i andled of M - one the rise Certification
Wir no Columbia County New Building Permit Application
Level 1
MIST. 44/16
For Office Use Only Application # 1810-59 Date Received 10/19 By D Permit # 3955 7
Zoning Official Date 10-24 Flood Zone HE Land Use RL Zoning RSF2
FEMA Map # 0293 D Elevation 110' MFE/// River N/A Plans Examiner 7.C. Date 10-24-18
Comprents Nud elevation certificate cet finished Construction
TO NOC 9 EH Proped or PA - 1-8ite Plan - State Road Info - Well letter - 911 Sheet - Parent Parcel #
□ Dev Permit # □ In Floodway Letter of Auth. from Contractor □ F W Comp. letter □ Owner Builder Disclosure Statement □ Land Owner Affidavit □ Ellisville Water □ App Fee Paid □ Sub VF Form
Septic Permit No. 16-0848         OR City Water         Fax         - 356_35.2696
Applicant (Who will sign/pickup the permit) Kevin Gray  Phone 386-755-6449
Address 792 SW Bascom Novis Dr. Late City PL 32025
Owners Name GLENN ANDRUS Phone 865-299-9967
911 Address 559 SW Brothers LN Lake City, FL 32025
Contractors Name Panal d Cittle Jr. Phone 376-961-0006
Address 631 SE Industrial Circle Late City, FL 30056
Contractor Email Tubular building Sytems & gmail com Include to get updates on this job.
Fee Simple Owner Name & Address Kharay 418 @ ma; 1. Com
Bonding Co. Name & Address
Architect/Engineer Name & Address MAYNE S. MOORE, RE 1009 E. AVE
Mortgage Lenders Name & Address No. 18 August, SC 2981
Circle the correct power company FL Power & Light Clay Elec. Suwannee Valley Elec. Duke Energy
Property ID Number 12-45-16-02942-002 Estimated Construction Cost \$13,437
Subdivision Name Cannon Creek Airpark Lot Block Unit Phase
Driving Directions from a Major Road Hwy 90 to Sisters welcome Bd (Seuth)
Left on Sy Brothers LN have is Davn on right
Construction of Steel Starage Bilding Commercial OR Residential
Proposed Use/Occupancy Strage Building Number of Existing Dwellings on Property
Is the Building Fire Sprinkled? If Yes, blueprints included Or Explain
Circle Proposed Culvert Permit or Culvert Waiver or D.O.T. Permit or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front Side Side Rear
Number of Stories Heated Floor Area Total Floor Area $900$ Acreage $3.28$
Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) DP 20-007
JU SATE WIREMIN 10.30.18
Page 1 of 2 (Both Pages must be submitted together.) Revised 7-1-15

Lh - Spoke to Kevin on 11-14-18 (Kevin said they would do flood verits)

#### **Columbia County Building Permit Application**

#### CODE: Florida Building Code 2017 and the 2014 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible lifigation and or fines.

1

Print Owners Name  Owners Signate	before any permit will be issued.
**If this is an Owner Builder Permit Application then, O	ONLY the owner can sign the building permit when it is issued.
	erstand and agree that I have informed and provided this ritten responsibilities in Columbia County for obtaining permit time limitations.  **Contractor's License Number C & (1262211)
Contractor's Signature	Columbia County Competency Card Number 2030
Affirmed under penalty of perjury to by the Contractor	and subscribed before me this <u></u> day of <u>OCTOBER</u> 20 <u>18</u>
Personally known or Produced Identification X	HEIDI MOORE NOTARY PUBLIC SEAL: STATE OF FLORIDA
State of Florida Notary Signature (For the Contractor)	Comm# FF929829

Page 2 of 2 (Both Pages must be submitted together.)

Comm# FF929829 Expires 10/21/2019

\*\*Property owners must sign here

Revised 7-1-17

#### SITE PLAN CHECKLIST

1) Property Dimensions 2) Footprint of proposed and existing structures (including decks), label these with existing addresses 3) Distance from structures to all property lines \_4) Location and size of easements \_5) Driveway path and distance at the entrance to the nearest property line 6) Location and distance from any waters; sink holes; wetlands; and etc. \_7) Show slopes and or drainage paths 8) Arrow showing North direction SITE PLAN EXAMPLE Revised 7/1/15 Show Your Road Name 809 OFOS KOSTO ZEGO 110 (My Property) MH (201) NOTE: This site plan can be copied and used 325 470 with the 911 498' Addressing Dept. 60 application forms. North 328 Loach freld EXBTITS Building Buldins

#### NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

12-45-16-02942-002

Clerk's Office Stamp

Inst: 201812021563 Date: 10/19/2018 Time: 8:35AM
Page 1 of 1 B: 1370 P: 2463, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD

Deputy Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

	of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.	
	1. Description of property (legal description): # 12-45-16-02942-002  a) Street (job) Address: 559 SW Graphus LN Lake City, FL 32025	
	a) Street (inh) Address: 599 St. Dorthe C. L. L. C.	
	2. General description of improvements: STEC	
	3. Owner Information or Lessee information if the Lessee contracted for the improvements:  a) Name and address: (2) (N) HOWAS  b) Name and address of fee simple titleholder (if other than owner)	
	c) Interest in property	
	A Continuou la Company	
	a) Name and address: Dunaled Little Jr 631 SE Industrial Circle Lake (1) b) Telephone No.: 386-961-0006	1, FL 32056
×	5. Surety Information (if applicable, a copy of the payment bond is attached):	
	a) Name and address:	
	o) Amount of Bond:	
	c) Telephone No.;	
X	6. Lender	
	a) Name and address:	
λ	<ol> <li>Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:</li> <li>a) Name and address:</li> </ol>	¥
	b) Telephone No.:	
į		
,	<ol><li>In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(I)(b), Fiorida Statutes:</li></ol>	
	a) Name:OF	
	b) Telephone No.:	
>	9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified):	
	WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF	
	COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13,	
	FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A	
	NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE 10B SITE BEFORE THE FIRST	
	INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE	
	COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.	
	STATE OF FLORIDA	
	COUNTY OF COLUMBIA 10.	
	Signature of Owner & Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager	
	5.6. State of State of Control of	
	Printed Name and Signatory's Title/Office	
	The foregoing instrument was acknowledged before me, a Florida Notary, this day of, 20, by:	
	by:	
	as	
	(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)	
	Personally Known OR Produced Identification Type	
	· M. O M.	
	Notary Signature Notary Stamp or Seal: HEIDI MOO	RE



## **Columbia County Property Appraiser**

Parcel: (<<) 12-4S-16-02942-002 (>>)

G1001: 6 12 40 10 02042 002 6							
Owner & Property Info Result 1 of 24							
Owner	ANDRUS GLENN D & TERRY G 559 SW BROTHERS LN LAKE CITY, FL 32025						
Site	559 BROTHERS LN, LAKE CITY						
Description*	COMM NE COR OF SE1/4, RUN S 1411 FT FOR POB, CONT S 285.49 FT, W 524.82 FT, N 284.38 FT, E 524.86 FT TO POB, EX COMM AT NE COR OF SE1/4, RUN S 1411 FT FOR POB, CONT S 285.49 FT, W 46 FT, NW'RLY TO POB. ORB 808-1118, (GRANT OF ESMNTS IN ORB 1280-2100, 1280more>>>						
Area	3.28 AC S/T/R 12-4S-16						
Use Code**	SINGLE FAM (000100)	Tax District	2				

\*The <u>Description</u> above is not to be used as the Legal Description for this parcel in any legal transaction.

\*The <u>Use Code</u> is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Ass	sessment Values			
2017 Cert	tified Values	2018 Working Values		
Mkt Land (1)	\$74,920	Mkt Land (1)	\$74,920	
Ag Land (0)	\$0	Ag Land (0)	\$0	
Building (1)	\$170,504	Building (1)	\$175,988	
XFOB (1)	\$2,500	XFOB (1)	\$2,500	
Just	\$247,924	Just	\$253,408	
Class	\$0	Class	\$0	
Appraised	\$247,924	Appraised	\$253,408	
SOH Cap [?]	\$0	SOH Cap [?]	\$0	
Assessed	\$247,924	Assessed	\$253,408	
Exempt	\$0	Exempt	\$0	
Total Taxable	county:\$247,924 city:\$247,924 other:\$247,924 school:\$247,924	Territoria de la constitución de	county:\$253,408 city:\$253,408 other:\$253,408 school:\$253,408	



2017 Tax Roll Year updated: 8/1/2018

▼ Sales History							
Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode	
12/26/2014	\$270,000	1287/0398	WD	I	Q	01	
7/25/1995	\$37,900	808/1118	WD	V	Q		
1/1/1978	\$11,400	394/0658	03	V	Q		

▼ Building Characteristics									
Bldg Sketch	Bldg Item	Bldg Desc*	Year Bit	Base SF	Actual SF	Bldg Value			
Sketch	1	SINGLE FAM (000100)	2000	2000	6448	\$175,988			

\*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

▼ Extra Features & Out Buildings (Codes)										
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)				
0166	CONC,PAVMT	2000	\$2,500.00	1.000	50 x 50 x 0	(000.00)				

Land Breakdow	m				
Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
000100	SFR (MKT)	3.280 AC	1.00/1.00 1.00/0.90	\$22,841	\$74,920

Search Result: 1 of 24

© Columbia County Property Appraiser | Jeff Hampton | Lake City, Florida | 386-758-1083

by: GrizzlyLogic.com

## STATE OF FLORIDA DEPARTMENT OF HEALTH APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 18-88

--PART II - SITEPLAN -----Scale: Each block represents & feet and 4 Halls WELL 12.5 122 PROBLET LICH DRIVEWA Notes: THIS PLAN ILLUSTRATES APPROP I ACRE OF 3.3 ACRE PROPE Site Plan submitted by: Date 10/24/18 Plan Approved Not Approved

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6 001, FAC (Stock Number: 5744-002-4015-6)

Page 2 of 4

(o/vmb/a County Health Department

#### Legend

#### 2018Aerials

**Parcels** 

Addresses

#### Roads

Roads

others

Dirt 🔮

Interstate

Main

Other

Paved

Private

2018 Flood Zones 0.2 PCT ANNUAL CHANCE

DA

AE

AH

2018 Base Flood Elevations **DEFAULT** 

**Base Flood Elevations** 

2018 Base Flood Elevation Zones

0.2 PCT ANNUAL CHANCE

O AE

AH

## Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Feb 04 2020 12:17:23 GMT-0500 (Eastern Standard Time)



#### **Parcel Information**

Parcel No: 12-4S-16-02942-002

Owner: ANDRUS GLENN D & TERRY G

Subdivision:

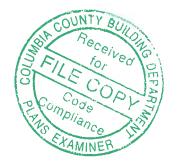
Lot:

Acres: 3.23822737 Deed Acres: 3.28 Ac

District: District 5 Tim Murphy Future Land Uses: Residential - Low

Flood Zones: AE, 0.2 PCT ANNUAL CHANCE FLOOD HAZARD

Official Zoning Atlas: RSF-2



#### CAROL CHADWICK, P.E.

Civil Engineer
1208 S.W. Fairfax Glen
Lake City, FL 32025
307.680.1772
ccpewyo@gmail.com

March 4, 2020

## ONE FOOT RISE CERTIFICATION

Owner:

Glenn # Terry Andrus

Property Address:

559 S.W. Brothers Lane

Lake City, FL 32025

Property Description:

Section 12, Township 4 South, Range 16 East

Columbia County, Florida

Proposed Structure in

Floodway:

20' x 48' structure

Elevation of 100-year flood: 111.1 feet (FEMA)

Community Panel:

12023 0293D

I hereby certify that the construction of the proposed structure will not obstruct flow or cause more than a 1.00 foot rise in the 100-year flood elevation.

Carol Chadwick, P.E.

CC Job FL20031



### STRUCTURAL DESIGN

# ENCLOSED BUILDING EXPOSURE B

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

18 December 2017 Revision 4 M&A Project No. 16022S/17300S

Prepared for:

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

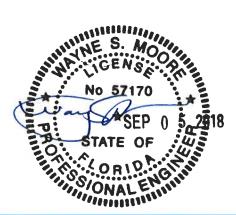


Moore and Associates Engineering and Consulting, Inc. 1009 East Avenue North Augusta, SC 29841

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



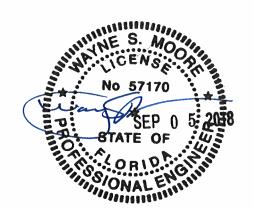




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MOORE AND A ENGINEERING AND CONSULTING THE UNMUTHORIZED REPRODUCTIONS STRICTLY PROPRIETED AND BE SUBJECT TO LEGAL ACTION.	CONSULTING, INC.	DRAWN BY: LT  CHECKED BY: PDH  PROJECT MGR: WSM  CLIENT: TBS	30'-0"x20'-0	JLAR BUILDING SYSTEMS D" ENCLOSED BUILDING EXP. B E SEAL COVER SHEET  JUB NO: 160225/17300S  DVG. NO: SK-3  REV: 4

## DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET
SHEET 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 6A	TYPICAL RAFTER COLUMN CONNECTION DETAILS (LACED COLUMN)
SHEET 6B	TYPICAL RAFTER COLUMN CONNECTION DETAILS (DOUBLE COLUMN)
SHEET 60	TYPICAL RAFTER COLUMN CONNECTION DETAILS (SINGLE COLUMN)
SHEET 7	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOW RAFTER)
SHEET 8A	TYPICAL RAFTER COLUMN CONNECTION DETAILS (DOUBLE COLUMN)
SHEET 8B	TYPICAL RAFTER COLUMN CONNECTION DETAILS (SINGLE COLUMN)
SHEET 9A	BASE RAIL ANCHORAGE OPTIONS
SHEET 9B	OPTIONAL FOUNDATION ANCHORAGE
SHEET 10	TYPICAL END WALL AND SIDE WALL OPENING FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 11	TYPICAL END WALL AND SIDE WALL OPENING FRAMING SECTIONS (BOW RAFTER)
SHEET 12	WALL OPENING DETAILS
SHEET 13	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 14	LEAN-TO OPTIONS (BOW RAFTER)
SHEET 15	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION
SHEET 16	OPTIONAL DOOR HEADER



MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	TUBULAR BUILDING SYSTEMS 30'-0"x20'-0" ENCLOSED BUILDING EXP. B		
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BE SUBJECT TO LEGAL ACTION	CLIENT: TBS	ZHY. S	DAC NO 2K-3	REV: 4

#### 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 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2012 INTERNATIONAL BUILDING CODE (IBC), AND 2015 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS: = 1.5 PSF A) DEAD LOAD B) LIVE LOAD = 12 PSF 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 = 5.0 FEET.
- 5 HIGH ULTIMATE WIND SPEED 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET.
- 6. LOW HAZARD RISK CATEGORY I (WIND).
- 7. WIND EXPOSURE CATEGORY B.
- 8. 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 DTHERWISE NOTED).
- 9. AVERAGE FASTENER SPACING DN-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9° OR END = 6°, (MAX.)
- 10. 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.
- 11 GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 12. GROUND ANCHORS (SDIL NAILS) CONSIST OF #4 REBAR W/WELDED NUT × 30' LONG IN SUITABLE SDIL CONDITIONS MAY BE USED FOR LOW ( < 108 MPH NOMINAL) WIND SPEEDS ONLY. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USE IN UNSUITABLE SDILS AS NOTED.
- 13 OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND MUST BE USED FOR HIGH WIND SPEEDS
- 14. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE

SDIL SITE CLASS = D RISK CATEGORY 1/11/111

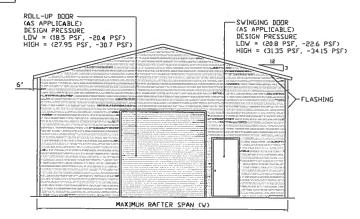
R= 3.25 I<sub>E</sub>= 1.0 Sps= 1522 V= CsW

 $S_{DI} = 0.839$ 

No 57170

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	TUBULAR BUILDING SYSTEMS 30'-0"x20'-0" ENCLOSED BUILDING EXP. B		
THIS DOCUMENT IS STRICTLY PROMIDITED AND ANY INFRINGENENT THEREUPON MAY			SCALE: NTS	JOB NO: 16022\$/17300\$

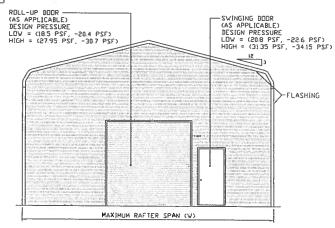
#### BOX EAVE FRAME RAFTER ENCLOSED BUILDING



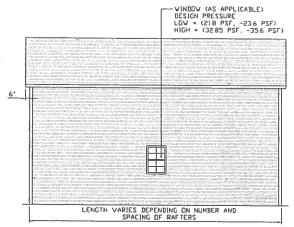
#### TYPICAL END ELEVATION-HORIZONTAL ROOF

SCALE: NTS

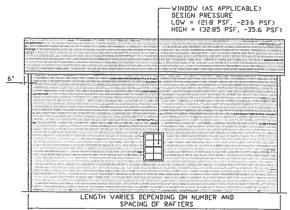
#### BOW FRAME RAFTER ENCLOSED BUILDING



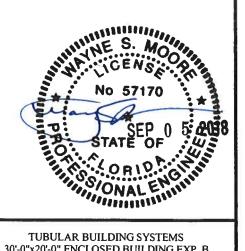
## TYPICAL END ELEVATION SCALE NTS



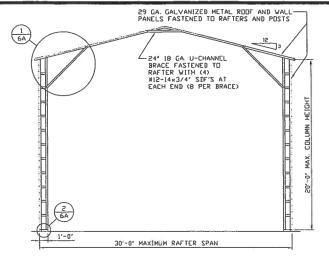
TYPICAL SIDE ELEVATION SCALE: NTS



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

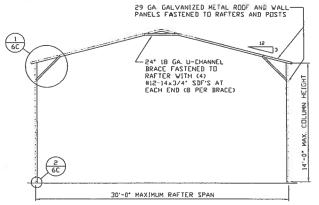


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BE SUBJECT TO LEGAL ACTION	CLIENT: TBS	SHT. 4	DVG. NO: SK-3	REV. 4	

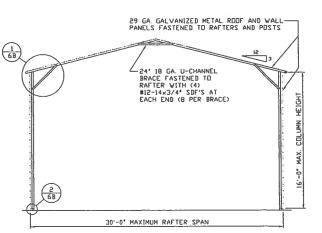


#### TYPICAL RAFTER/COLUMN END FRAME SECTION

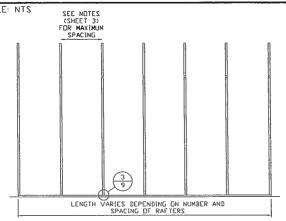
SCALE: NTS



## TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



#### TYPICAL RAFTER/COLUMN END FRAME SECTION



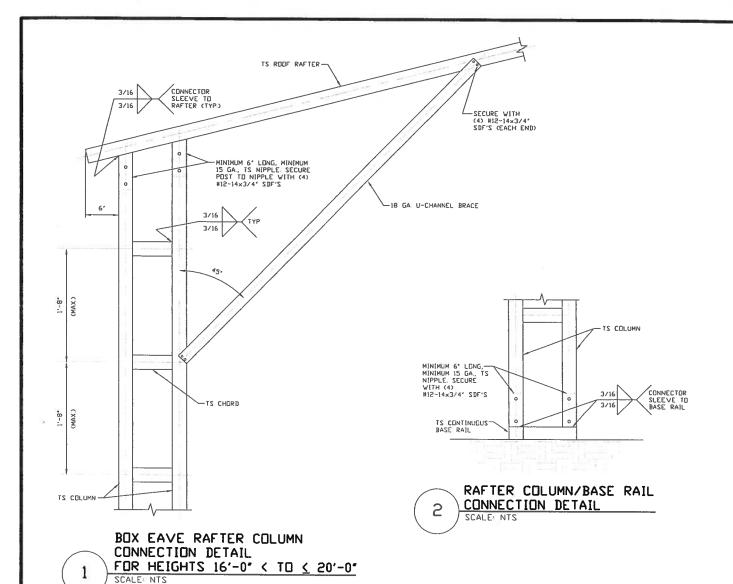
## TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

No 57170
SEP 0 5 2018
STATE OF
ONAL ENGINEERINGSONAL ENGI

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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	DRAWN BY: LT CHECKED BY: PDH	TUBULAR BUILDING SYSTEMS 30'-0"x20'-0" ENCLOSED BUILDING EXP					
_	PROJECT MGR: VSM	DATE: 12-18-17	SCALE: NTS		ND: 225/173005		
-	CLIENT: TBS	SHT. 5	DVG. NO: SK-3		REVA 4		



18 GA U-CHANNEL BRACE
FASTENED TO THE COLUMN
AND RODE BEAM, WITH (4)
HI2-14x3/4' SDF'S AT EACH
END (8 PER BRACE)

BRACE SECTION
SCALE: NTS

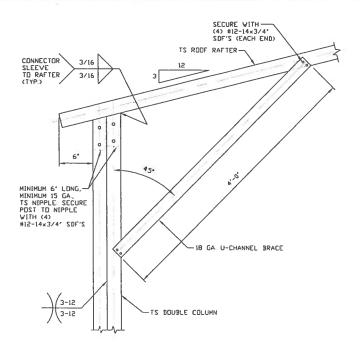
No 57170

SEP 0 5 20 B

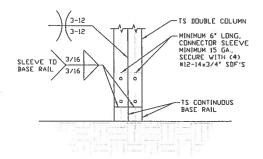
STATE OF

ORIO CITAL

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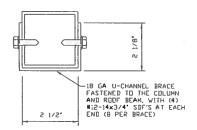


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0' < TO < 16'-0' SCALE NTS



RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

2

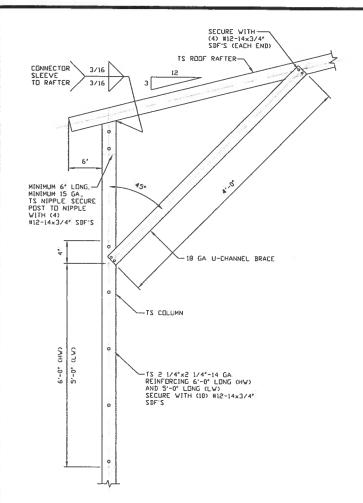


#### BRACE SECTION

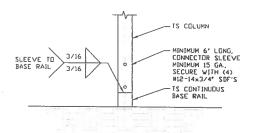
SCALE: NTS



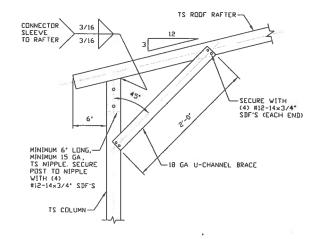
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BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 14'-0"



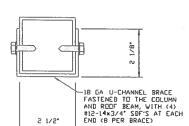
2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS 

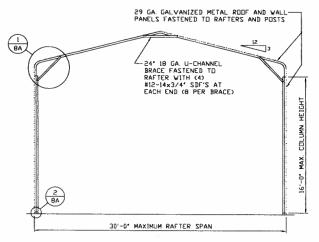
SCALE: NTS

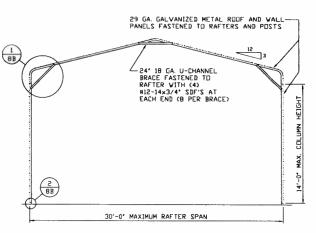


BRACE SECTION
SCALE: NTS



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DE SUBJECT TO LEGAL ACTION	CLIENT: TBS	ISHT. 6C	DAC NO 2K-3	REV: 4		

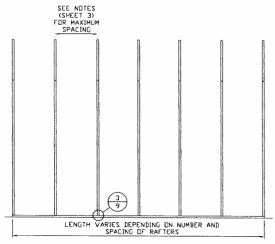




#### TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

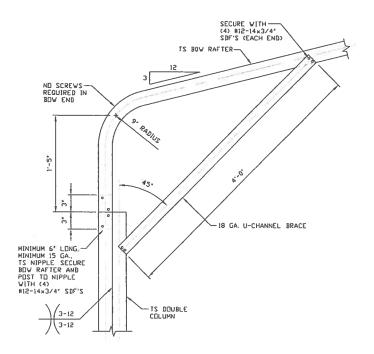


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

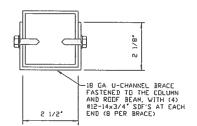
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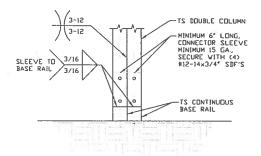
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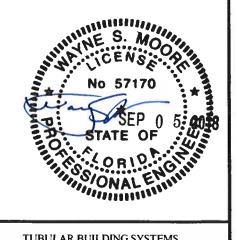
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 14'-0' < TO < 16'-0'
SCALE: NTS



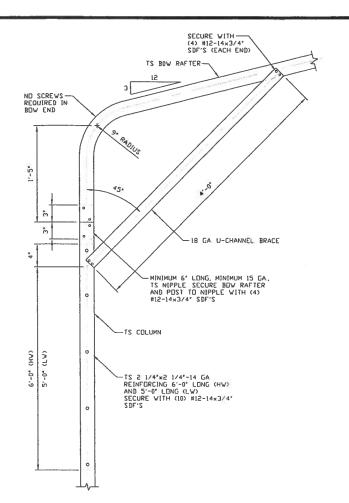
BRACE SECTION



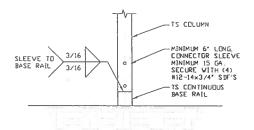
RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



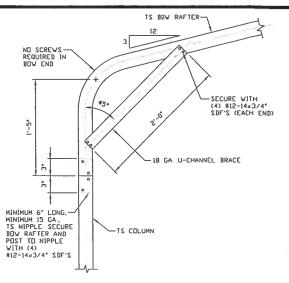
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BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 10'-0" < TO < 14'-0"
SCALE: NTS



2 RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

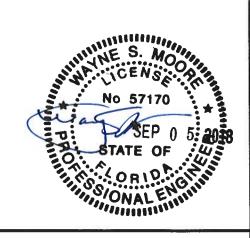


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'-0"

18 GA U-CHANNEL BRACE
FASTENCD TO THE COLUMN
AND RODF BEAM, VITH (4)
H12-14×3/4\* SDF'S AT EACH
END (8 PER BRACE)

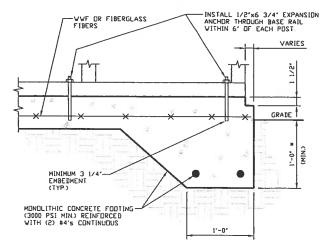
BRACE SECTION SCALE: NTS

1B



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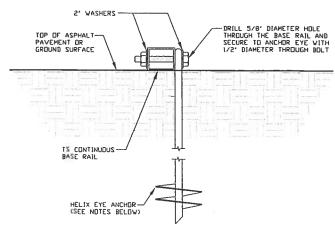
#### BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED





#### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS (MINIMUM ANCHOR EDGE DISTANCE IS 4') \* COORDINATE WITH LOCAL CODES/ORD



3B

#### GROUND BASE HELIX ANCHORAGE SCALE: NTS (CAN BE USED FOR ASPHALT)

#### **GENERAL NOTES**

#### CONCRETE:

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

#### COVER OVER REINFORCING STEEL:

FOR FDUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

3 INCHES IN FUUNDATIONS WHERE THE CUNCRETE 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:

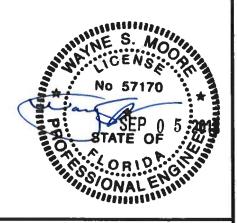
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

#### REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- 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

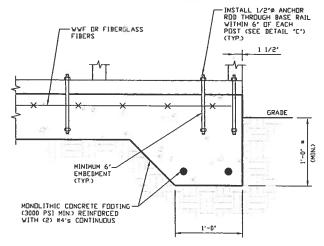
#### HELIX ANCHOR NOTES:

- 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 INCH EMBEDMENT.
- 2 FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT.
- 3 FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT.
- 4. FOR LODSE 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.



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#### OPTIONAL FOUNDATION ANCHORAGE FOR LOW & HIGH WIND SPEED



1A

#### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS (MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2") \* COORDINATE WITH LOCAL CODES/ORD

#### **GENERAL NOTES**

#### CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH DF 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 AGAINS!
AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO
THE EARTH OR WEATHER, AND 1 1/2 INCHES ELSEWHERE.

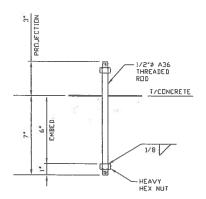
#### REINFORCING STEFL:

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.
REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT

BE FIELD BENT



1C

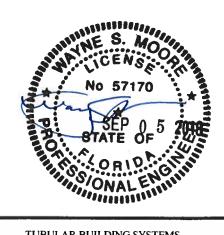
SCALE: NTS

ANCHOR ROD THROUGH BASE RAIL DETAIL

INSTALL 1/2'® ANCHOR—
RDB THROUGH BASE RAIL
WITHIN 6' DF EACH
POST (SEE DETAIL 'C')
(TYP) WWF DR FIBERGLASS FIBERS GRADE CMIMO 1'-0" MINIMUM 6 EMBEDMENT MDNOLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2) #4's CONTINUOUS

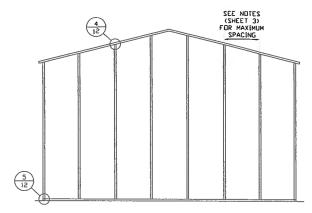
CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE 1B

> (MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2") \* COORDINATE WITH LOCAL CODES/ORD



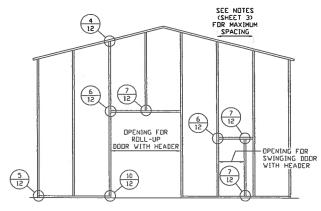
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#### **BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS**



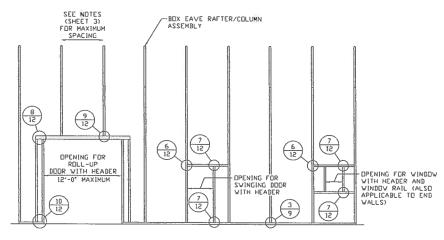
## TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



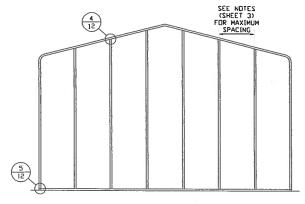
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS



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#### **BOW RAFTER END WALL AND SIDE WALL OPENINGS**



## TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SEE NOTES (SHEET 3)
FOR MAXIMUM
SPACING

OPENING FOR
ROLL-UP
DOOR WITH HEADER

TO THE SWINGING DOOR
WITH HEADER

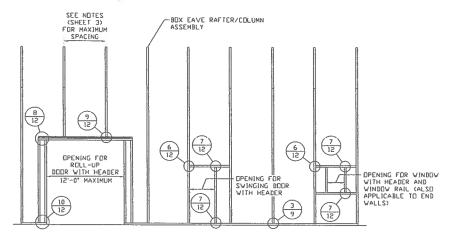
TO THE SWINGING DOOR
WITH HEADER

TO THE SWINGING DOOR
WITH HEADER

TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

SCALE: NTS



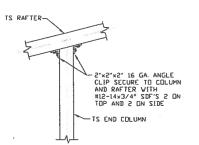
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS



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#### BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



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

TS COLUMN
OR END COLUMN CY.2'x2'x2' 16 GA ANGLE
CLIP SECURE TO COLUMN
AND EITHER TOP OF
HEADER, OR BOTTOM OF
WINDOW RAIL WITH
#12-14x3/4' SDF'S TS HEADER OR

END COLUMN/RAFTER CONNECTION DETAIL 4

END COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

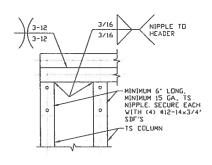
HEADER OR WINDOW RAIL TO COLUMN CONNECTION DETAIL SCALE: NTS

6

TS TRUSSED RAFTER CHORD, OR HEADER TS END COLUMN — OR DOOR WINDOW FRAME POST TS HEADER, BASE RAIL, OR WINDOW RAIL

2"x2"x2" 16 GA. ANGLE CLIP SECURE TO COLUMN (EACH SIDE) AND RAFTER CHDRD/RAIL WITH #12-14x3/4" SDF'S 2 DN BOTTOM AND 2 DN SIDE

NDTE AT ROLL-UP DOOR DPENINGS, POST SHOULD BE FLUSH WITH RAIL END CLIP POST TO RAIL ONLY ON SIDE DPPOSITE THE DPENING



TS COLUMN NIPPLE TO HEADER 3/16 MINIMUM 6' LONG, MINIMUM 15 GA., TS NIPPLE SECURE WITH (4) 3/16 #12-14x3/4" SDF'S IS DOUBLE HEADER

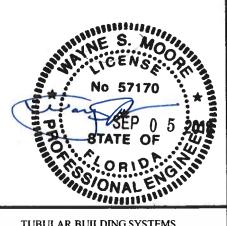
COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

DOUBLE HEADER/COLUMN CONNECTION DETAIL 8 SCALE: NTS

COLUMN/DOUBLE HEADER CONNECTION DETAIL 9 SCALE: NTS

TS COLUMN MINIMUM 6' LÜNG, MINIMUM 15 GA, TS NIPPLE- SECURE EACH WITH (4) #12-14x3/4' NIPPLE TO 3/16 BASE RAIL 3/16 3/16 TS CONTINUOUS BASE RAIL

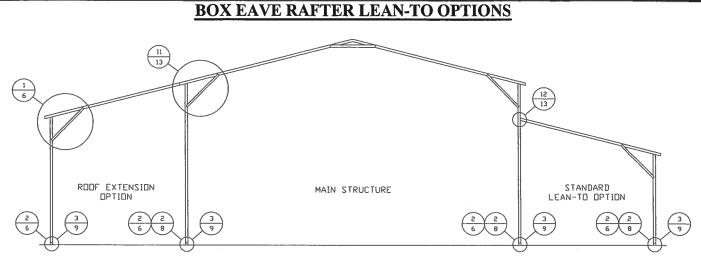
COLUMN/BASE RAIL CONNECTION DETAIL 10 SCALE: NTS



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ENGINEERING AND CONSULTING, INC.

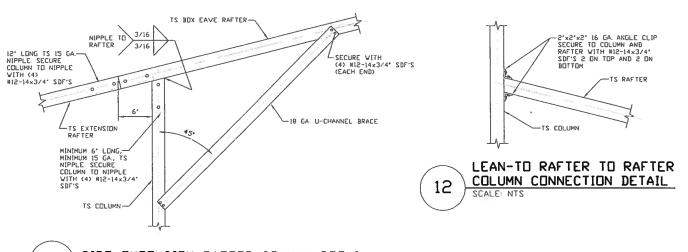
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CLIENT: TBS	SHT. 12	DAC NO: 2K-3	REV.: 4		



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

SCALE: NTS MAXIMUM WIDTH DF SINGLE MEMBER RAFTER LEAN-TD IS 16'-0'.

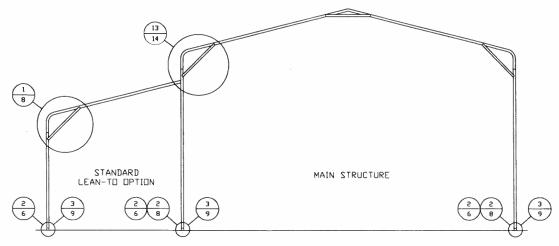


11A SIDE EXTENSION RAFTER/COLUMN DETAIL



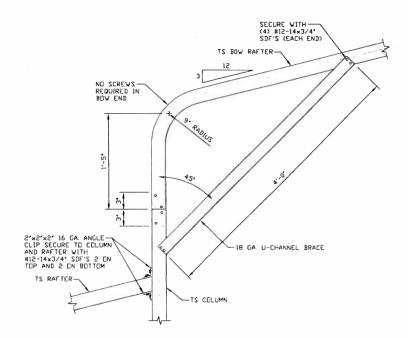
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### **BOW RAFTER LEAN-TO OPTIONS**



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

SCALE: NTS MAXIMUM WIDTH OF SINGLE MEMBER RAFTER LEAN-TO IS 16'-0'.

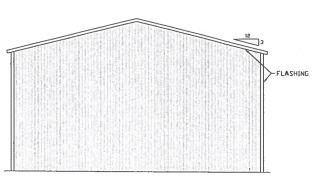


13 SIDE EXTENSION RAFTER/COLUMN DETAIL

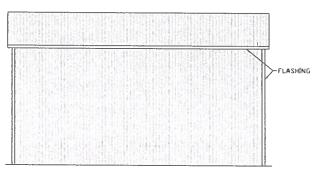


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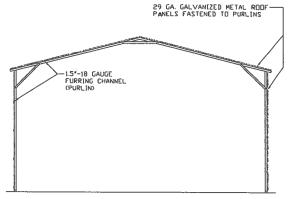
#### **BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION**



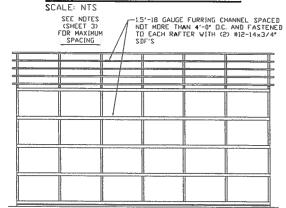
TYPICAL END ELEVATION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS



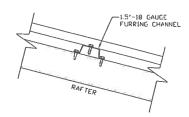
TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS



## TYPICAL SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION SCALE: NTS



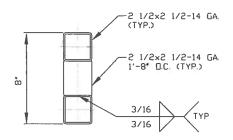
ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



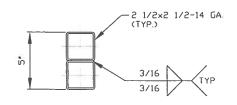
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT		TUBULAR BUILDING SYSTEMS 30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
	CHECKED BY: PDH	-22 5				
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BE SUBJECT TO LEGAL ACTION	CLIENT: TRS	SHT. 15	DAC NO 2K-3	REV. 4		

### **OPTIONAL DOOR HEADER**



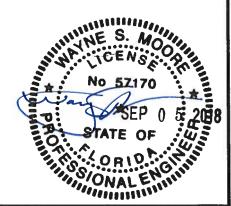
HEADER DETAIL FOR DOOR □PENINGS 12'-0" < LENGTH < 15'-0"

SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS LENGTH & 12'-0'

SCALE: NTS



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