

Columbia County New Building Permit Application

For Office Use Only Application # 44825 Date Received 3/24 By LH Permit # 39682

Zoning Official LW/Ut Date 3-30-20 Flood Zone X Land Use RLO Zoning RSF-2

FEMA Map # Elevation MFE River Plans Examiner J.C. Date 4-6-20

Comments

- NOI, Deed or PA, Site 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. 20-0248 OR City Water Fax

Applicant (Who will sign/pickup the permit) Brittany Dunn, Phone 478.340.6760

Address 3454 SW CR242, Lake City, FL 32024

Owners Name Delta Omega Properties, Inc. Phone 786.397.5288

911 Address 590 SW Chesterfield Circle, Lake City, FL 32024

Contractors Name James "Mark" Lipscomb Phone 786.752.6842

Address 184 SW Dominos Way, Ste. 104, Lake City, FL 32025

Contractor Email lipscomb04@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address n/a

Bonding Co. Name & Address n/a

Architect/Engineer Name & Address Nicholas Geisler 1758 NW Brown Rd, Lake City FL 32055

Mortgage Lenders Name & Address n/a

Circle the correct power company FL Power & Light, Clay Elec., Suwannee Valley Elec., Duke Energy

Property ID Number 24.4S.16.031117-144 Estimated Construction Cost \$160,000 w

Subdivision Name Crosswinds Lot 44 Block Unit Phase 1

Driving Directions from a Major Road Take Sisters Welcome road to a L on Kicklighter Terrace to Cannon creek Dr to a right on Chesterfield circle-go past Erksine- 6th lot on left

Construction of Single family residence Commercial OR Residential

Proposed Use/Occupancy residence Number of Existing Dwellings on Property 0

Is the Building Fire Sprinkled? n/a 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 50ft Side 23-4 Side 23-4 Rear 102-8

Number of Stories 1 Heated Floor Area 1735 Total Floor Area 2431 Acreage .5

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) JW sent email 4.9.20 4.17.20

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 litigation and or fines.

J. Rhett Smithley
Print Owners Name

[Signature]
Owners Signature

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

James Lipscomb
Contractor's Signature

✓ Contractor's License Number CBC1253543
Columbia County
Competency Card Number 000496

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 16 day of March 2020.

Personally known or Produced Identification

[Signature]
State of Florida Notary Signature (For the Contractor)

SEAL:



SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 44825 JOB NAME Crosswinds - Lot 44

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

NOTE: It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.

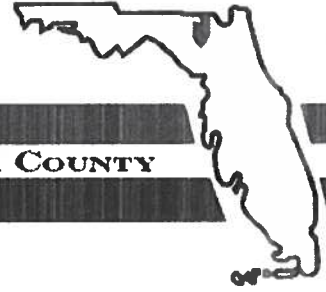
Use website to confirm licenses: <http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx>

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

Violations will result in stop work orders and/or fines.

ELECTRICAL <input checked="" type="checkbox"/>	Print Name <u>Mervin Hines</u> Signature <u>Mervin Hines</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# <u>001647</u>	Company Name: <u>Hines Electric</u> License #: <u>EC13003393</u> Phone #: <u>352.494.5022</u>	
MECHANICAL/A/C <input checked="" type="checkbox"/>	Print Name <u>David Hall</u> Signature <u>David Hall</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# <u>000568</u>	Company Name: <u>Halls AC</u> License #: <u>CAC057424</u> Phone #: <u>786.755.9792</u>	
PLUMBING/GAS <input checked="" type="checkbox"/>	Print Name <u>Cody Barrs</u> Signature <u>Cody Barrs</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# <u>000715</u>	Company Name: <u>Barrs Plumbing</u> License #: <u>CFC1427145</u> Phone #: <u>786.752.8056</u>	
ROOFING <input checked="" type="checkbox"/>	Print Name <u>Kevin Bedenbaugh</u> Signature <u>Kevin B</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# <u>001056</u>	Company Name: <u>Plumb Level Construction</u> License #: <u>CCC1329482</u> Phone #: <u>786.365.5264</u>	
SHEET METAL <input type="checkbox"/>	Print Name _____ Signature _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
FIRE SYSTEM/SPRINKLER <input type="checkbox"/>	Print Name _____ Signature _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
SOLAR <input type="checkbox"/>	Print Name _____ Signature _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
STATE SPECIALTY <input type="checkbox"/>	Print Name _____ Signature _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# _____	Company Name: _____ License #: _____ Phone #: _____	

District No. 1 - Ronald Williams
District No. 2 - Rocky Ford
District No. 3 - Bucky Nash
District No. 4 - Toby Witt
District No. 5 - Tim Murphy



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

To maintain the county wide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for addressing and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Services Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County

Date/Time Issued: **3/13/2020 6:06:28 PM**
Address: **590 SW CHESTERFIELD Cir**
City: **LAKE CITY**
State: **FL**
Zip Code **32024**

Parcel ID **03117-144**

REMARKS: Address Verification.

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION AND ACCESS INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION AND/OR ACCESS INFORMATION BE FOUND TO BE IN ERROR OR CHANGED, THIS ADDRESS IS SUBJECT TO CHANGE.

Address Issued By: **Signed:/ Matt Crews**

Columbia County GIS/911 Addressing Coordinator

**COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT**

263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com



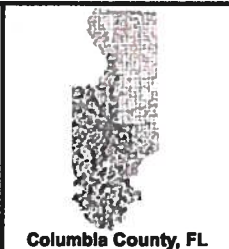
Columbia County Property Appraiser Jeff Hampton | Lake City, Florida | 386-758-1083

PARCEL: 24-4S-16-03117-144 | TIMBERLAND (005500) | 0.5 AC
 LOT 44 CROSSWINDS S/D PHASE 1. QC 1162-452

Owner: DELTA OMEGA PROPERTIES INC
 3454 SW CR 242
 LAKE CITY, FL 32024
Site: 590 CHESTERFIELD CIR,
Sales Info: NONE

2020 Working Values			
Mkt Lnd	\$0	Appraised	\$192
Ag Lnd	\$192	Assessed	\$192
Bldg	\$0	Exempt	\$0
XFOB	\$0	county:	\$192
Just \$15,500		city:	\$192
		other:	\$192
		school:	\$192
		Total Taxable	

NOTES:



This information, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office.

GrizzlyLogic.com

Legend

SRWMD Wetlands



LidarElevations



Parcels

Lake City Limits



2018 Flood Zones

0.2 PCT ANNUAL CHANCE



A

AE

AH

Roads

Roads

others

Dirt

Interstate

Columbia County, FLA - Building & Zoning Property Map

Printed: Mon Mar 30 2020 10:43:07 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 24-4S-16-03117-144

Owner: DELTA OMEGA PROPERTIES INC

Subdivision: CROSSWINDS PHASE 1

Lot: 44

Acres: 0.49610424

Deed Acres:

District: District 3 Bucky Nash

Future Land Uses: Residential - Low

Flood Zones:

Official Zoning Atlas: RSF-2

All data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance, and update.

101.00'

15'-0" REAR SETBACK

RHETT SMITHEY
MODEL 1735
LOT 44, CROSSWINDS

APPROX.
WELL
LOCATION

23'-4"

54'-4"

23'-4"

215.00'

10'-0" SIDE SETBACK

10'-0" SIDE SETBACK

215.00'

62'-4"

50'-0"

DRIVEWAY

20'-0" FRONT SETBACK

SEPTIC
TANK

DRAIN FIELD

101.00'

SCALE: 1" = 25'-0"

SW CHESTERFIELD CIRCLE

NOTICE OF COMMENCEMENT

Clerk's Office Stamp

Tax Parcel Identification Number:

24.49.16.03117.144

Inst: 202012006891 Date: 03/24/2020 Time: 4:13PM
Page 1 of 1 B: 1408 P: 1820, P.DeWitt Cason, Clerk of Court
Columbia, County, By: PT
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.

- 1. Description of property (legal description): Lot 44 Crosswinds SID Phase I, GC 1152-452
a) Street (Job) Address: 590 Chestertield Circle, Lake City, FL
2. General description of improvements: Single family residence
3. Owner Information or Lessee Information if the Lessee contracted for the improvements:
a) Name and address: Delta Omega Properties 3454 SW CR 242, Lake City, FL 32024
b) Name and address of fee simple titleholder (if other than owner): NA
c) Interest in property: 100%
4. Contractor Information
a) Name and address: James M Lipscomb 1945W Dominos Way, Ste. 104, Lake City, FL
b) Telephone No.: 386.752.6042
5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address: NA
b) Amount of Bond: NA
c) Telephone No.: NA
6. Lender
a) Name and address: NA
b) Phone No.:
7. 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:
a) Name and address: NA
b) Telephone No.:
8. 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(1)(b), Florida Statutes:
a) Name: NA 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): NA

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 JOB 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]
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

James Rhett Smithley - Director
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 16 day of March 2020 by:

J. Rhett Smithley as owner/authorized agent/director for Delta Omega Properties, Inc.
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known [checked] OR Produced Identification Type

Notary Signature [Signature]

Notary Stamp or Seal BRITTANY D WATSON
MY COMMISSION # GG014437
EXPIRES July 21, 2020



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Detail By Document Number](#) /

Detail by Entity Name

Florida Profit Corporation

DELTA OMEGA PROPERTIES, INC.

Filing Information

Document Number P04000026348
FE/EIN Number 20-0832353
Date Filed 02/10/2004
State FL
Status ACTIVE
Last Event REINSTATEMENT
Event Date Filed 09/28/2010

Principal Address

3484 SW CR 242
 LAKE CITY, FL 32024

Changed: 03/25/2013

Mailing Address

3484 SW CR 242
 LAKE CITY, FL 32024

Changed: 03/25/2013

Registered Agent Name & Address

SMITHEY, JAMES R
 3484 SW CR 242
 LAKE CITY, FL 32024

Address Changed: 03/25/2013

Officer/Director Detail

Name & Address

Title D

SMITHEY, JAMES R
 3484 SW CR 242
 LAKE CITY, FL 32024

Title D

SMITHEY, JAMES R

SMI INC, BRYAN B
1490 NW BROWN RD
LAKE CITY, FL 32055

Annual Reports

Report Year	Filed Date
2018	01/25/2018
2019	02/27/2019
2020	01/29/2020

Document Images

01/29/2020 -- ANNUAL REPORT	View image in PDF format
02/27/2019 -- ANNUAL REPORT	View image in PDF format
01/25/2018 -- ANNUAL REPORT	View image in PDF format
03/15/2017 -- ANNUAL REPORT	View image in PDF format
02/04/2016 -- ANNUAL REPORT	View image in PDF format
02/17/2015 -- ANNUAL REPORT	View image in PDF format
01/11/2014 -- ANNUAL REPORT	View image in PDF format
03/25/2013 -- ANNUAL REPORT	View image in PDF format
02/20/2012 -- ANNUAL REPORT	View image in PDF format
01/07/2011 -- ANNUAL REPORT	View image in PDF format
09/28/2010 -- REINSTATEMENT	View image in PDF format
03/26/2009 -- ANNUAL REPORT	View image in PDF format
09/23/2008 -- ANNUAL REPORT	View image in PDF format
04/23/2008 -- ANNUAL REPORT	View image in PDF format
04/13/2007 -- ANNUAL REPORT	View image in PDF format
01/03/2006 -- ANNUAL REPORT	View image in PDF format
02/14/2005 -- ANNUAL REPORT	View image in PDF format
02/10/2004 -- Domestic Profit	View image in PDF format

A&B Well Drilling, Inc.

5673 NW Lake Jeffery Road
Lake City, FL 32055
Telephone: (386) 758-3409
Cell: (386) 623-3151
Fax: (386) 758-3410
Owner: Bruce Park

April 16, 2020

To: Columbia County Building Department

Description of Well to be installed for Customer _____ Lipscome Const _____

Located @ Address: ___ Lot 44 Cross Winds Sub ___

1 HP 20 GPM submersible pump, 1 1/4" drop pipe, 85 gallon captive tank, and backflow prevention.
With SRWMD permit.

 Bruce Park

Sincerely,
Bruce N. Park
President



STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 20-0248
DATE PAID: 3/16/20
FEE PAID: 310.00
RECEIPT #: 1425876

APPLICATION FOR:

New System Existing System Holding Tank Innovative
 Repair Abandonment Temporary

APPLICANT: Delta Omega Properties Inc

AGENT: ROCKY FORD, A & B CONSTRUCTION

TELEPHONE: 386-497-2311

MAILING ADDRESS: 546 SW Dortch Street, FT. WHITE, FL, 32038

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3) (m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 44 BLOCK: Ph 1 SUB: Crosswinds PLATTED:

PROPERTY ID #: 24-4S-16-03117-144 ZONING: I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: .5 ACRES WATER SUPPLY: PRIVATE PUBLIC <=2000GPD >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: 590 Chesterfield Cir Lake City FL

DIRECTIONS TO PROPERTY: 90 West Left on Sisters Welcome Rd Left on SW Kicklighter Left on Cannon Creek Right on Chesterfield Circle to address on Left

BUILDING INFORMATION

RESIDENTIAL COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SF Residential	3	1735	
2				
3				

Floor/Equipment Drains Other (Specify)

SIGNATURE: William D. Bishop II

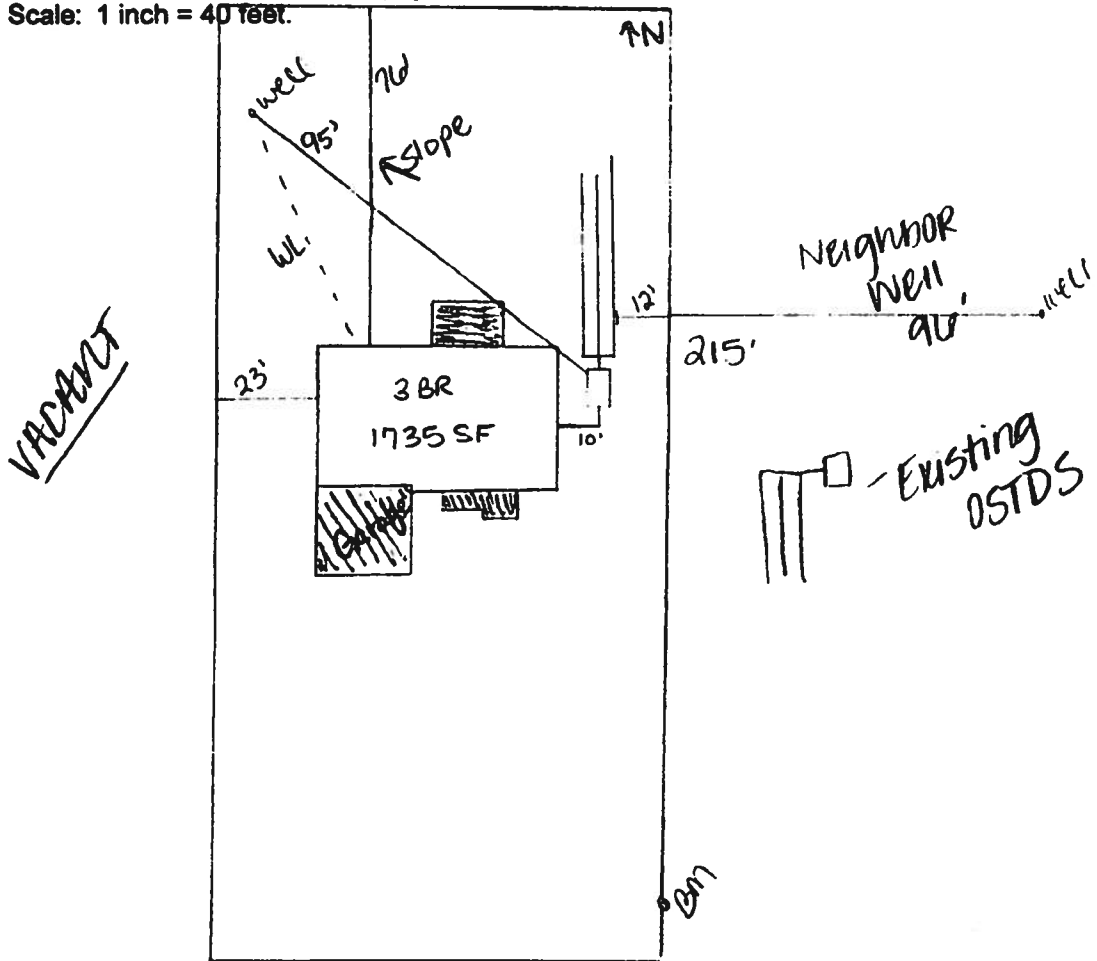
DATE: 3/18/2020

STATE OF FLORIDA
 DEPARTMENT OF HEALTH
 APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 20-0248

Delta Omega Prop. PART II - SITEPLAN
 101'

Scale: 1 inch = 40 feet.



Notes: SW Chesterfield Cir.

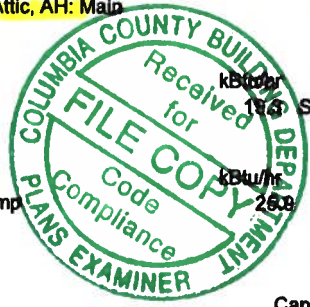
Site Plan submitted by: William A. Bishop II MASTER CONTRACTOR
 Plan Approved Not Approved _____ Date 3/18/2020
 By [Signature] County Health Department
3/30/20
ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 1735 - Lot 44 Crosswinds Street: City, State, Zip: Lake City, FL, Owner: Design Location: FL, Gainesville	Builder Name: Rhett Smithey Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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Glass/Floor Area: 0.122	Total Proposed Modified Loads: 45.88	PASS
	Total Baseline Loads: 47.59	


I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: [Signature]
 DATE: 3/12/2020

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: [Signature]
 DATE: 3/12/2020

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL: _____
 DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	1735 - Lot 44 Crosswinds	Bedrooms:	3	Address Type:	Lot Information								
Building Type:	User	Conditioned Area:	1735	Lot #	44								
Owner Name:		Total Stories:	1	Block/Subdivision:	Crosswinds								
# of Units:	1	Worst Case:	No	PlatBook:									
Builder Name:	Rhett Smithy	Rotate Angle:	0	Street:									
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia								
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL ,								
Family Type:	Single-family												
New/Existing:	New (From Plans)												
Comment:													
CLIMATE													
✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range				
---	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium				
BLOCKS													
	Number	Name	Area	Volume									
	1	Block1	1735	15615									
SPACES													
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated		
	1	Main	1735	15615	Yes	6	3	1	Yes	Yes	Yes		
FLOORS													
✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet			
---	1	Slab-On-Grade Edge Insulation	Main	173 ft	0	1735 ft²	---	0	0	1			
ROOF													
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
---	1	Gable or shed	Composition shingles	2010 ft²	506 ft²	Medium	Y	0.96	No	0.9	No	0	30.3
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
---	1	Full attic	Vented	300	1735 ft²	Y	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
---	1	Under Attic (Vented)	Main	38	Double Batt	1822 ft²	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	S	Exterior	Frame - Wood	Main	13	20	4	10		203.3 ft ²		0.23	0.75	0
2	S	Exterior	Frame - Wood	Main	13	12	4	9		111.0 ft ²		0.23	0.75	0
3	E	Exterior	Frame - Wood	Main	13	32		9		288.0 ft ²		0.23	0.75	0
4	N	Exterior	Frame - Wood	Main	13	38	4	9		345.0 ft ²		0.23	0.75	0
5	N	Exterior	Frame - Wood	Main	13	16		9		144.0 ft ²		0.23	0.75	0
6	W	Exterior	Frame - Wood	Main	13	32		9		288.0 ft ²		0.23	0.75	0
7	S	Garage	Frame - Wood	Main	13	21	8	9		195.0 ft ²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Insulated	Main	None	.46	3		6	8	20 ft ²
2	S	Insulated	Main	None	.46	3		6	8	20 ft ²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft ²	5 ft 6 in	1 ft 0 in	None	None
2	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
3	N	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft ²	1 ft 6 in	2 ft 0 in	None	None
4	N	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft ²	11 ft 6 in	1 ft 0 in	None	None
5	N	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	46.0 ft ²	11 ft 6 in	0 ft 6 in	None	None
6	W	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft ²	1 ft 6 in	1 ft 0 in	None	None
7	N	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	18.0 ft ²	1 ft 6 in	1 ft 0 in	None	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	447.791889 ft ²	447.791889 ft ²	63 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1301.3	71.44	134.35	.1128	5

HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	Single	HSPF:8.2	25.95 kBtu/hr	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM																								
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts														
✓	1	Central Unit/	None	Single	SEER: 14	19.3 kBtu/hr	570 cfm	0.7	1	sys#1														
HOT WATER SYSTEM																								
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation															
✓	1	Electric	None	Main	0.92	50 gal	40 gal	120 deg	None															
SOLAR HOT WATER SYSTEM																								
✓	FSEC Cert #	Company Name	System Model#			Collector Model#	Collector Area	Storage Volume	FEF															
✓	None	None					ft ²																	
DUCTS																								
✓	#	--- Supply ---			--- Return ---		Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool												
✓	1	Attic	6	433.75 f	Attic	86.75 ft ²	Default Leakage	Main	(Default) c	(Default) c			1	1										
TEMPERATURES																								
Programable Thermostat: Y				Ceiling Fans:																				
Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input type="checkbox"/>	Jun	<input type="checkbox"/>	Jul	<input type="checkbox"/>	Aug	<input type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input type="checkbox"/>	Dec
Venting	<input type="checkbox"/>	Jan	<input type="checkbox"/>	Feb	<input type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input type="checkbox"/>	Jun	<input type="checkbox"/>	Jul	<input type="checkbox"/>	Aug	<input type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input type="checkbox"/>	Dec
Thermostat Schedule: HERS 2006 Reference																								
Schedule Type		Hours																						
		1	2	3	4	5	6	7	8	9	10	11	12											
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80											
	PM	80	80	78	78	78	78	78	78	78	78	78	78											
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78											
	PM	78	78	78	78	78	78	78	78	78	78	78	78											
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68											
	PM	68	68	68	68	68	68	68	68	68	68	68	66											
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68											
	PM	68	68	68	68	68	68	68	68	68	68	68	66											
MASS																								
Mass Type	Area			Thickness	Furniture Fraction				Space															
Default(8 lbs/sq.ft.)	0 ft ²			0 ft	0.3				Main															

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

The lower the Energy Performance Index, the more efficient the home.

<p>1. New home or, addition</p> <p>2. Single-family or multiple-family</p> <p>3. No. of units (if multiple-family)</p> <p>4. Number of bedrooms</p> <p>5. Is this a worst case? (yes/no)</p> <p>6. Conditioned floor area (sq. ft.)</p> <p>7. Windows, type and area</p> <p style="margin-left: 20px;">a) U-factor:(weighted average)</p> <p style="margin-left: 20px;">b) Solar Heat Gain Coefficient (SHGC)</p> <p style="margin-left: 20px;">c) Area</p> <p>8. Skylights</p> <p style="margin-left: 20px;">a) U-factor:(weighted average)</p> <p style="margin-left: 20px;">b) Solar Heat Gain Coefficient (SHGC)</p> <p>9. Floor type, insulation level:</p> <p style="margin-left: 20px;">a) Slab-on-grade (R-value)</p> <p style="margin-left: 20px;">b) Wood, raised (R-value)</p> <p style="margin-left: 20px;">c) Concrete, raised (R-value)</p> <p>10. Wall type and insulation:</p> <p style="margin-left: 20px;">A. Exterior:</p> <p style="margin-left: 40px;">1. Wood frame (Insulation R-value)</p> <p style="margin-left: 40px;">2. Masonry (Insulation R-value)</p> <p style="margin-left: 20px;">B. Adjacent:</p> <p style="margin-left: 40px;">1. Wood frame (Insulation R-value)</p> <p style="margin-left: 40px;">2. Masonry (Insulation R-value)</p> <p>11. Ceiling type and insulation level</p> <p style="margin-left: 20px;">a) Under attic</p> <p style="margin-left: 20px;">b) Single assembly</p> <p style="margin-left: 20px;">c) Knee walls/skylight walls</p> <p style="margin-left: 20px;">d) Radiant barrier installed</p>	<p>1. <u>New (From Plans)</u></p> <p>2. <u>Single-family</u></p> <p>3. <u>1</u></p> <p>4. <u>3</u></p> <p>5. <u>No</u></p> <p>6. <u>1735</u></p> <p>7a. <u>0.360</u></p> <p>7b. <u>0.250</u></p> <p>7c. <u>212.0</u></p> <p>8a. <u>NA</u></p> <p>8b. <u>NA</u></p> <p>9a. <u>0.0</u></p> <p>9b. _____</p> <p>9c. _____</p> <p>10A1. <u>13.0</u></p> <p>10A2. _____</p> <p>10B1. <u>13.0</u></p> <p>10B2. _____</p> <p>11a. <u>38.0</u></p> <p>11b. _____</p> <p>11c. _____</p> <p>11d. <u>Yes</u></p>	<p>12. Ducts, location & insulation level</p> <p style="margin-left: 20px;">a) Supply ducts R <u>6.0</u></p> <p style="margin-left: 20px;">b) Return ducts R <u>6.0</u></p> <p style="margin-left: 20px;">c) AHU location <u>Main</u></p> <p>13. Cooling system: Capacity <u>19.3</u></p> <p style="margin-left: 20px;">a) Split system SEER _____</p> <p style="margin-left: 20px;">b) Single package SEER _____</p> <p style="margin-left: 20px;">c) Ground/water source SEER/COP _____</p> <p style="margin-left: 20px;">d) Room unit/PTAC EER _____</p> <p style="margin-left: 20px;">e) Other <u>14.0</u></p> <p>14. Heating system: Capacity <u>25.9</u></p> <p style="margin-left: 20px;">a) Split system heat pump HSPF _____</p> <p style="margin-left: 20px;">b) Single package heat pump HSPF _____</p> <p style="margin-left: 20px;">c) Electric resistance COP _____</p> <p style="margin-left: 20px;">d) Gas furnace, natural gas AFUE _____</p> <p style="margin-left: 20px;">e) Gas furnace, LPG AFUE _____</p> <p style="margin-left: 20px;">f) Other <u>8.20</u></p> <p>15. Water heating system</p> <p style="margin-left: 20px;">a) Electric resistance EF <u>0.92</u></p> <p style="margin-left: 20px;">b) Gas fired, natural gas EF _____</p> <p style="margin-left: 20px;">c) Gas fired, LPG EF _____</p> <p style="margin-left: 20px;">d) Solar system with tank EF _____</p> <p style="margin-left: 20px;">e) Dedicated heat pump with tank EF _____</p> <p style="margin-left: 20px;">f) Heat recovery unit HeatRec% _____</p> <p style="margin-left: 20px;">g) Other _____</p> <p>16. HVAC credits claimed (Performance Method)</p> <p style="margin-left: 20px;">a) Ceiling fans _____</p> <p style="margin-left: 20px;">b) Cross ventilation <u>Yes</u></p> <p style="margin-left: 20px;">c) Whole house fan <u>No</u></p> <p style="margin-left: 20px;">d) Multizone cooling credit _____</p> <p style="margin-left: 20px;">e) Multizone heating credit _____</p> <p style="margin-left: 20px;">f) Programmable thermostat <u>Yes</u></p>
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*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL display card will be completed based on installed code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: Lake City, FL

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction: _____	Permit #: _____
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Job Information

Builder: Rhett Smithey	Community: _____	Lot: 44
------------------------	------------------	---------

Address: _____

City: Lake City	State: FL	Zip: _____
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Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 + \frac{15615}{\text{Building Volume}} = \text{ACH}(50)$ <p style="text-align: center; font-size: 24px; margin: 10px 0;"><input type="checkbox"/> PASS</p> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p>Method for calculating building volume:</p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
--	---

R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7) Florida Statutes or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Residential System Sizing Calculation

Summary

Project Title:
1735 - Lot 44 Crosswinds

Lake City, FL

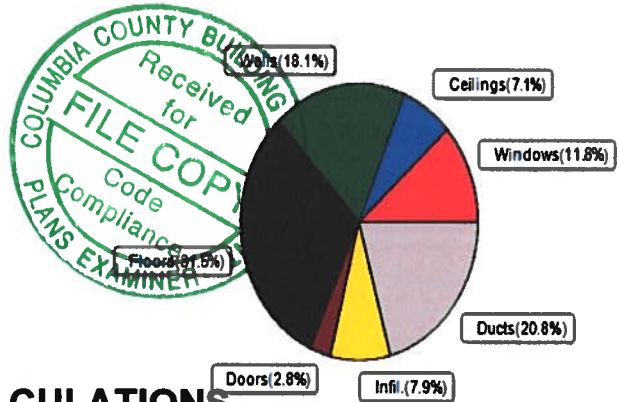
3/12/2020

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature(TMY3 99%)	30 F	Summer design temperature(TMY3 99%)	94 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	40 F	Summer temperature difference	19 F
Total heating load calculation	25948 Btuh	Total cooling load calculation	19300 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	100.0 25948	Sensible (SHR = 0.70)	86.6 13510
Heat Pump + Auxiliary(0.0kW)	100.0 25948	Latent	156.5 5790
		Total (Electric Heat Pump)	100.0 19300

WINTER CALCULATIONS

Winter Heating Load (for 1735 sqft)

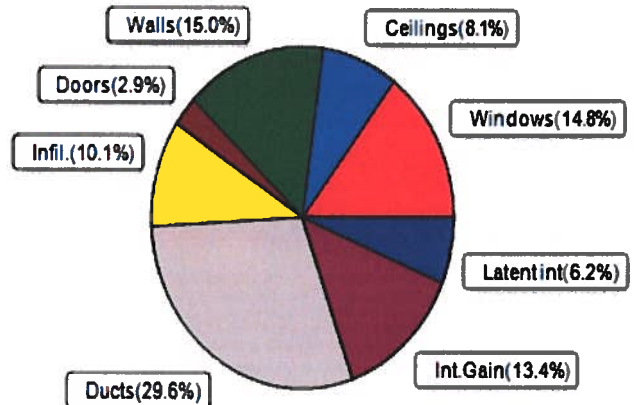
Load component		Load	
Window total	212 sqft	3053	Btuh
Wall total	1322 sqft	4695	Btuh
Door total	40 sqft	736	Btuh
Ceiling total	1822 sqft	1850	Btuh
Floor total	1735 sqft	8166	Btuh
Infiltration	47 cfm	2056	Btuh
Duct loss		5393	Btuh
Subtotal		25948	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		25948	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1735 sqft)

Load component		Load	
Window total	212 sqft	2848	Btuh
Wall total	1322 sqft	2892	Btuh
Door total	40 sqft	552	Btuh
Ceiling total	1822 sqft	1572	Btuh
Floor total		0	Btuh
Infiltration	35 cfm	733	Btuh
Internal gain		2580	Btuh
Duct gain		4424	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		15600	Btuh
Latent gain(ducts)		1284	Btuh
Latent gain(infiltration)		1215	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		3699	Btuh
TOTAL HEAT GAIN		19300	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

3/12/2020

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
1735 - Lot 44 Crosswinds
Building Type: User

Lake City, FL

3/12/2020

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House							
Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM= Load
1	2, NFRC 0.25	Vinyl	0.36	S	36.0	14.4	518 Btuh
2	2, NFRC 0.25	Vinyl	0.36	S	15.0	14.4	216 Btuh
3	2, NFRC 0.25	Vinyl	0.36	N	45.0	14.4	648 Btuh
4	2, NFRC 0.25	Vinyl	0.36	N	36.0	14.4	518 Btuh
5	2, NFRC 0.25	Vinyl	0.36	N	46.0	14.4	662 Btuh
6	2, NFRC 0.25	Vinyl	0.36	W	16.0	14.4	230 Btuh
7	2, NFRC 0.25	Vinyl	0.36	N	18.0	14.4	259 Btuh
Window Total					212.0(sqft)		3053 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM= Load	
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	147	3.55	523 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	96	3.55	341 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	288	3.55	1022 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	282	3.55	1001 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	62	3.55	220 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	272	3.55	966 Btuh
7	Frame - Wood	- Adj	(0.089)	13.0/0.0	175	3.55	621 Btuh
Wall Total					1322(sqft)		4695 Btuh
Doors	Type	Storm	Ueff.	Area X	HTM= Load		
1	Insulated - Exterior, n		(0.460)	20	18.4	368 Btuh	
2	Insulated - Garage, n		(0.460)	20	18.4	368 Btuh	
Door Total				40(sqft)		736Btuh	
Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM= Load		
1	Vented Attic/L/Shing	(0.025)	38.0/0.0	1822	1.0	1850 Btuh	
Ceiling Total				1822(sqft)		1850Btuh	
Floors	Type	Ueff.	R-Value	Size X	HTM= Load		
1	Slab On Grade	(1.180)	0.0	173.0 ft(perim.)	47.2	8166 Btuh	
Floor Total				1735 sqft		8166 Btuh	
Envelope Subtotal:						18499 Btuh	
Infiltration	Type	Wholehouse ACH	Volume(cuft)	Wall Ratio	CFM= Load		
	Natural	0.18	15615	1.00	47.0	2056 Btuh	
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.262)				5393 Btuh		
All Zones	Sensible Subtotal All Zones					25948 Btuh	

Manual J Winter Calculations

Residential Load - Component Details (continued)

Lake City, FL

Project Title:
1735 - Lot 44 Crosswinds
Building Type: User

3/12/2020

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	25948 Btuh 0 Btuh 25948 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	25948 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
 or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
 U - (Window U-Factor)
 HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
1735 - Lot 44 Crosswinds

Lake City, FL

3/12/2020

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load
	Panes	SHGC	U	InSh	IS	Omt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2 NFRC	0.25, 0.36	No	No	S	5.5ft.	1.0ft.	36.0	36.0	0.0	12	14	436 Btuh	
2	2 NFRC	0.25, 0.36	No	No	S	1.5ft.	1.0ft.	15.0	15.0	0.0	12	14	181 Btuh	
3	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	2.0ft.	45.0	0.0	45.0	12	12	544 Btuh	
4	2 NFRC	0.25, 0.36	No	No	N	11.5f	1.0ft.	36.0	0.0	36.0	12	12	436 Btuh	
5	2 NFRC	0.25, 0.36	No	No	N	11.5f	0.5ft.	46.0	0.0	46.0	12	12	557 Btuh	
6	2 NFRC	0.25, 0.36	No	No	W	1.5ft.	1.0ft.	16.0	1.0	15.0	12	31	477 Btuh	
7	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	18.0	0.0	18.0	12	12	218 Btuh	
Window Total								212 (sqft)					2848 Btuh	
Walls	Type	U-Value	R-Value	Area(sqft)		HTM		Load						
				Cav/Sheath										
1	Frame - Wood - Ext	0.09	13.0/0.0	147.3		2.3		333 Btuh						
2	Frame - Wood - Ext	0.09	13.0/0.0	96.0		2.3		217 Btuh						
3	Frame - Wood - Ext	0.09	13.0/0.0	288.0		2.3		652 Btuh						
4	Frame - Wood - Ext	0.09	13.0/0.0	282.0		2.3		638 Btuh						
5	Frame - Wood - Ext	0.09	13.0/0.0	62.0		2.3		140 Btuh						
6	Frame - Wood - Ext	0.09	13.0/0.0	272.0		2.3		616 Btuh						
7	Frame - Wood - Adj	0.09	13.0/0.0	175.0		1.7		295 Btuh						
Wall Total				1322 (sqft)				2892 Btuh						
Doors	Type	Area (sqft)		HTM		Load								
1	Insulated - Exterior	20.0		13.8		276 Btuh								
2	Insulated - Garage	20.0		13.8		276 Btuh								
Door Total		40 (sqft)				552 Btuh								
Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM		Load							
1	Vented AtticLight/Shingle/RB	0.025	38.0/0.0	1822.0	0.86		1572 Btuh							
Ceiling Total				1822 (sqft)			1572 Btuh							
Floors	Type	R-Value		Size	HTM		Load							
1	Slab On Grade	0.0		1735 (ft-perimeter)	0.0		0 Btuh							
Floor Total				1735.0 (sqft)			0 Btuh							
Envelope Subtotal:							7864 Btuh							
Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=		Load							
	Natural	0.14	15615	1	35.2		733 Btuh							
Internal gain	Occupants	Btuh/occupant		Appliance		Load								
	6	X	230	+	1200		2580 Btuh							
Sensible Envelope Load:							11177 Btuh							
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.396)		4424 Btuh							
Sensible Load All Zones							15600 Btuh							

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
1735 - Lot 44 Crosswinds

Lake City, FL

3/12/2020

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	11177 Btuh
	Sensible Duct Load	4424 Btuh
	Total Sensible Zone Loads	15600 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	15600 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1215 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1284 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3699 Btuh
	TOTAL GAIN	19300 Btuh

EQUIPMENT

1. Central Unit	#	19300 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)
 (SHGC - Shading coefficient of glass as SHGC numerical value)
 (U - Window U-Factor)
 (InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
 - For Blinds: Assume medium color, half closed
 For Draperies: Assume medium weave, half closed
 For Roller shades: Assume translucent, half closed
 (IS - Insect screen: none(N), Full(F) or Half(½))
 (Ornt - compass orientation)



Version 8



**COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST**

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2014 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 1 JULY 2015. NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

**FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES
Revised 12/2016**

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Marked as Applicable		
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		Select From the Dropdown		
1	Two (2) complete sets of plans containing the following:	- YES		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	- YES		
3	Condition space (Sq. Ft.) : 1735 Sq Ft	Total (Sq. Ft.) under roof	2431 Sq Ft	YES NO N/A

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	- YES		
5	Dimensions of all building set backs	- YES		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	- YES		
7	Provide a full legal description of property.	- YES		

Wind-load Engineering Summary, calculations and any details are required.

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Marked as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	YES NO N/A		
		Select From the Dropdown		
9	Basic wind speed (3-second gust), miles per hour	- YES		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	- YES		
11	Wind importance factor and nature of occupancy	- YES		
12	The applicable internal pressure coefficient, Components and Cladding	- YES		
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.	- YES		

Elevations Drawing including:

14	All side views of the structure	- YES		
15	Roof pitch	- YES		
16	Overhang dimensions and detail with attic ventilation	- YES		
17	Location, size and height above roof of chimneys	- YES		
18	Location and size of skylights with Florida Product Approval	- YES		
18	Number of stories	- YES		
20A	Building height from the established grade to the roofs highest peak	- YES		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	- <input type="checkbox"/> Yes
21	Raised floor surfaces located more than 30 inches above the floor or grade	- <input type="checkbox"/> n/a
22	All exterior and interior shear walls indicated	- <input type="checkbox"/> Yes
23	Shear wall opening shown (Windows, Doors and Garage doors)	- <input type="checkbox"/> Yes
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	- <input type="checkbox"/> Yes
25	Safety glazing of glass where needed	- <input type="checkbox"/> n/a
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	- <input type="checkbox"/> Gas
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	- <input type="checkbox"/> n/a
28	Identify accessibility of bathroom (see FBCR SECTION 320)	- <input type="checkbox"/> n/a

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to include- Each Box shall be Marked as Applicable
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YES / NO / N/A

FBCR 403: Foundation Plans

Select From the Dropdown

29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	- <input type="checkbox"/> Yes
30	All posts and/or column footing including size and reinforcing	- <input type="checkbox"/> Yes
31	Any special support required by soil analysis such as piling.	- <input type="checkbox"/> n/a
32	Assumed load-bearing value of soil _____ Pound Per Square Foot	- <input type="checkbox"/>
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	- <input type="checkbox"/> n/a

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	- <input type="checkbox"/>
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	- <input type="checkbox"/>

FBCR 318: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides	- <input type="checkbox"/> Yes
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FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	- <input type="checkbox"/> Yes
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	- <input type="checkbox"/>

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	- <input type="checkbox"/> Yes
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40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	- <input checked="" type="checkbox"/> Yes
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers	- <input checked="" type="checkbox"/> Yes
42	Attachment of joist to girder	- <input checked="" type="checkbox"/> Yes
43	Wind load requirements where applicable	- <input checked="" type="checkbox"/> Yes
44	Show required under-floor crawl space	- <input checked="" type="checkbox"/> N/A
45	Show required amount of ventilation opening for under-floor spaces	- <input checked="" type="checkbox"/> N/A
46	Show required covering of ventilation opening	- <input checked="" type="checkbox"/> N/A
47	Show the required access opening to access to under-floor spaces	- <input type="checkbox"/>
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	- <input checked="" type="checkbox"/> Yes
49	Show Draftstopping, Fire caulking and Fire blocking	- <input checked="" type="checkbox"/> Yes
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	- <input checked="" type="checkbox"/> Yes
51	Provide live and dead load rating of floor framing systems (psf).	- <input checked="" type="checkbox"/> Yes

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

YES / NO / N/A

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
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Select From the Dropdown

52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	- <input checked="" type="checkbox"/> Yes
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	- <input checked="" type="checkbox"/> Yes
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	- <input checked="" type="checkbox"/> Yes
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	- <input checked="" type="checkbox"/> Yes
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)	- <input checked="" type="checkbox"/> Yes
57	Indicate where pressure treated wood will be placed	- <input checked="" type="checkbox"/> Yes
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	- <input checked="" type="checkbox"/> Yes
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	- <input checked="" type="checkbox"/> Yes

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	- <input checked="" type="checkbox"/> Yes
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	- <input checked="" type="checkbox"/> Yes
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	- <input checked="" type="checkbox"/> Yes
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	- <input checked="" type="checkbox"/> Yes
64	Provide dead load rating of trusses	- <input checked="" type="checkbox"/> Yes

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing	- <input checked="" type="checkbox"/> Yes
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating	- <input checked="" type="checkbox"/> Yes
67	Valley framing and support details	- <input checked="" type="checkbox"/> Yes
68	Provide dead load rating of rafter system	- <input checked="" type="checkbox"/> Yes

FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	- <input checked="" type="checkbox"/> Yes
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	- <input checked="" type="checkbox"/> Yes

ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	- <input checked="" type="checkbox"/> Yes
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	- <input checked="" type="checkbox"/> Yes

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter 11 Residential buildings compliance methods. **Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.**

YES / NO / N/A

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Marked as Applicable	
Select From the Dropdown			
73	Show the insulation R value for the following areas of the structure	-	YES
74	Attic space	-	YES
75	Exterior wall cavity	-	YES
76	Crawl space	-	N/A

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study	-	YES
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required	-	YES
79	Show clothes dryer route and total run of exhaust duct	-	YES

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan	-	YES
81	Show the location of water heater	-	YES

Private Potable Water

82	Pump motor horse power	-	
83	Reservoir pressure tank gallon capacity	-	
84	Rating of cycle stop valve if used	-	

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-	YES
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	-	YES
87	Show the location of smoke detectors & Carbon monoxide detectors	-	YES
88	Show service panel, sub-panel, location(s) and total ampere ratings	-	YES
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	-	YES
90	Appliances and HVAC equipment and disconnects	-	YES
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	-	YES

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
---	--

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	NO		
93	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	NO	YES	
94	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	NO		
***	BELOW ITEMS ONLY NEEDED AFTER ZONING APPROVAL HAS GIVEN.	****	***	***
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058 <i>applied for</i>	NO	YES	
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	NO		
97	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations	NO		
98	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.			
99	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00			
100	Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	NO		
101	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	YES NO		

TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. NO

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form recorded in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation 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 such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date of issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

Notification:

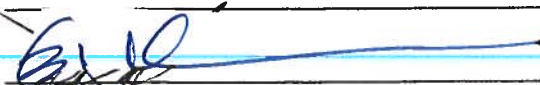
When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

PRODUCT APPROVAL SPECIFICATION SHEET

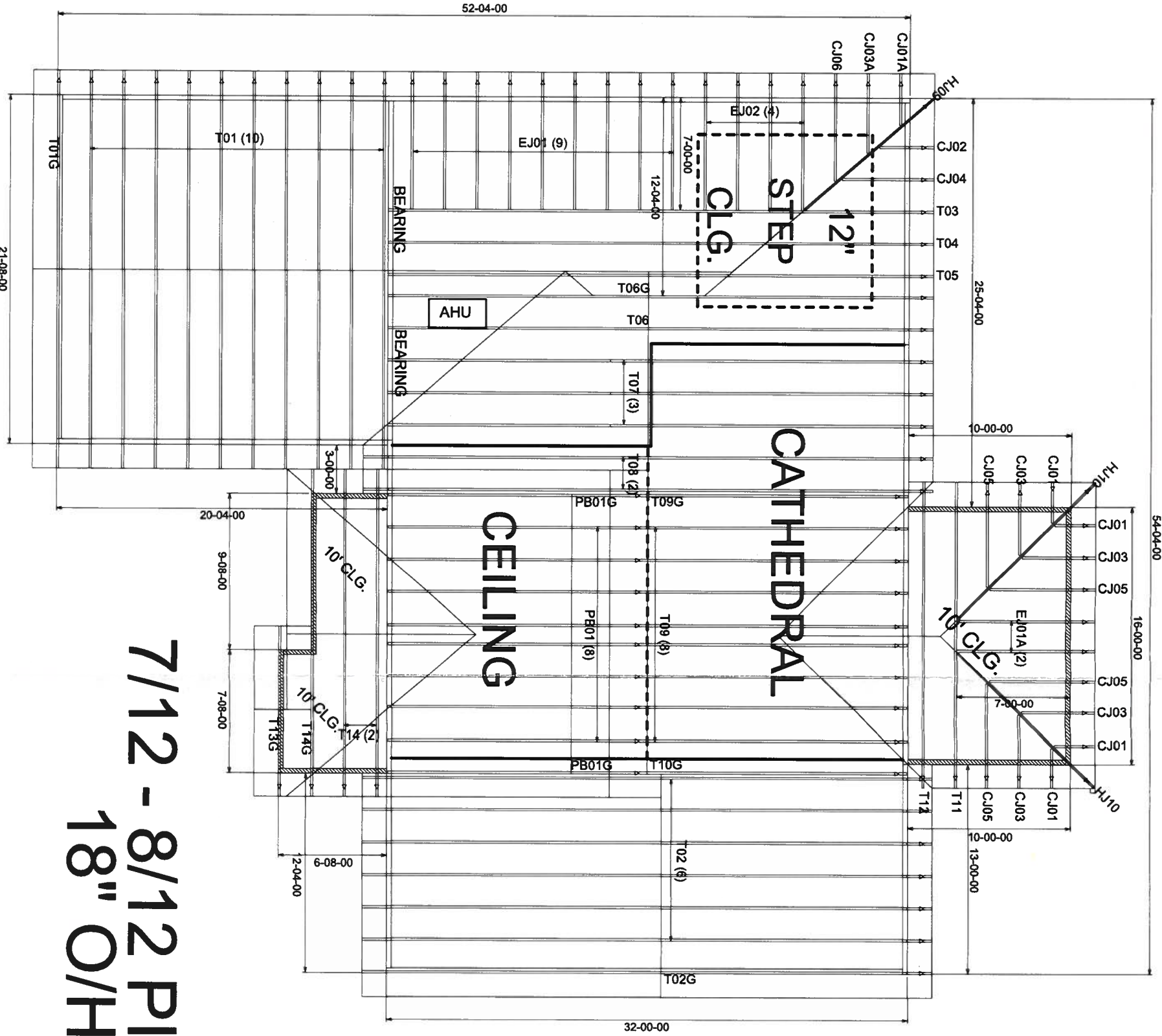
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online at www.floridabuilding.org

CATEGORY/SUBCATEGORY	MANUFACTURER	PRODUCT DESCRIPTION	APPROVAL NUMBERS(S)
1. EXTERIOR DOORS			
A. SWINGING	Masonite	Single hung	FL 5465-R9
B. SLIDING			
C. SECTIONAL/ROLL UP	CHI Overhead	Garage Door	FL 12045-R4
D. OTHER	Masonite	Single hung w/ side lites	FL 17798-R2
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI Windows	Single hung	FL 17499-R5
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	Hardie	plank siding	FL 10477-R7
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Timberline		FL 3443-R30
B. NON-STRUCT METAL			
C. ROFFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	simpson		FL 620-R18
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
A. ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite: (1) copy of the product approval (2) performance characteristics which the product was tested and certified to comply with (3) copy of the applicable manufacturer's installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.


 Applicant Signature



3.20.20
 Date



7/12 - 8/12 PITCHES
18" O/H

FL Approval Codes - Mitek Plates #'s 2197.2 - 2197.4, Versa-Lam #1644-R4 & BCI Joists #1392-R4

BEARING HEIGHT SCHEDULE

	9' 1-1/8"
	10' 1-1/8"

NOTES:

- 1) REFER TO HB 94 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER ALL WALLS) MUST BE PROPERLY BRACED AND DECIDED OR REFER TO PERMANENT ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5/42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) BEARING ADJUSTMENT (BARS) TO BE FURNISHED BY BUILDER.



Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973

Tampa
PHONE: 813-621-9851 FAX: 813-628-8986

Lake City
PHONE: 386-755-6844 FAX: 386-755-1973

BUILDER
SMITHEY

LOT 44 CROSSWINDS

DATE: 3-17-20	DESIGNED BY: KLH	PROJECT NO: 2292653
ISSUED BY:	DATE:	BY:



Lumber design values are in accordance with ANSI/TPI 1 section 6.3
 These truss designs rely on lumber values established by others.

RE: 2292653 - SMITHEY - LOT 44 CW

MiTek USA, Inc.
 6904 Parke East Blvd.
 Tampa, FL 33610-4115

Site Information:

Customer Info: Smithey Project Name: Spec Hse Model: Custom
 Lot/Block: 44 Subdivision: Crosswinds
 Address: TBD, TBD
 City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

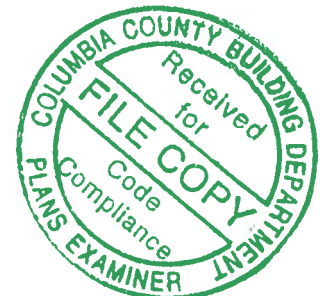
Name: License #:
 Address:
 City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
 Wind Code: ASCE 7-10 Wind Speed: 130 mph
 Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 34 individual, Truss Design Drawings and 0 Additional Drawings.
 With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

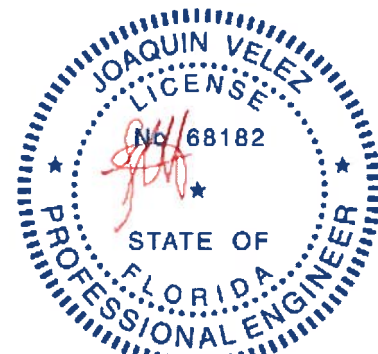
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T19711824	CJ01	3/17/20	23	T19711846	T06	3/17/20
2	T19711825	CJ01A	3/17/20	24	T19711847	T06G	3/17/20
3	T19711826	CJ02	3/17/20	25	T19711848	T07	3/17/20
4	T19711827	CJ03	3/17/20	26	T19711849	T08	3/17/20
5	T19711828	CJ03A	3/17/20	27	T19711850	T09	3/17/20
6	T19711829	CJ04	3/17/20	28	T19711851	T09G	3/17/20
7	T19711830	CJ05	3/17/20	29	T19711852	T10G	3/17/20
8	T19711831	CJ06	3/17/20	30	T19711853	T11	3/17/20
9	T19711832	EJ01	3/17/20	31	T19711854	T12	3/17/20
10	T19711833	EJ01A	3/17/20	32	T19711855	T13G	3/17/20
11	T19711834	EJ02	3/17/20	33	T19711856	T14	3/17/20
12	T19711835	HJ09	3/17/20	34	T19711857	T14G	3/17/20
13	T19711836	HJ10	3/17/20				
14	T19711837	PB01	3/17/20				
15	T19711838	PB01G	3/17/20				
16	T19711839	T01	3/17/20				
17	T19711840	T01G	3/17/20				
18	T19711841	T02	3/17/20				
19	T19711842	T02G	3/17/20				
20	T19711843	T03	3/17/20				
21	T19711844	T04	3/17/20				
22	T19711845	T05	3/17/20				



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin
 My license renewal date for the state of Florida is February 28, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2



Joaquin Velez PE No. 68182
 MiTek USA, Inc. FL Cert 6834
 6904 Parke East Blvd. Tampa FL 33610
 Date:

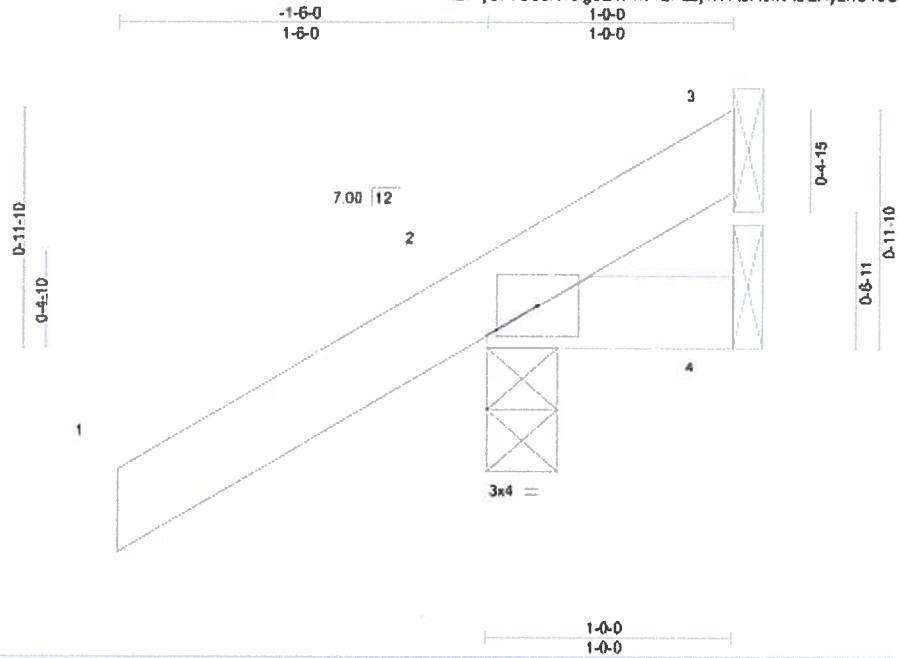
March 17, 2020

Job 2292853	Truss CJ0†	Truss Type Jack-Open	Qty 4	Ply 1	SMITHEY - LOT 44 CW	T19711824
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Builders FirstSource Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:19:44 2020 Page 1

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Scale = 1/4"

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1 25	TC 0.17	Vert(LL)	-0.00 7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1 25	BC 0.04	Vert(CT)	0.00 7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MP					Weight: 6 lb	FT = 20%

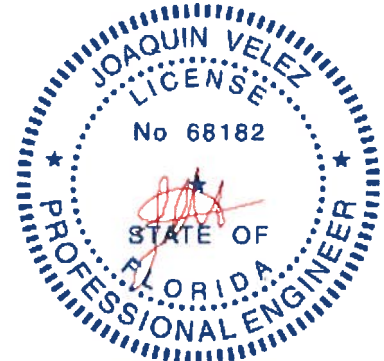
LUMBER-
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins
BOT CHORD Rigid coiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=64(LC 12)
Max Uplift 3=8(LC 1), 2=108(LC 12), 4=25(LC 19)
Max Grav 3=10(LC 16), 2=179(LC 1), 4=28(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone and C-C Extenor(2) zone, porch left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=108



Joaquin Velez PE No. 68182
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 17, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

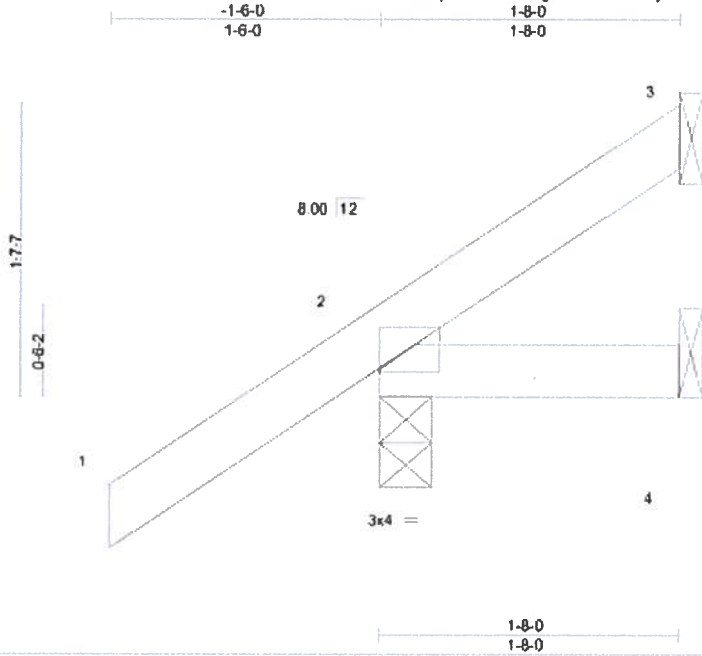


6904 Parke East Blvd
Tampa, FL 33610

Job 2292653	Truss CJ01A	Truss Type Jack-Open	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T19711825
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Builders FirstSource Jacksonville, FL - 32244,

8 240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:19:48 2020 Page 1
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Scale = 1:12.8

Plate Offsets (X,Y,Z) [2 0-0-0,0-0-3]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	7	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP					Weight: 8 lb	FT = 20%

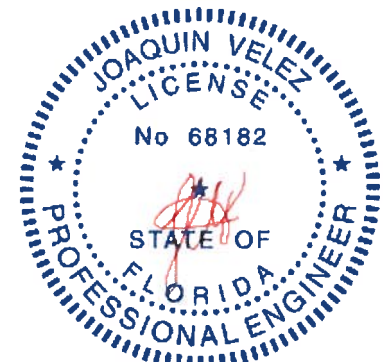
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-31(LC 12), 2=-85(LC 12)
Max Grav 3=29(LC 19), 2=179(LC 1), 4=25(LC 3)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, End, GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Joaquin Velez PE No.68182
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 17,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIJ-7473 rev. 10/3/2015 BEFORE USE.
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/PHI Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 2118 N. Lee Street, Suite 312, Alexandria, VA 22314.



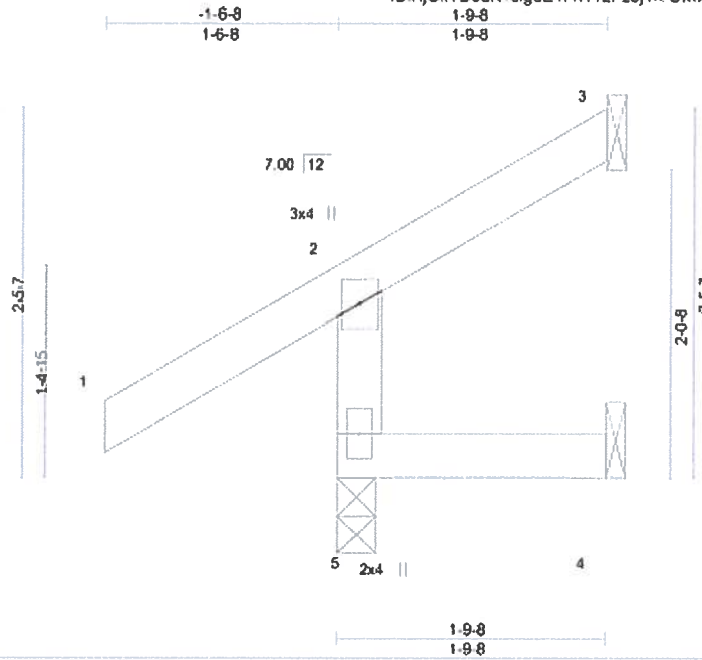
6904 Parke East Blvd.
Tampa, FL 33610

Job 2292653	Truss CJ02	Truss Type Jack-Open	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T19711826
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Builders FirstSource Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:19:51 2020 Page 1

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Scale = 1:15.3

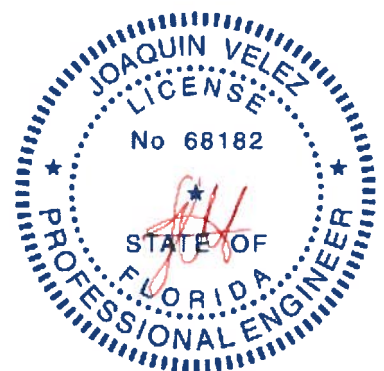
LOADING (psf)	SPACING- 2-0-0	CSI	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL) -0.00 5 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.11	Vert(CT) -0.00 4.5 >999 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MR		Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 1-9-8 oc purtins, except end verticals.
BOT CHORD 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No 3	

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical
 Max Horz 5=77(LC 9)
 Max Uplift 5=56(LC 12), 3=40(LC 12), 4=17(LC 9)
 Max Grav 5=199(LC 1), 3=27(LC 10), 4=30(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf; h=18ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone, end vertical left exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



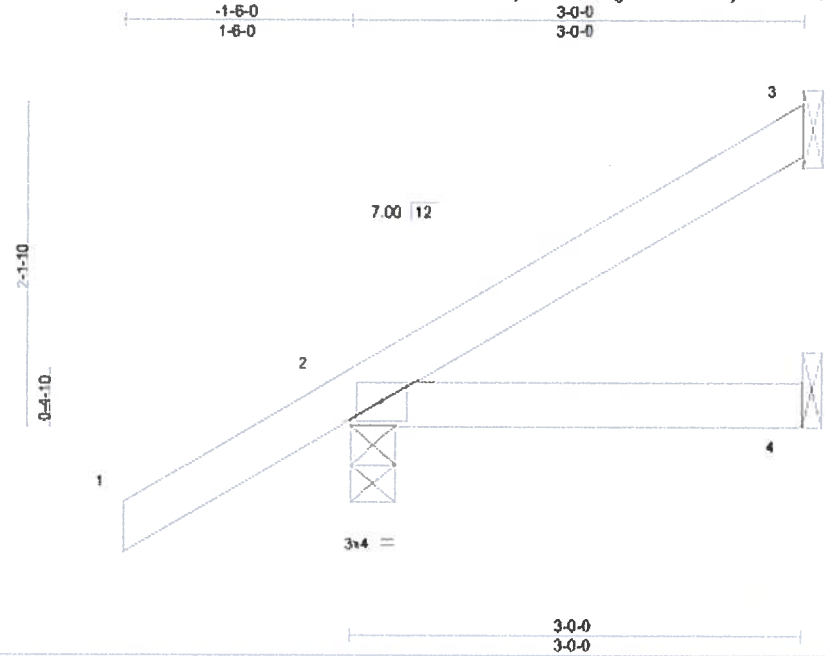
Joaquin Velez PE No.68182
 MITek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 17, 2020

Job 2292653	Truss CJ03	Truss Type Jack-Open	Qty 4	Ply 1	SMITHEY - LOT 44 CW	T19711827
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Builders FirstSource Jacksonville, FL - 32244,

Job Reference (optional)
8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:19:54 2020 Page 1
ID:KjGkVDouK1eaguE1Pn?12Pzbj4X-1V2oSb0ip0DGOcnJnM5s7CrUGgGHFOdf5uBr4za0Yp



Scale = 1:15.3

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in	(loc)	l/d	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MP						Weight: 12 lb	FT = 20%

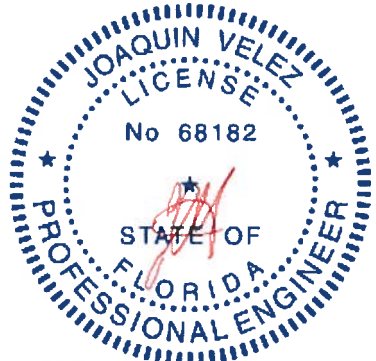
LUMBER-
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins
BOT CHORD Rigid coiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=120(LC 12)
Max Uplift 3=-60(LC 12), 2=-91(LC 12), 4=-26(LC 9)
Max Grav 3=65(LC 19), 2=210(LC 1), 4=50(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10: Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C; Encl., GCpl=0.18, MWFRS (envelope) gable end zone and C-C Extenor(2) zone; porch left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



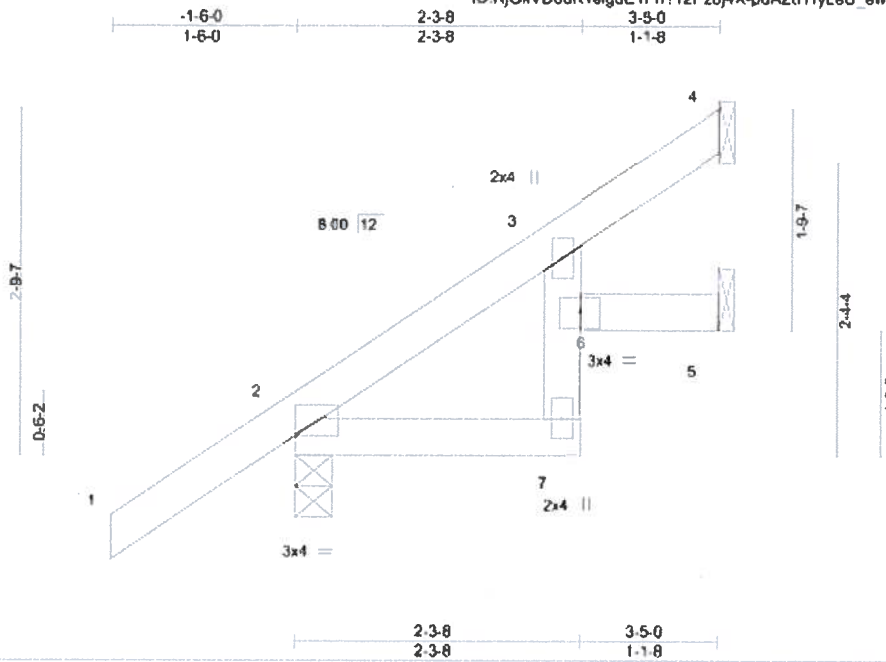
Joaquin Velez PE No. 68182
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 17, 2020

Job 2292653	Truss CJ03A	Truss Type Jack-Open	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T1971182B
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Builders FirstSource Jacksonville, FL - 32244

8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:19:56 2020 Page 1
 ID:KjGkVdouK1eiguE1Ph?12Pzbj4X-puAZtH1yLeU_ewoun7KCdxqXYK09uw6PNhwyza0Yn



Scale = 1:18.7

Plate Offsets (X,Y)-- [2 0 0-0,0-0-3]

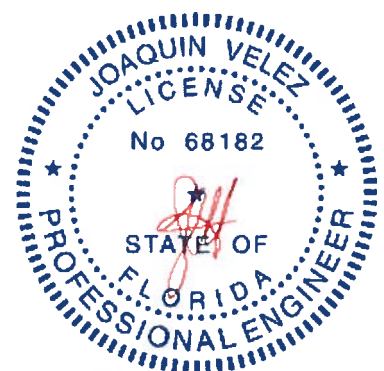
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	0.01	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.01	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins
BOT CHORD 2x4 SP No.2 *Except* 3-7: 2x4 SP No 3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=151(LC 12)
 Max Uplift 4=52(LC 12), 2=80(LC 12), 5=33(LC 12)
 Max Grav 4=62(LC 19), 2=223(LC 1), 5=60(LC 19)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone.C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grp DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



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 Date:

March 17,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/3/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-69 and BCSi Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314



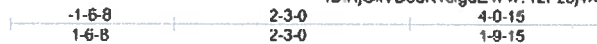
6904 Parke East Blvd.
 Tampa, FL 33610

Job 2292653	Truss CJ04	Truss Type Jack-Open	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T19711829
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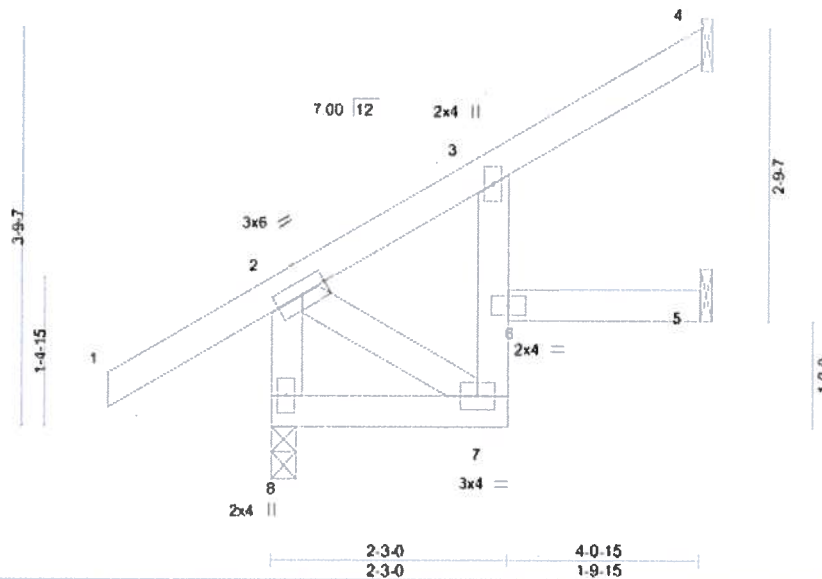
Builders FirstSource Jacksonville, FL - 32244

Job Reference (optional)

8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:19:59 2020 Page 1
ID:KjGkV DouK1eiguE1Pr?12Pzbj4X-DTrhWl4qeZsZvNfHavh2qFYlqmPTyVYmpMcyWHza0Yk



Scale = 1/219



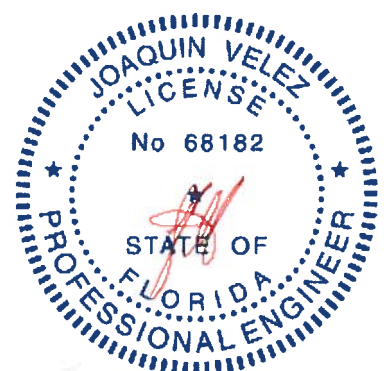
LOADING (psf)	SPACING -	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	0.06	7	>751	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.07	7	>667		
BCLL 0.0	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.04	4	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MP					Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No 2 *Except* 3-7: 2x4 SP No 3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No 3	

REACTIONS. (size) 8=0-3-0, 4=Mechanical, 5=Mechanical
 Max Horz 8=131(LC 12)
 Max Uplift 8=65(LC 12), 4=130(LC 12)
 Max Grav 8=254(LC 1), 4=135(LC 19), 5=38(LC 3)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown

- NOTES-**
- 1) Wind ASCE 7-10, Vu1=130mph (3-second gust) Vsd=101mph, TCCL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, End., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (if=lb) 4=130.



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March 17, 2020

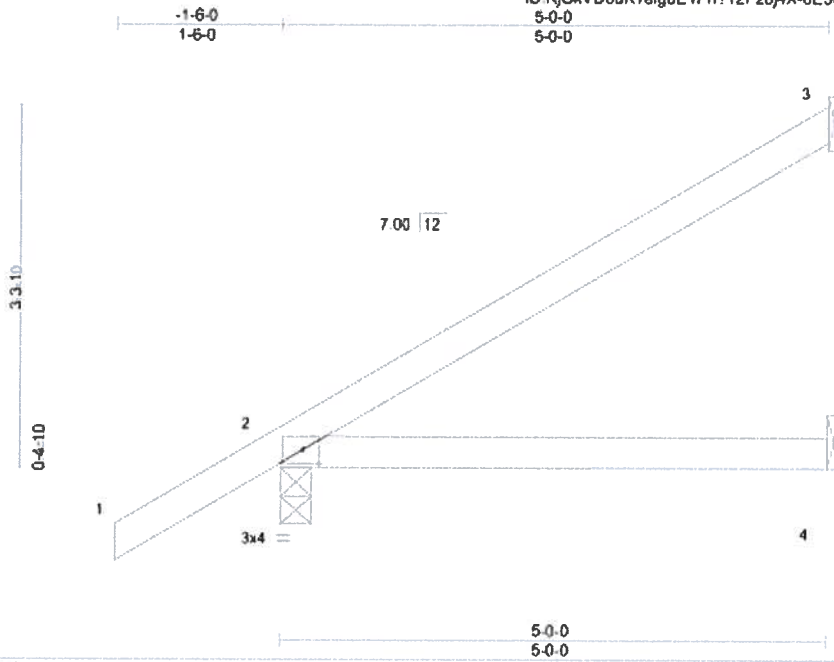


Plate Offsets (X, Y)-- [2 0-1-12 0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	0.08	4-7	>721	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	0.07	4-7	>834	180	
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MP						
								Weight: 19 lb	FT = 20%

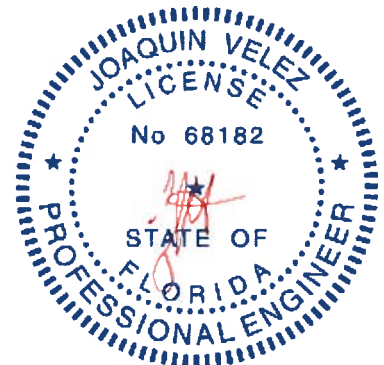
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=177(LC 12)
 Max Uplift 3=111(LC 12), 2=102(LC 12), 4=46(LC 9)
 Max Grav 3=123(LC 19), 2=276(LC 1), 4=89(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II, Exp C, Encl., GCpl=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone, porch left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.80 plate grip DOL=1.80
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=111, 2=102.



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March 17, 2020



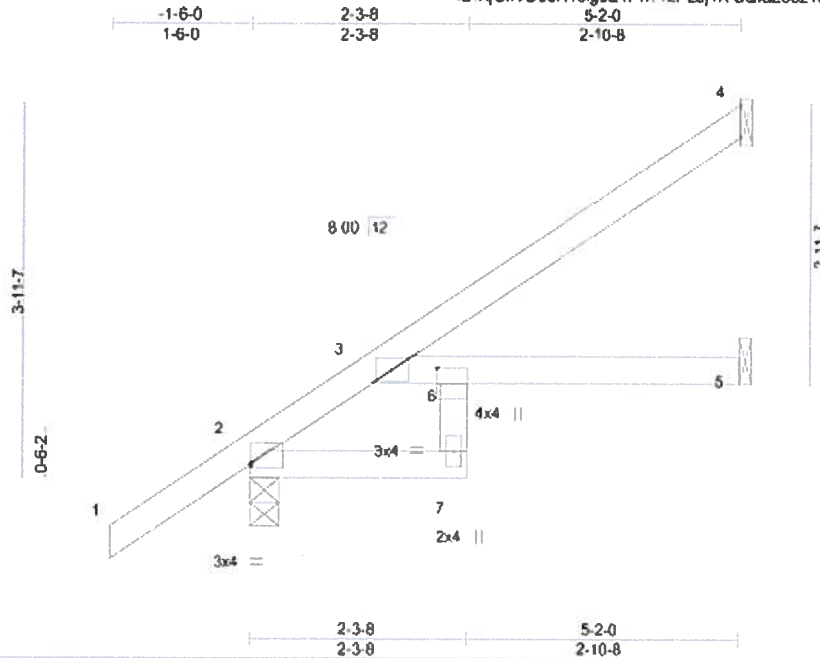
6904 Parke East Blvd.
 Tampa, FL 33610

Job 2292653	Truss CJ06	Truss Type Jack-Open	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T19711831
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Builders FirstSource Jacksonville, FL - 32244,

Job Reference (optional)

8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:04 2020 Page 1
ID KjGkV DouK1eiguE1Pn712Pzby4X-aQfaZ08zT5Urb8YEMTGDXJGA3n?vdms5yeKjCVza0Yf



Scale = 1/24.4

Plate Offsets (X,Y)-- [2 0-0-0 0-0-7] [6 0-2-0 0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	0.06	5-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.08	5-6	>801	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-MR						Weight: 22 lb	FT = 20%

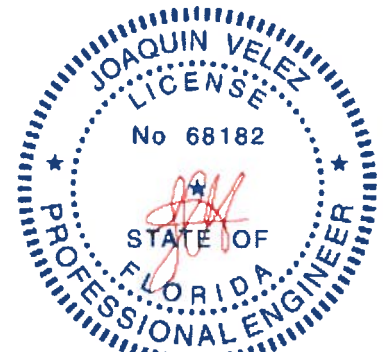
LUMBER-
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP No 2 *Except*
 6-7 2x4 SP No 3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=207(LC 12)
 Max Uplift 4=-105(LC 12), 2=-82(LC 12), 5=-32(LC 12)
 Max Grav 4=121(LC 19), 2=294(LC 1), 5=98(LC 3)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone. C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grp DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5 except (jt=1b) 4=105.



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 Date:

March 17, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCS/ Building Component Safety Information available from Truss Plate Institute 218 N Lee Street, Suite 312, Alexandria, VA 22314.



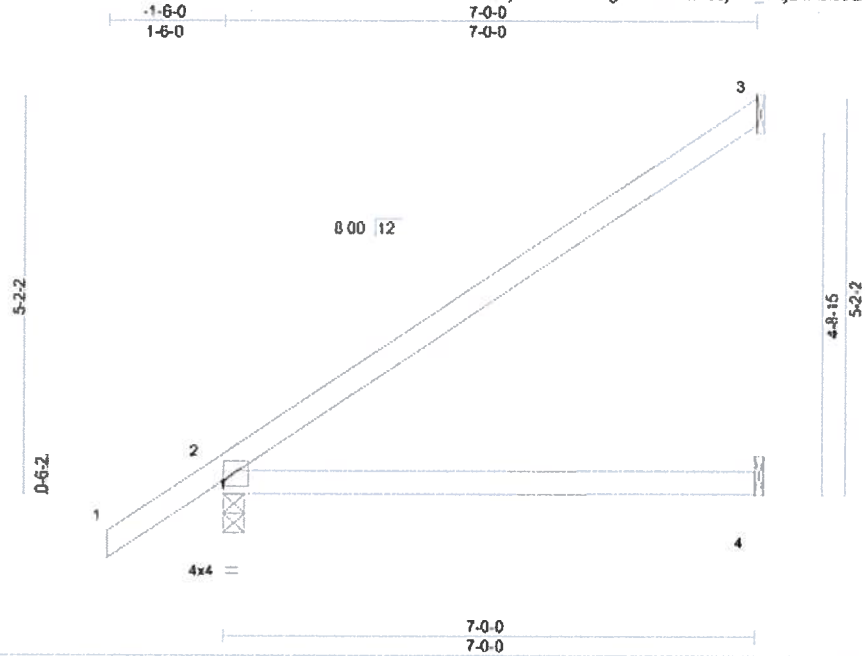
6904 Parke East Blvd.
 Tampa, FL 33610

Job 2292653	Truss EJ01	Truss Type Jack-Partial	Qty 9	Ply 1	SMITHEY - LOT 44 CW	T19711832
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Builders FirstSource Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:07 2020 Page 1

ID:KjGkVDouK1eiguE1Pn?12Pzjb4X-?KjBtAs0sQScGp2bqw9xuay_?Xq7cXecYNqza0Yc



Scale = 1:30.2

Plate Offsets (X,Y)-- [2 0-0-0 0-0-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.13 4-7	>658	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.25 4-7	>332	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03 3	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight: 26 lb	FT = 20%

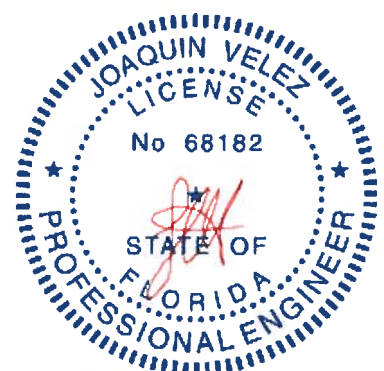
LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins
BOT CHORD 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=183(LC 12)
 Max Uplift 3=-118(LC 12), 2=-43(LC 12), 4=-2(LC 12)
 Max Grav 3=184(LC 19), 2=346(LC 1), 4=128(LC 3)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph. TCCL=4.2psf. BCDL=3.0psf. h=18ft; Cat. II, Exp C; Encl. GCpl=0.18; MWFRS (envelope) and C-C Exterior(2) zone. C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jl=lb) 3=118.



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 Date:

March 17, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIJ-7473 rev. 10/03/2015 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCS/ Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



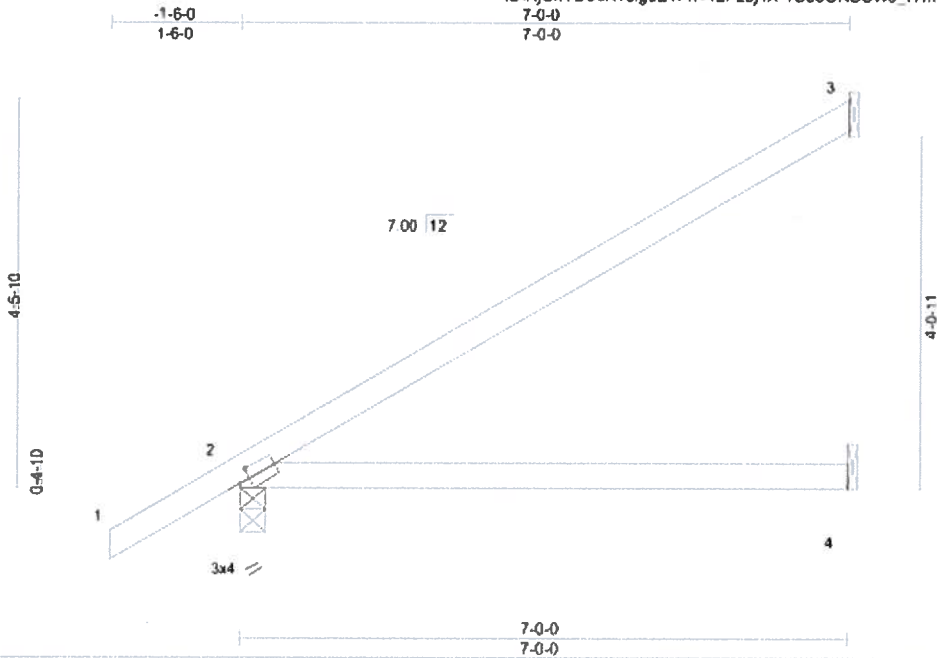
6904 Parke East Blvd.
 Tampa, FL 33610

Job 2292653	Truss EJ01A	Truss Type JACK-PARTIAL	Qty 2	Ply 1	SMITHEY - LOT 44 CW	T19711833
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Builders FirstSource Jacksonville, FL - 32244,

8 240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:08 2020 Page 1

ID:KjGkVDouK1eiguE1Pn?12Pzby4X-TBu5ONBUWJ_H4mr?bIL9h9Qk80IkZashGlvLgza0Yb



Scale = 1:26.6

Plate Offsets (X, Y) -- [2 0-1-8, 0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.78	Vert(LL)	0.33	4.7	>253	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	0.28	4.7	>295		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight 25 lb	FT = 20%

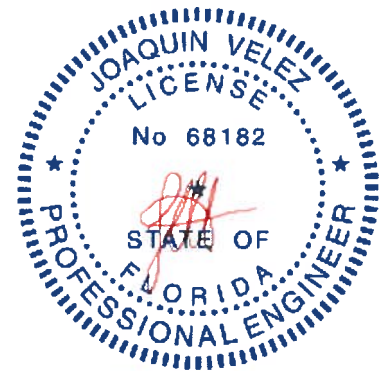
LUMBER-
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=161(LC 12)
Max Uplift 3=-104(LC 12), 2=-98(LC 9), 4=-64(LC 9)
Max Grav 3=171(LC 19), 2=346(LC 1), 4=126(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpl=0.18, MWFRS (envelope) and C-C Exterior(2) zone, porch left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jl=lb) 3=104.



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Date:

March 17, 2020

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Tampa, FL 33610

Job 2292653	Truss EJ02	Truss Type Jack-Partial	Qty 4	Ply 1	SMITHEY - LOT 44 CW	T19711834
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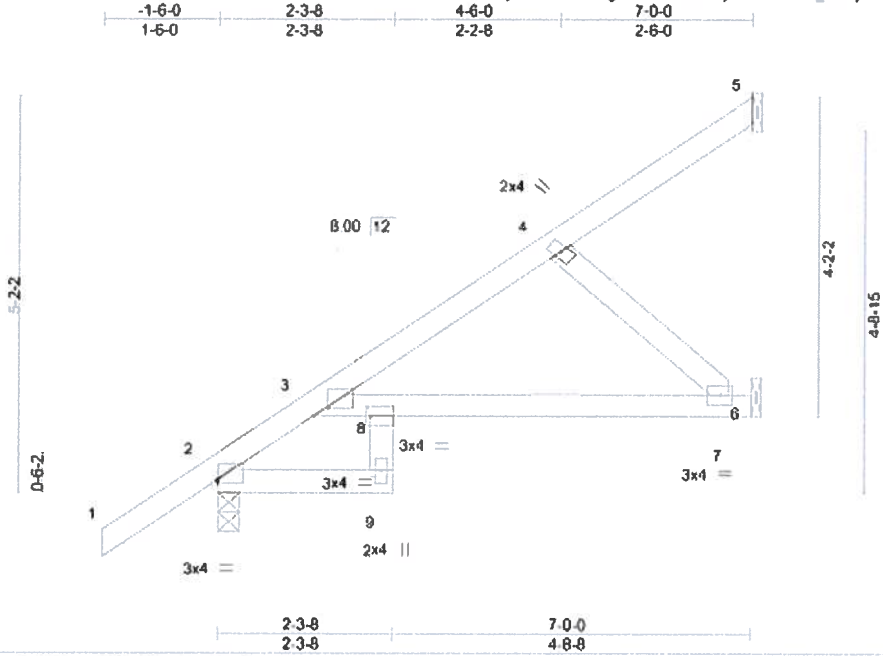


Plate Offsets (X,Y)-- [2 0-0-0 0-0-7] [3 0-2-4 0-1-3] [8 0-0-8 0-1-8]

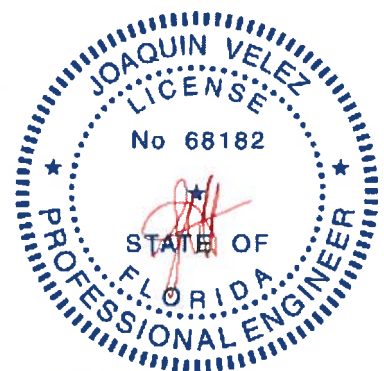
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	-0.14	7-8	>580	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.06	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 33 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins
BOT CHORD 2x4 SP No 2 *Except* 8-9 2x4 SP No 3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No 3	

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
 Max Horz 2=183(LC 12)
 Max Uplift 5=-32(LC 12), 2=-43(LC 12), 6=-88(LC 12)
 Max Grav 5=37(LC 19), 2=346(LC 1), 6=235(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 7-8=-177/251
 WEBS 4-7=-339/240

- NOTES-**
- 1) Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, End, GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone.C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-8-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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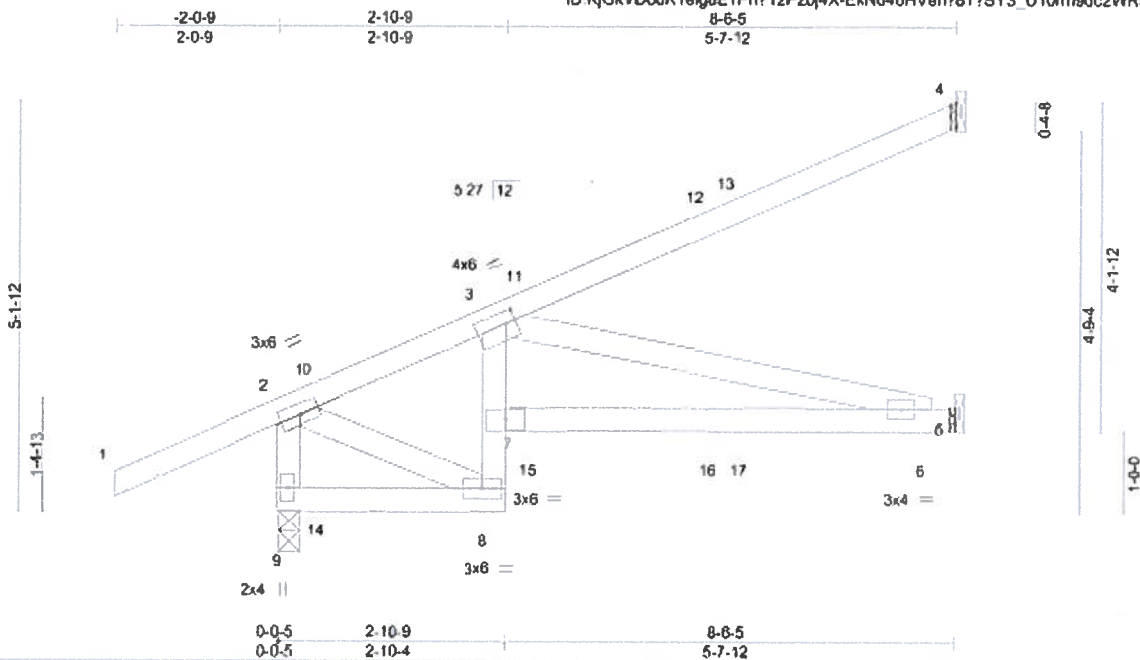


Job 2292853	Truss HJ09	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T19711835
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Builders FirstSource Jacksonville, FL - 32244,

8 240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:16 2020 Page 1

ID:KjGkVDouK1eiguE1Pn?12Pzb4X-EkNG46HVen?81?SY3_U10m9dc2WR57ejWELdoza0YT



Scale = 1/289

Plate Offsets (X, Y)-- [3 0-1-8,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	0.13 6-7	>747	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.16 6-7	>605	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	-0.06 5	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight: 46 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP No 2
 WEBS 2x4 SP No 3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

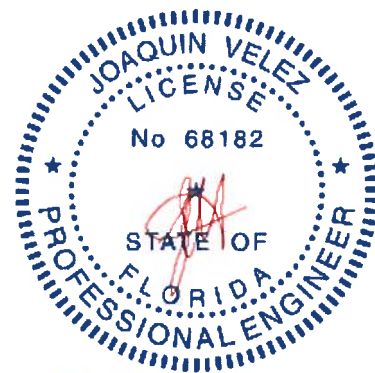
REACTIONS. (size) 9=0-3-5, 4=Mechanical, 5=Mechanical
 Max Horz 9=218(LC 8)
 Max Uplift 9=-292(LC 4), 4=-164(LC 8) 5=-209(LC 5)
 Max Grav 9=491(LC 32), 4=152(LC 1), 5=255(LC 32)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-9=-492/300, 2-3=-477/243
 BOT CHORD 6-7=-709/756
 WEBS 2-8=-225/476, 3-6=-777/728

- NOTES-**
- 1) Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=292, 4=164, 5=209.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 14 lb up at 0-7-0, 110 lb down and 21 lb up at 2-5-11, 99 lb down and 43 lb up at 3-2-14, 169 lb down and 128 lb up at 5-6-2, and 136 lb down and 105 lb up at 5-10-12, and 47 lb down and 27 lb up at 8-5-9 on top chord, and 37 lb down and 7 lb up at 0-7-0, 56 lb down and 20 lb up at 2-8-13, 80 lb down and 45 lb up at 3-2-14, and 10 lb down at 5-6-2, and 100 lb down and 51 lb up at 5-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-4=-54, 8-9=-20, 5-7=-20
 Concentrated Loads (lb)
 Vert: 4=-6(F) 8=5(B) 11=-2(F) 12=-22(B) 13=-32(F) 14=7(F) 15=-26(F) 17=-52(F)



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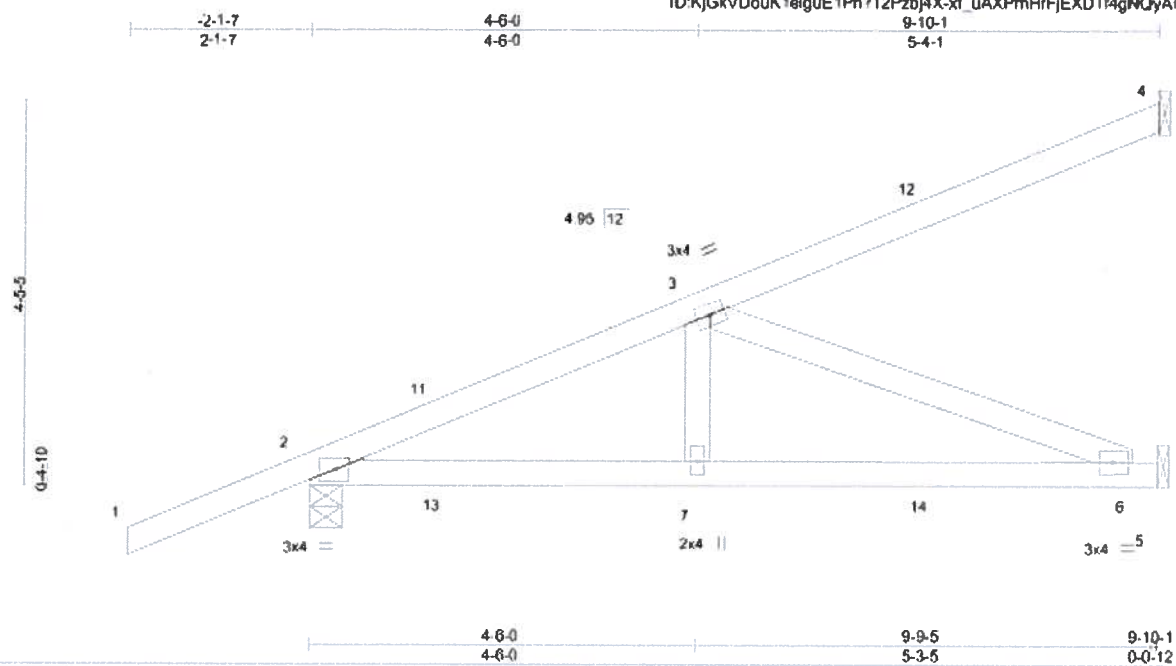
March 17, 2020

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Scale = 1:26.7

LOADING (psf)	SPACING-	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.60	Vert(LL) 0.11 6-7 >999 240		
BCLL 0.0	Lumber DOL 1.25	WB 0.40	Vert(CT) -0.11 6-7 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.01 5 n/a n/a		
	Code FBC2017/TPI2014			Weight: 44 lb	FT = 20%

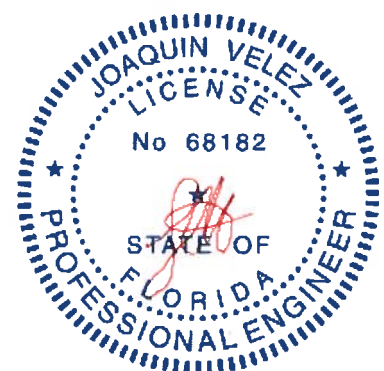
LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins
BOT CHORD 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied or 6-11-11 oc bracing
WEBS 2x4 SP No 3	

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
 Max Horz 2=233(LC 26)
 Max Uplift 4=-149(LC 8), 2=-403(LC 4), 5=-275(LC 5)
 Max Grav 4=149(LC 1), 2=527(LC 1), 5=299(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-739/534
 BOT CHORD 2-7=-611/629, 6-7=-611/629
 WEBS 3-7=-144/283, 3-6=-674/655

- NOTES-**
- 1) Wind ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCCL=3.0psf, h=18ft, Cat. II, Exp C, End.
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=1b) 4=149, 2=403, 5=275
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 76 lb up at 1-6-1, 83 lb down and 76 lb up at 1-6-1, 102 lb down and 50 lb up at 4-4-0, 102 lb down and 50 lb up at 4-4-0, and 134 lb down and 111 lb up at 7-1-15, and 134 lb down and 111 lb up at 7-1-15 on top chord, and 60 lb down and 52 lb up at 1-6-1, 60 lb down and 52 lb up at 1-6-1, 20 lb down and 34 lb up at 4-4-0, 20 lb down and 34 lb up at 4-4-0, and 42 lb down and 61 lb up at 7-1-15, and 42 lb down and 61 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 5-8=-20
 Concentrated Loads (lb)
 Vert: 7=-5(F=-3, B=-3) 12=-73(F=-36, B=-36) 14=-59(F=-29, B=-29)

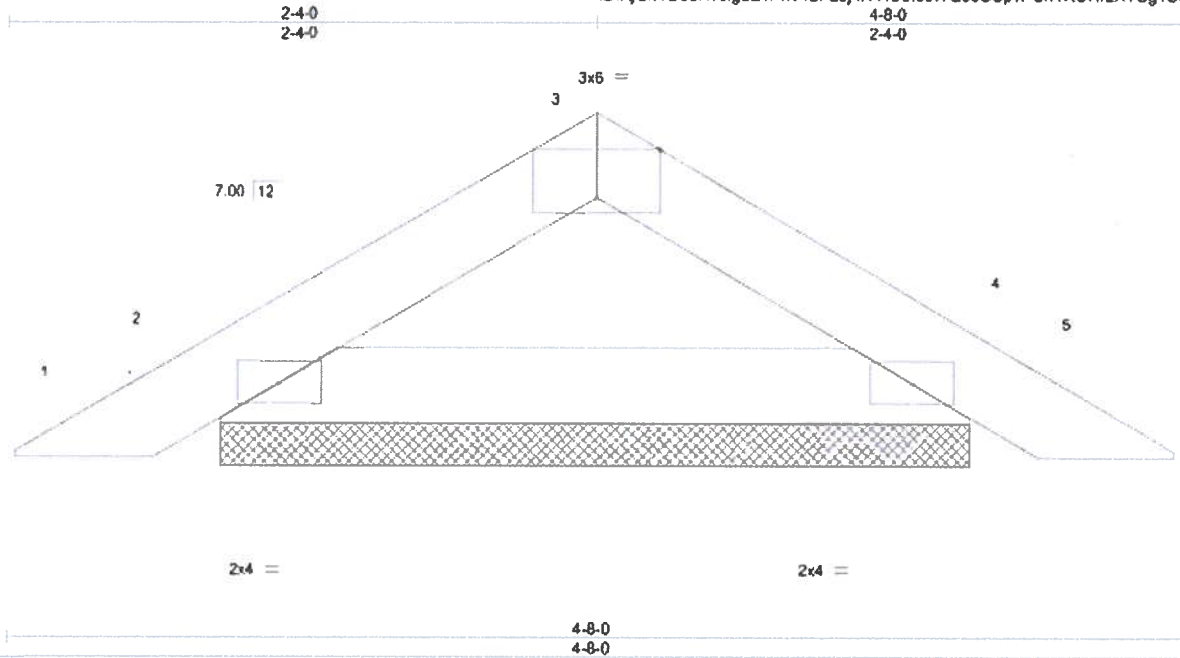


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March 17, 2020

Builders FirstSource Jacksonville, FL - 32244

Job Reference (optional)
8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:35 2020 Page 1
ID KyGkVDouK1eiguE1Pn?12Pzby4X-AO0I3cWQ9cOSpvPChTKUhr2X1Gg1OoXf4zKsoCza0YA



Scale = 1/8" = 1'-0"

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	0.00	in (loc)	4	l/defl	L/d	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00		4	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix	P							Weight: 12 lb	FT = 20%

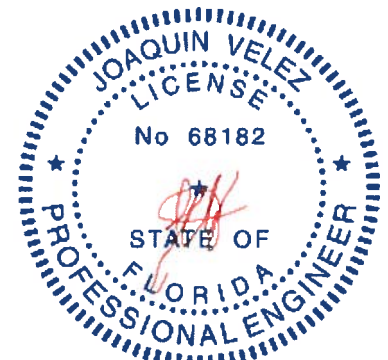
LUMBER-
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-11-11, 4=2-11-11
Max Horz 2=29(LC 11)
Max Uplift 2=33(LC 12), 4=33(LC 13)
Max Grav 2=139(LC 1), 4=139(LC 1)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, End, GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Tampa, FL 33610

Job 2292653	Truss PB01G	Truss Type PIGGYBACK	Qty 2	Ply 1	SMITHEY - LOT 44 CW	T19711838
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Builders FirstSource Jacksonville, FL - 32244, 8 240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:36 2020 Page 1
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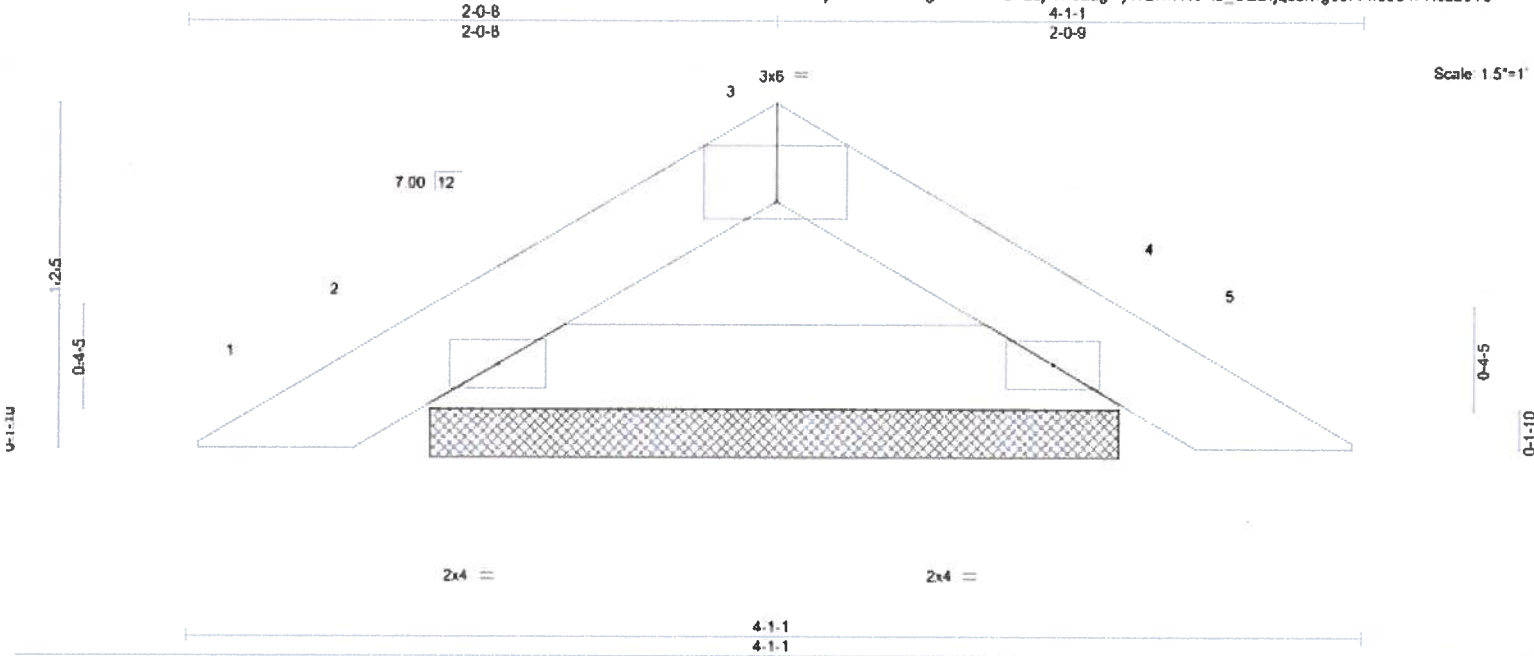


Plate Offsets (X,Y)--	[3 0-3-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.03	Vert(LL)	0.00 4	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.07	Vert(CT)	0.00 4	n/r	120		
BCLL 0.0	Rep Stress Incr YES		WB 0.00	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-P					Weight: 11 lb	FT = 20%

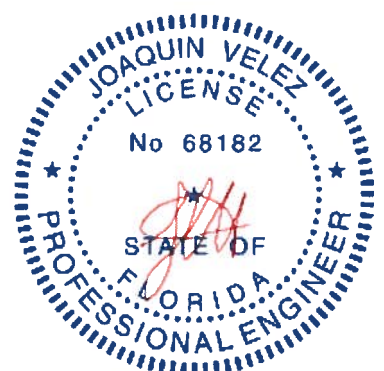
LUMBER-
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP No 2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-1-1 oc purlins
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-4-12, 4=2-4-12
 Max Horz 2=-25(LC 10)
 Max Uplift 2=-29(LC 12), 4=-29(LC 13)
 Max Grav 2=118(LC 1), 4=118(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, End., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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March 17,2020



Scale = 1:48 B

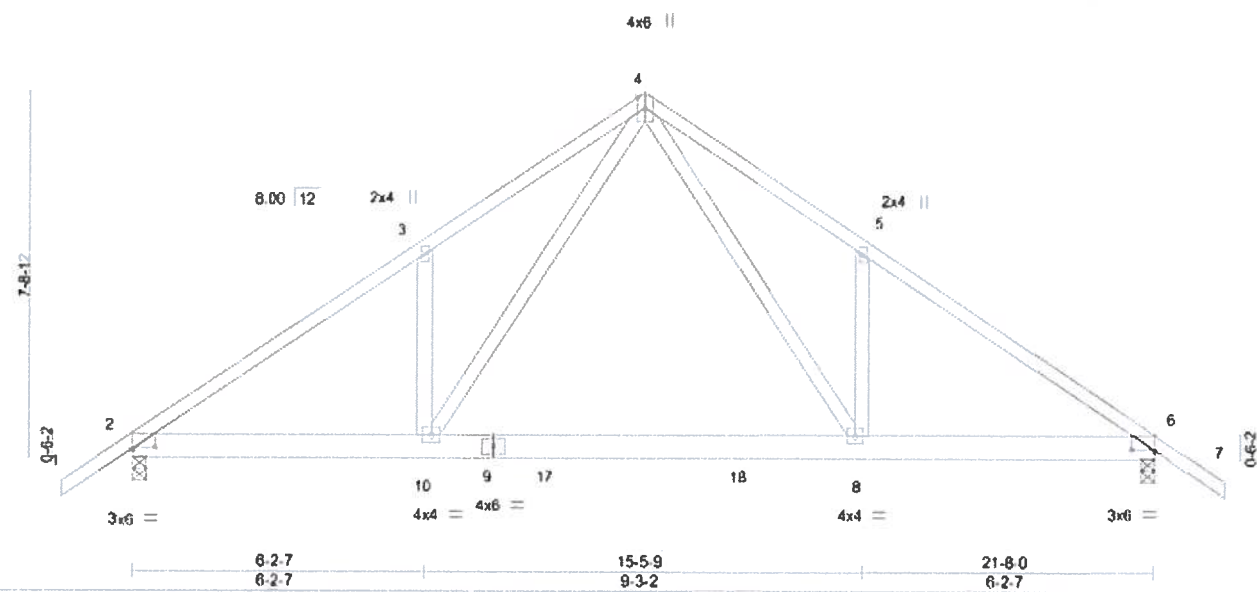


Plate Offsets (X, Y) - [2 0-6-0,0-0-9] [3 0-0-0,0-0-0] [6 0-6-0 0-0-9]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.81	Vert(LL) -0.16 8-10 >999 240		
BCLL 0.0	Lumber DOL 1.25	WB 0.78	Vert(CT) -0.32 8-10 >807 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 6 n/a n/a		
	Code FBC2017/TPI2014			Weight 132 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No 3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-14 oc purlins
 BOT CHORD Rigid ceiling directly applied or 9-9-15 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=256(LC 11)
 Max Uplift 2=-468(LC 12), 6=-468(LC 13)
 Max Grav 2=1174(LC 19), 6=1174(LC 20)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1750/711, 3-4=-1814/908, 4-5=-1814/908, 5-6=-1750/711
 BOT CHORD 2-10=-538/1546, 8-10=-242/956, 6-8=-438/1408
 WEBS 4-8=-554/1104, 5-8=-369/342, 4-10=-554/1104, 3-10=-369/342

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10: Vult=130mph (3-second gust) Vasd=101mph. TCCL=4.2psf. BCDL=3.0psf; h=18ft. Cat. II, Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (t=lb) 2=468, 6=468.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert. 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=60), 8-14=-20



Joaquin Velez PE No. 68182
 MITek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 17, 2020

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Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCS Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
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Job 2292653	Truss T01G	Truss Type Common Supported Gable	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T19711840
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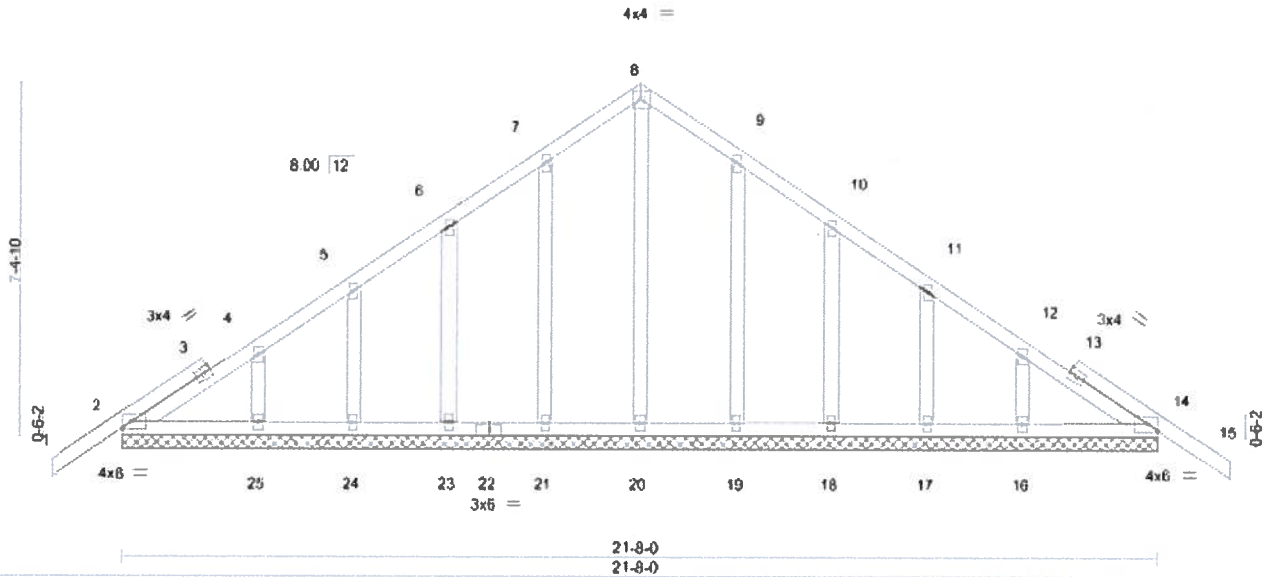
Builders FirstSource Jacksonville, FL - 32244,

8 240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:49 2020 Page 1

ID:KjGkVDouK1aiguE1Pn?12Pzbj4X-m4tb?PhCaw9TV3UuVpamrodunvT7g5dj&jbGOza0Xy



Scale: 1/4"=1'



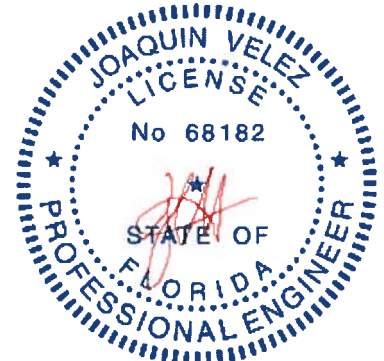
LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vent(LL)	-0.01	15	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vent(CT)	-0.01	15	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-S					Weight: 134 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins
BOT CHORD 2x4 SP No 2	BOT CHORD Rigid coiling directly applied or 10-0-0 oc bracing
OTHERS 2x4 SP No 3	

REACTIONS. All bearings 21-8-0
 (lb) - Max Horz 2=-245(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14 except 21=-113(LC 12), 23=-113(LC 12), 24=-112(LC 12), 25=-111(LC 12), 19=-110(LC 13), 18=-114(LC 13), 17=-112(LC 13), 16=-114(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 18

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14 except (jt=lb) 21=113, 23=113, 24=112, 25=111, 19=110, 18=114, 17=112, 16=114.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



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March 17, 2020

Scale = 1/8" = 1'-0"

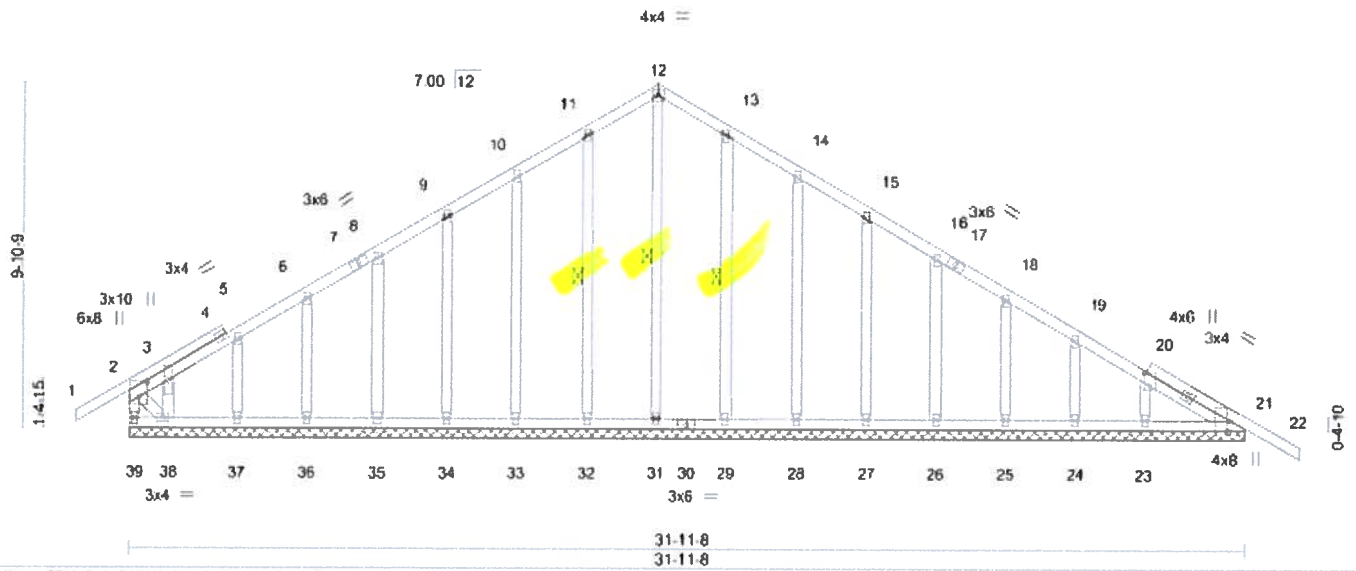


Plate Offsets (X, Y) = [2 0-5-0 0-2-8] [20 0-4-8, 0-1-12] [21 0-3-8, Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.06	Ver(L) -0.01 22 n/r 120		
BCLL 0.0	Lumber DOL 1.25	WB 0.13	Ver(CT) -0.01 22 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 21 n/a n/a		
	Code FBC2017/TPI2014			Weight: 230 lb	FT = 20%

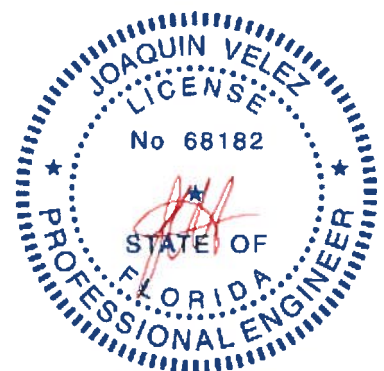
LUMBER-
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP No 2
 WEBS 2x4 SP No 3
 OTHERS 2x4 SP No 3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 38-39
 WEBS 1 Row at midpt 12-31, 11-32, 13-29

REACTIONS. All bearings 31-11-8
 (lb) - Max Horz 39=309(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 37, 29, 24, 21 except 39=241(LC 8), 33=105(LC 12), 34=101(LC 12), 35=101(LC 12), 36=103(LC 12), 38=278(LC 12), 28=107(LC 13), 27=101(LC 13), 26=102(LC 13), 25=102(LC 13), 23=110(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 31, 32, 33, 34, 35, 36, 37, 29, 28, 27, 26, 25, 24, 21, 23 except 39=330(LC 20), 38=261(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-39=317/234, 10-11=208/258, 11-12=256/304, 12-13=256/305
 BOT CHORD 38-39=290/289
 WEBS 2-38=254/330

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, End1, GCPI=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.80 plate grip DOL=1.80
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSITPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 37, 29, 24, 21 except (jt=lb) 39=241, 33=105, 34=101, 35=101, 36=103, 38=278, 28=107, 27=101, 26=102, 25=102, 23=110.



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March 17, 2020

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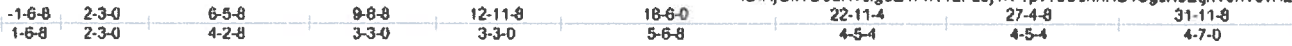
Design valid for use only with MITek's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 215 N. Lee Street, Suite 312, Alexandria, VA 22314



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8.240 a Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:58 2020 Page 1
 ID:KjGkVDouK1eiguE1Pn?12Pzbj4X-?pv7uUorhHB4SgcXoEjrhVJnYJvHzd2N2PZ5Mza0Xp



Scale = 1/59.8

2-3-0	6-6-8	9-8-8	12-11-8	18-6-0	22-11-4	27-4-8	31-11-8
2-3-0	4-2-8	3-3-0	3-3-0	5-6-8	4-5-4	4-5-4	4-7-0
Plate Offsets (X,Y) -- [2 0-2-14 0-2-0] [4 0-1-12 0-3-12] [7 0-4-0-0-4-8] [12 0-3-8-0-2-8] [13 0-4-0-0-4-8] [16 0-6-4-Edge] [19 0-5-8-Edge] [21 Edge,0-4-8]							

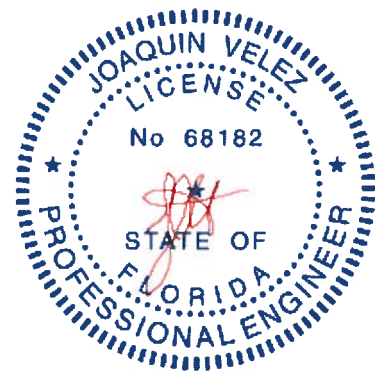
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	ln (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	0.29	16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.44	18	>867	180	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.94	Horz(CT)	0.18	11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							
									Weight 262 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No 2 *Except* 1-4: 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 2-5-6 oc purlins, except end verticals.
BOT CHORD 2x6 SP No 2 *Except* 3-20 2x4 SP No 3, 16-19 2x6 SP M 26, 6-15 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied or 5-10-10 oc bracing.
WEBS 2x4 SP No 3 *Except* 14-16,8-14, 10-12,2-19,9-13: 2x4 SP No 2	WEBS 1 Row at midpt 10-11

REACTIONS. (size) 11=0-3-8, 21=0-3-0
 Max Horz 21=140(LC 8)
 Max Uplift 11=1132(LC 5), 21=1074(LC 8)
 Max Grav 11=2561(LC 1), 21=2486(LC 1)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4173/1988, 3-4=-4235/2038, 4-5=-4798/2252, 5-6=-4797/2251, 6-7=-5512/2537,
 7-8=-4312/1939, 8-9=-3550/1588, 9-10=-2150/956, 10-11=-2461/1129, 2-21=-2349/1093
 BOT CHORD 20-21=-142/263, 18-19=-1871/3723, 17-18=-1794/3631, 16-17=-2550/5544,
 6-18=-105/455, 14-15=-220/525, 13-14=-1591/3555, 12-13=-956/2150
 WEBS 3-18=-342/307, 4-18=-323/558, 4-17=-741/1825, 6-17=-1117/462, 14-16=-1778/3905,
 7-16=-693/1398, 7-14=-1364/768, 8-14=-515/1118, 8-13=-1275/673, 10-12=-1384/3111,
 2-19=-1627/3487, 9-12=-2028/1027, 9-13=-925/2049

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft. Cat. II, Exp C, End., GCpl=0.18, MWFRS (envelope), end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-8-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=1b) 11=1132, 21=1074.



Joaquin Velez PE No.68182
 MITek USA, Inc. FL Cert 6634
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March 17,2020

Continued on page 2

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 Design valid for use only with MITek2 connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCS/ Building Component Safety Information available from Truss Plate Institute 218 N. Lee Street, Suite 312, Alexandria, VA 22314



Job 2292853	Truss T03	Truss Type Half Hip Girder	Qty 1	Ply 1	SMITHEY - LOT 44 CW Job Reference (optional)	T19711843
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8 240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:20:58 2020 Page 2
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NOTES-

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 182 lb up at 6-5-8, 50 lb down and 29 lb up at 8-6-4, 50 lb down and 29 lb up at 10-6-4, 50 lb down and 29 lb up at 12-6-4, 142 lb down and 124 lb up at 14-6-4, 142 lb down and 124 lb up at 16-6-4, 142 lb down and 124 lb up at 18-6-4, 142 lb down and 124 lb up at 20-6-4, 142 lb down and 124 lb up at 22-6-4, 142 lb down and 124 lb up at 24-6-4, 142 lb down and 124 lb up at 26-6-4, and 142 lb down and 124 lb up at 28-6-4, and 142 lb down and 124 lb up at 30-6-4 on top chord, and 410 lb down and 346 lb up at 6-5-8, 201 lb down and 108 lb up at 8-6-4, 201 lb down and 108 lb up at 10-6-4, 201 lb down and 108 lb up at 12-6-4, 88 lb down and 22 lb up at 14-6-4, 88 lb down and 22 lb up at 16-6-4, 88 lb down and 22 lb up at 18-6-4, 88 lb down and 22 lb up at 20-6-4, 88 lb down and 22 lb up at 22-6-4, 88 lb down and 22 lb up at 24-6-4, 88 lb down and 22 lb up at 26-6-4, and 88 lb down and 22 lb up at 28-6-4, and 88 lb down and 22 lb up at 30-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 4-10=-54, 20-21=-20, 16-19=-20, 11-15=-20

Concentrated Loads (lb)

Vert: 4=-70(F) 18=-392(F) 7=-110(F) 14=-63(F) 25=-110(F) 26=-110(F) 27=-110(F) 28=-110(F) 29=-110(F) 30=-110(F) 31=-110(F) 32=-110(F) 33=-195(F) 34=-195(F) 35=-195(F) 36=-63(F) 37=-63(F) 38=-63(F) 39=-63(F) 40=-63(F) 41=-63(F) 42=-63(F) 43=-63(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MJ-743 rev. 10/3/2015 BEFORE USE
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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 -1-6-8 2-3-0 5-5-15 6-6-15 12-11-8 18-8-14 25-3-5 31-11-8
 1-6-8 2-3-0 3-2-15 3-2-15 4-2-10 5-9-6 6-6-7 6-6-3

Scale = 1:56.7

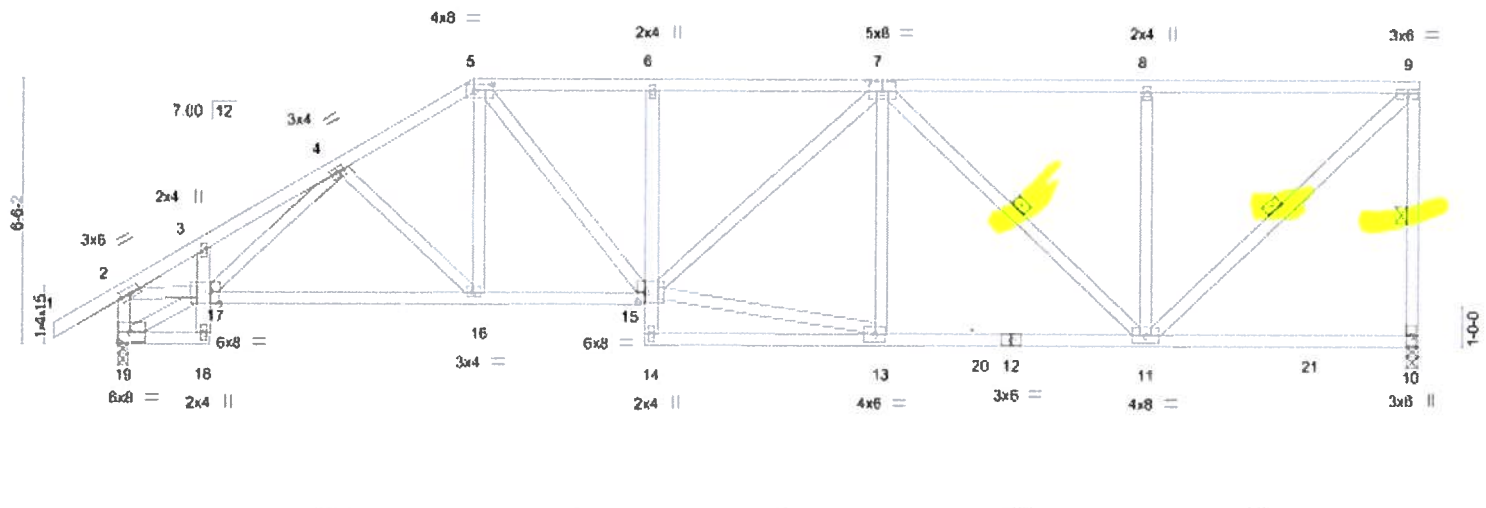


Plate Offsets (X, Y)-- [5 0-5-8 0-2-0], [7 0-4-0 0-3-0], [15 0-2-8 0-2-12], [17 0-2-12, Edge]

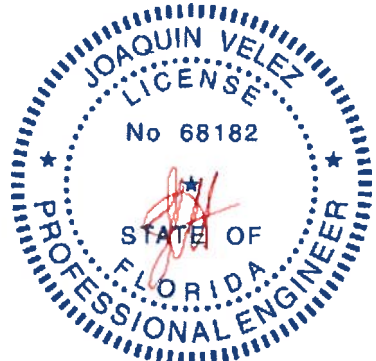
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.09	6	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.19	16-17	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 219 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals.
BOT CHORD 2x4 SP No 2 *Except* 3-18.6-14: 2x4 SP No 3	BOT CHORD Rigid ceiling directly applied or 6-1-5 oc bracing.
WEBS 2x4 SP No 3	WEBS 1 Row at midpt 9-10, 7-11, 9-11

REACTIONS. (size) 10=0-3-8, 19=0-3-0
 Max Horz 19=187(LC 12)
 Max Uplift 10=311(LC 9), 19=233(LC 9)
 Max Grav 10=1169(LC 1), 19=1265(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1793/986, 3-4=-1860/1086, 4-5=-1689/856, 5-6=-1727/918, 6-7=-1719/915,
 7-8=-1024/515, 8-9=-1024/515, 9-10=-1111/598, 2-19=-1214/716
 BOT CHORD 16-17=-945/1561, 15-16=-776/1420, 6-15=-279/214, 11-13=-757/1477
 WEBS 4-17=-182/286, 4-16=-309/235, 5-16=-128/352, 5-15=-224/479, 13-15=-730/1393,
 7-15=-216/331, 7-11=-625/333, 8-11=-388/299, 9-11=-702/1393, 2-17=-765/1502

- NOTES-**
- 1) Wind ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph. TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=311, 19=233.



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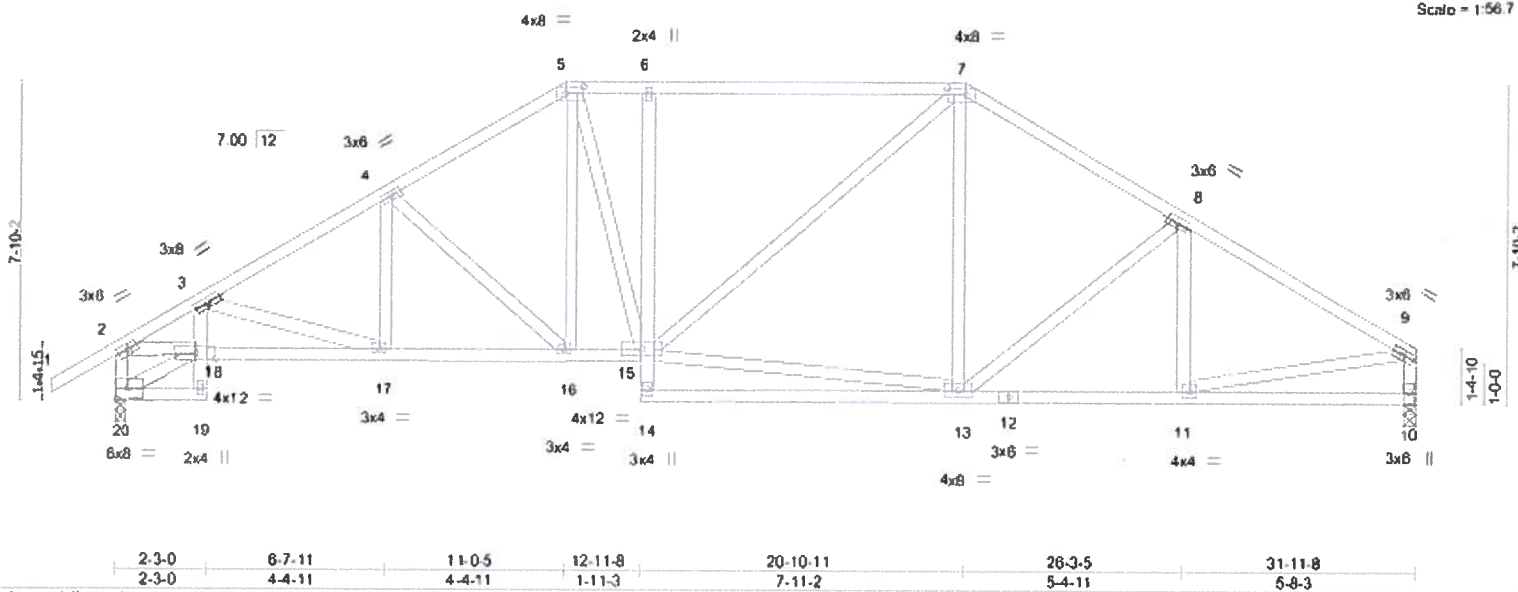
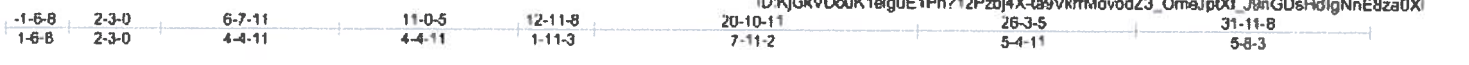
March 17, 2020

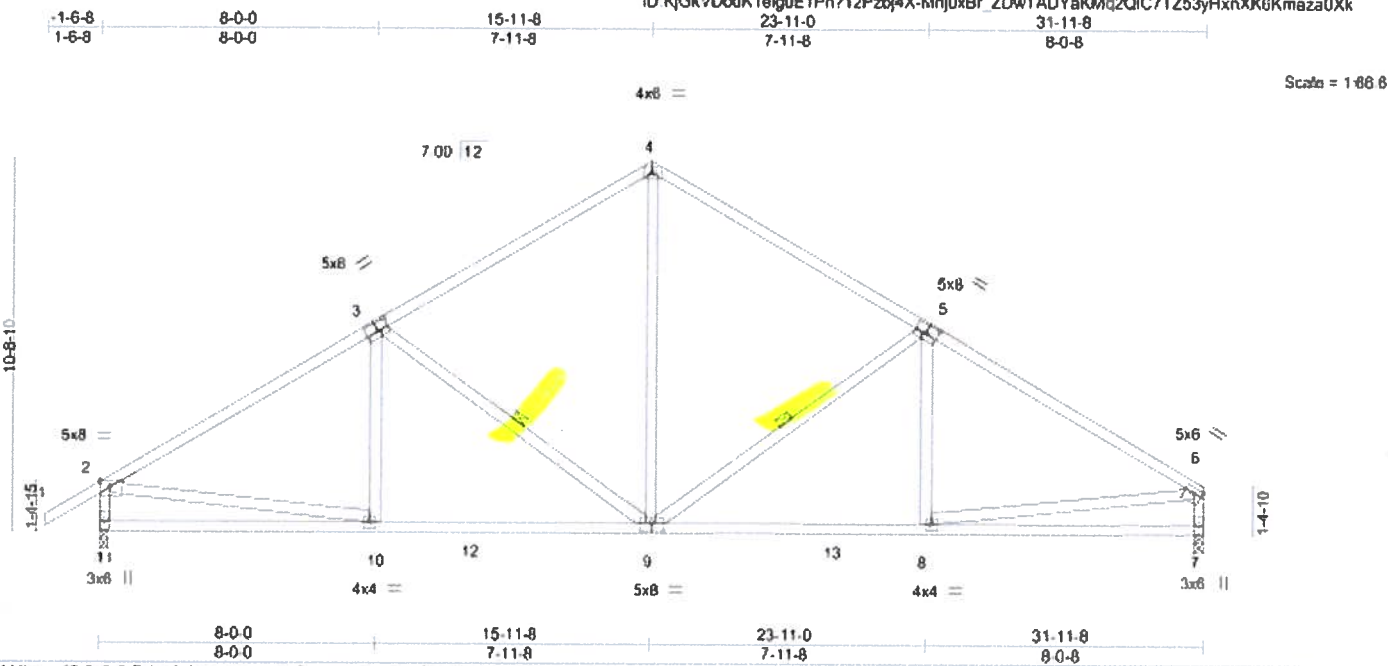
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE

Design valid for use only with Mitek connectors. This design is based only upon parameters shown and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DS8-89 and BCSI Building Component Safety Information available from Truss Plate Institute 218 N Lee Street, Suite 312, Alexandria, VA 22314.



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 Tampa, FL 33610





LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.65	Vert(LL) -0.10 7-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.74	Vert(CT) -0.21 7-8 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 7 n/a n/a		
	Code FBC2017/TPI2014			Weight: 191 lb	FT = 20%

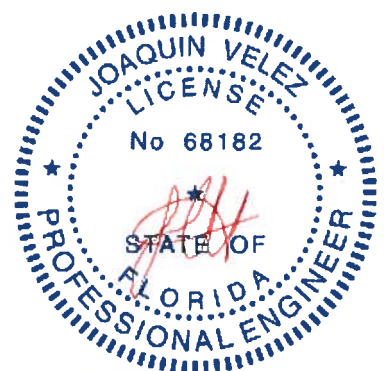
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.
 WEBS 1 Row at midpt 3-9, 5-9

REACTIONS. (size) 11=0-3-0, 7=0-3-8
 Max Horz 11=-272(LC 10)
 Max Uplift 11=-269(LC 12), 7=-238(LC 13)
 Max Grav 11=1265(LC 1), 7=1189(LC 1)

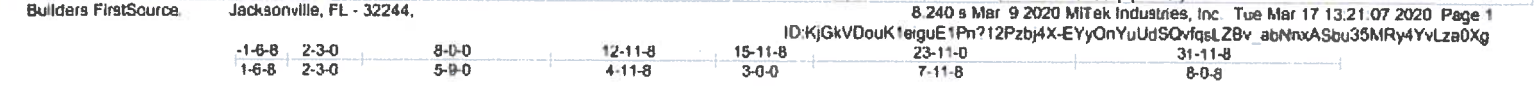
FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1566/686, 3-4=-1202/630, 4-5=-1205/633, 5-6=-1577/884, 2-11=-1192/624, 6-7=-1098/518
 BOT CHORD 10-11=-295/385, 9-10=-478/1424, 8-9=-483/1281
 WEBS 3-9=-559/338, 4-9=-354/809, 5-9=-575/344, 2-10=-336/1113, 6-8=-387/1133

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10: Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, End, GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone, end vertical left exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=1b) 11=269, 7=238.



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March 17, 2020



Scale = 1:88 B

Plate Offsets (X, Y) -- [2 0-3-0-1-8] [4 0-4-13,Edge] [8 0-2-0-0-1-8] [9 0-3-0-0-1-8] [10 0-1-0-0-1-8] [16 0-2-12-0-2-0]

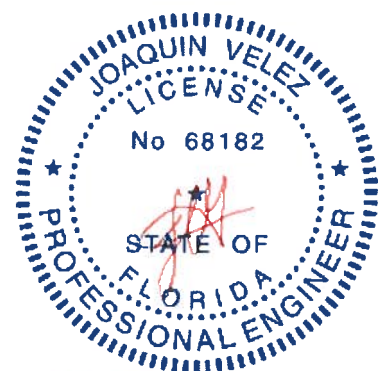
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.93	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.67	Vert(LL) -0.11 12-14 >999 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.86	Vert(CT) -0.23 12-14 >999 180		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS	Horz(CT) 0.11 11 n/a n/a	Weight 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 3-19,6-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-9-11 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-14, 9-14
OTHERS 2x4 SP No.3	

REACTIONS. (size) 11=0-3-8, 20=0-3-0
 Max Horz 20=327(LC 9)
 Max Uplift 11=-427(LC 13), 20=-483(LC 12)
 Max Grav 11=1169(LC 1), 20=1265(LC 1)

FORCES. (lb) - Max Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2130/917, 3-4=-1801/798, 4-6=-1469/726, 6-7=-1552/829, 7-9=-1208/633,
 9-10=-1587/690, 2-20=-1257/586, 10-11=-1098/518
 BOT CHORD 17-18=-1043/2176, 16-17=-629/1613, 6-16=-262/212, 12-14=-492/1295
 WEBS 3-17=-575/424, 4-17=-34/280, 4-16=-466/313, 14-16=-225/997, 7-16=-509/981,
 7-14=-174/252, 9-14=-587/391, 2-18=-758/1786, 10-12=-408/1151, 18-20=-318/290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II, Exp C, End., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone, end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=lb) 11=427, 20=483.



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Scale = 1:68.0

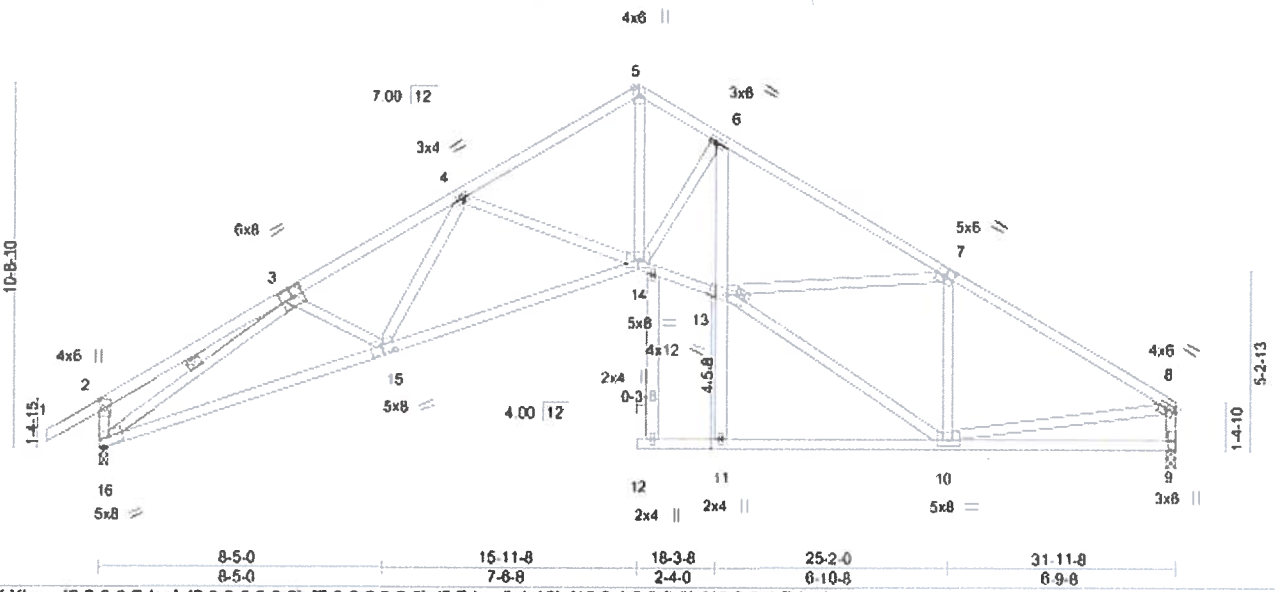


Plate Offsets (X, Y)-- [2 0-3-0 Edge], [3 0-3-8, 0-3-0], [7 0-3-0, 0-3-0], [8 Edge 0-1-12], [15 0-4-0, 0-3-0], [16 0-3-1 Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	0.22	12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.45	14-15	>846	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.32	9	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight: 215 lb	FT = 20%

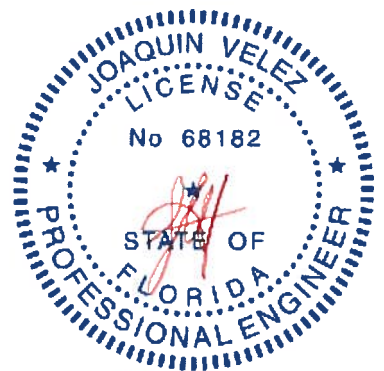
LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No 2 *Except* 14-15, 15-16 2x4 SP M 31, 6-11: 2x4 SP No 3	BOT CHORD Rigid ceiling directly applied or 8-0-10 oc bracing. Except: 10-0-0 oc bracing; 11-13
WEBS 2x4 SP No 3	WEBS 1 Row at midpt 3-16
	JOINTS 1 Brace at Jt(s): 13

REACTIONS. (size) 9=0-3-8, 16=0-3-0
 Max Horz 16=-273(LC 10)
 Max Uplift 9=-241(LC 13), 16=-294(LC 12)
 Max Grav 9=1235(LC 1), 16=1407(LC 1)

FORCES. (lb) - Max Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-398/260, 3-4=-2899/1198, 4-5=-2394/923, 5-8=-2356/962, 6-7=-2717/1033, 7-8=-1666/692, 2-16=-428/318, 8-9=-1170/524
 BOT CHORD 15-16=-946/2551, 14-15=-819/2587, 13-14=-624/2364, 6-13=-109/359
 WEBS 3-15=0/277, 4-15=-80/265, 4-14=-557/377, 5-14=-826/2154, 6-14=-547/305, 10-13=-599/1623, 7-13=-108/945, 7-10=-992/459, 3-16=-2667/999, 8-10=-433/1250

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpl=0.18, MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (1=1b) 9=241, 16=294.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-5=-54, 5-8=-54, 14-16=-30(F=-10), 13-14=-20, 11-12=-20, 9-11=-20



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Scale = 1/8" = 6'

Plate Offsets (X, Y)--	[2 0-3-0, Edge], [3 0-3-4, 0-3-0], [7 0-3-4, 0-3-0], [8 0-3-0, Edge], [10 0-3-1, Edge], [11 0-4-0, 0-3-0], [13 0-4-0, 0-3-0], [14 0-3-1, Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.65	Vert(LL) -0.24 11-12 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT) -0.47 11-12 >799 180		
BCLL 0.0	Rep Stress Incr NO	WB 0.81	Horz(CT) 0.38 10 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS		Weight: 181 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP M 31
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-2-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.
 WEBS 1 Row at midpt 3-14, 7-10

REACTIONS. (size) 14=0-3-0, 10=0-3-0
 Max Horz 14=-298(LC 10)
 Max Uplift 14=-311(LC 12), 10=-311(LC 13)
 Max Grav 14=1419(LC 1), 10=1419(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-401/259, 3-4=-2939/1219, 4-5=-2444/951, 5-6=-2444/951, 6-7=-2941/1207, 7-8=-396/257, 2-14=-428/316, 8-10=-424/317
 BOT CHORD 13-14=920/2816, 12-13=-792/2664, 11-12=-788/2584, 10-11=-900/2479
 WEBS 5-12=-773/2153, 6-12=-549/372, 6-11=-99/271, 7-11=-38/267, 4-12=-548/367, 4-13=-81/271, 3-13=0/267, 3-14=-2700/997, 7-10=-2700/1027

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C, End. GcPc=0.18; MWFRS (envelope) and C-C Exterior(2) zone, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-8-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=1b) 14=311, 10=311.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=54, 2-5=54, 5-8=54, 8-9=54, 12-14=30(F=-10), 10-12=30(F=-10)



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8 240 s Mar 9 2020 MiTek Industries, Inc. Tue Mar 17 13:21:12 2020 Page 1
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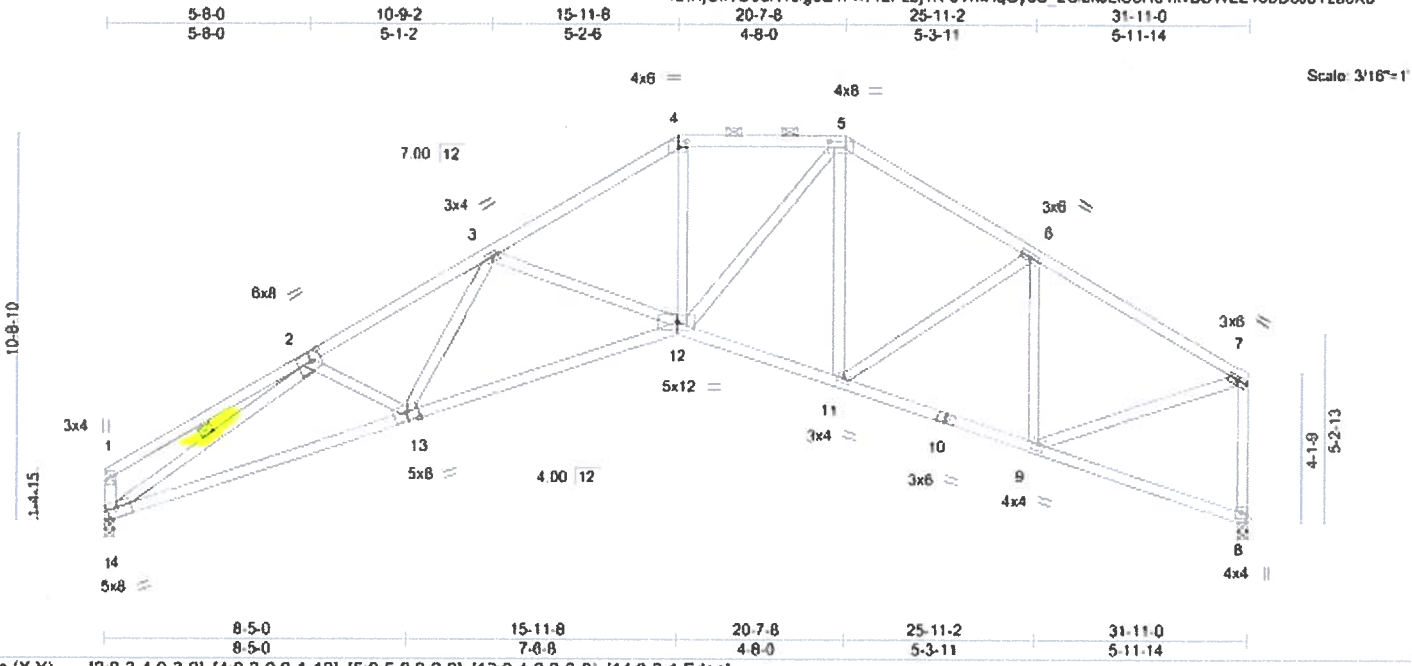


Plate Offsets (X, Y)--	[2 0-3-4,0-3-0], [4 0-3 0,0-1-12], [5 0-5 8 0-2-0], [13 0-4 0 0-3-0], [14 0-3-1 Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.53	Vert(LL) -0.19 12-13 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT) -0.39 12-13 >983 180		
BCLL 0.0	Rep Stress Incr NO	WB 0.81	Horz(CT) 0.27 8 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS		Weight: 194 lb	FT = 20%

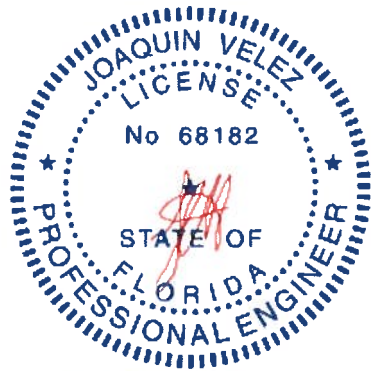
LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-11 max.): 4-5.
BOT CHORD 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 7-0-3 oc bracing.
WEBS 2x4 SP No 3	WEBS 1 Row at midpt 2-14

REACTIONS. (size) 14=0-3-0, 8=0-3-0
 Max Horz 14=253(LC 9)
 Max Uplift 14=-274(LC 12), 8=-253(LC 13)
 Max Grav 14=1328(LC 1), 8=1328(LC 1)

FORCES. (lb) - Max Comp /Max Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-338/215, 2-3=-2988/1406, 3-4=-2452/1160, 4-5=-2047/1055, 5-6=-1757/883,
 6-7=-1484/685, 1-14=-304/201, 7-8=-1257/601
 BOT CHORD 13-14=-1245/2553, 12-13=-1149/2606, 11-12=-541/1540, 9-11=-542/1313
 WEBS 2-13=-26/264, 3-13=-60/280, 3-12=-572/350, 4-12=-396/948, 5-12=-362/935,
 6-11=-132/330, 6-9=-623/346, 2-14=-2763/1247, 7-9=-525/1266

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCCL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone, end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 14, 8 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=1b) 14=274, 8=253.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-5=-54, 5-7=-54, 12-14=-30(F=-10), 8-12=-30(F=-10)



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Scale: 3/16"=1'

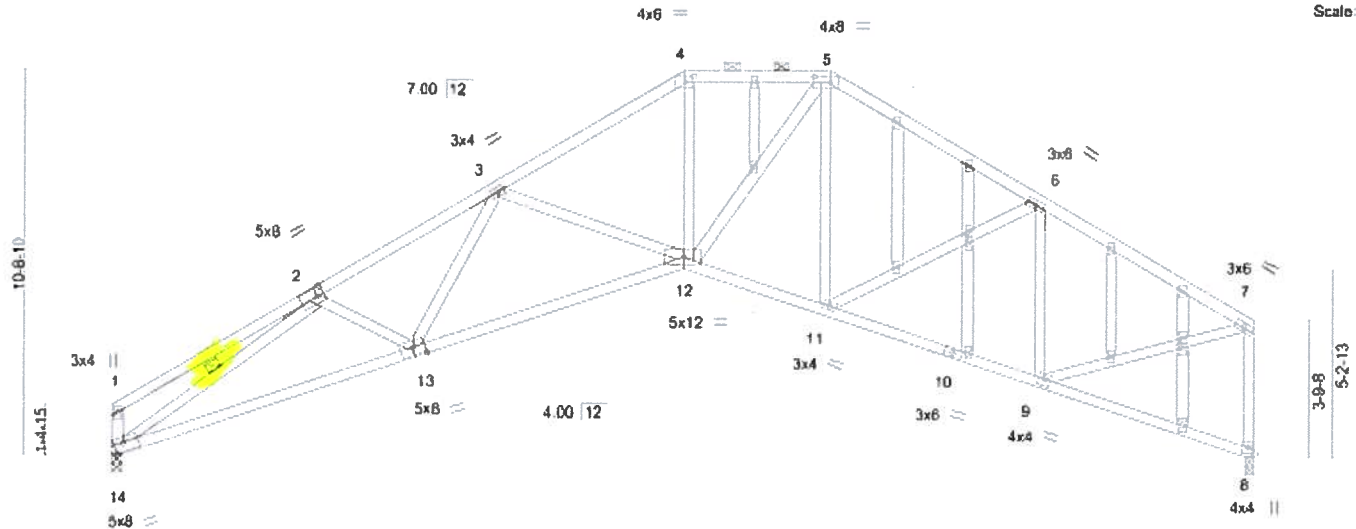


Plate Offsets (X, Y) -- [2 0-2-0,0-3-0], [4 0-3-0,0-1-12], [5 0-5-8,0-2-0], [13 0-4-0,0-3-0], [14 0-3-1 Edge], [17 0-1-10,0-1-0], [22 0-1-15,0-1-0]

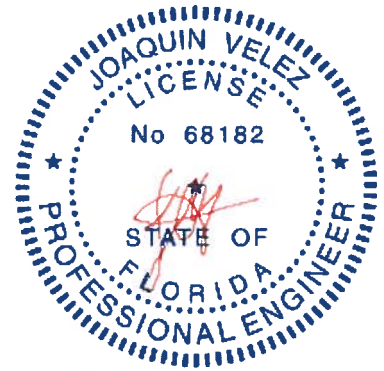
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	-0.17 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.37 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.28 8	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight 220 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-5 max.); 4-5.
BOT CHORD 2x4 SP No 2	BOT CHORD Rigid ceiling directly applied or 5-3-10 oc bracing.
WEBS 2x4 SP No 3	WEBS 1 Row at midpt 2-14
OTHERS 2x4 SP No 3	

REACTIONS. (size) 14=0-3-0, 8=0-3-0
 Max Horz 14=306(LC 11)
 Max Uplift 14=-237(LC 12), 8=-217(LC 13)
 Max Grav 14=1170(LC 1), 8=1170(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-302/196, 2-3=-2608/1283, 3-4=-2167/1084, 4-5=-1818/989, 5-6=-1643/842, 6-7=-1404/645, 1-14=-285/192, 7-8=-1125/549
 BOT CHORD 13-14=-1217/2309, 12-13=-1126/2296, 11-12=-579/1420, 9-11=-593/1235
 WEBS 3-12=-538/351, 4-12=-374/863, 5-12=-331/802, 6-11=-145/281, 6-9=-567/355, 2-14=-2463/1122, 7-9=-523/1176

- NOTES-
- Unbalanced roof live loads have been considered for this design
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf; h=18ft; Cat. II, Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone, end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=237, 8=217.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 Date:

March 17, 2020

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ID:KjGkVDouK1eiguE1Pn?12Pzb4X-74RQSI?VkvRnc3Tu0t2svHlBHOBPmnlYHB0zBtza0XY

8-0-0 15-11-8 20-0-9 25-11-2 31-11-0
8-0-0 7-11-8 4-1-1 5-10-9 5-11-14

Scale: 3/16"=1'

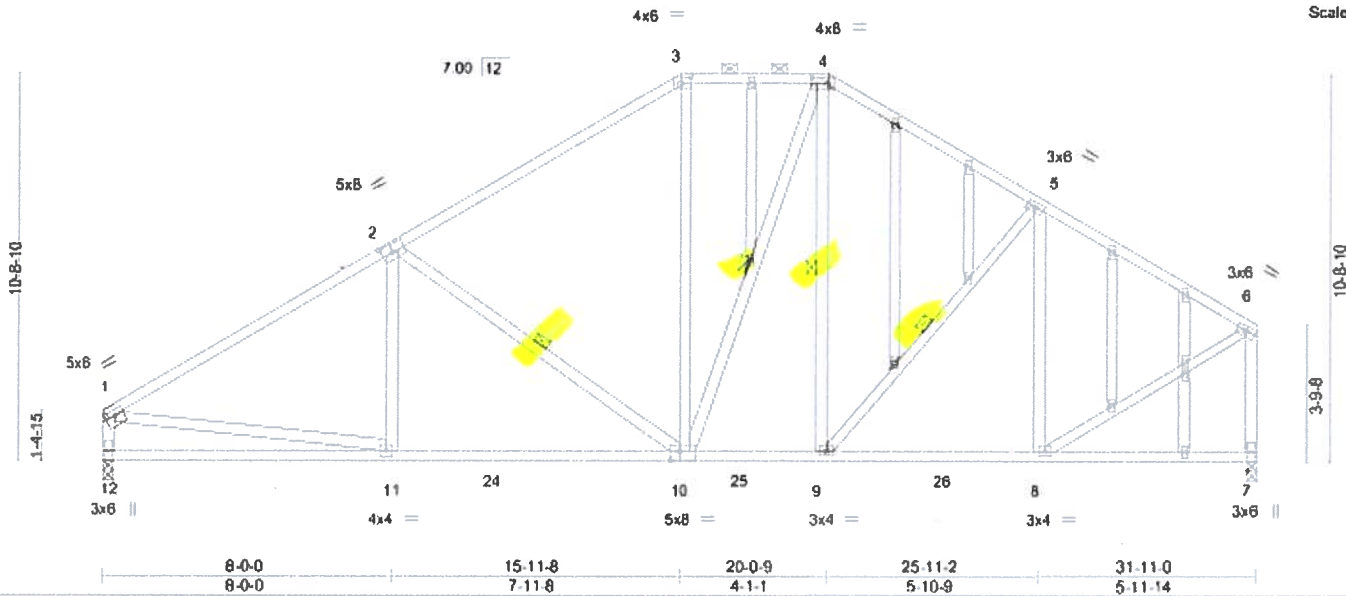


Plate Offsets (X, Y)-- [1 Edge, 0-1-12] [2, 0-4-0, 0-3-0] [3, 0-3-8 0-2-0] [4, 0-5-8 0-2-0] [10, 0-2-12 0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/d	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.10 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.20 10-11	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight: 257 lb	FT = 20%

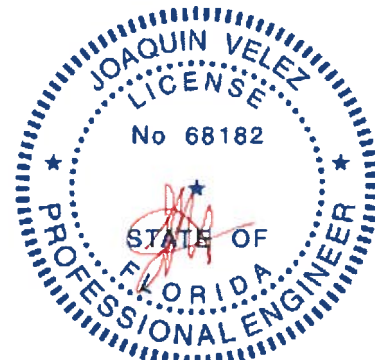
LUMBER-
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP No 2
 WEBS 2x4 SP No 3
 OTHERS 2x4 SP No 3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-9 max.); 3-4.
 BOT CHORD Rigid ceiling directly applied or 7-2-13 oc bracing
 WEBS 1 Row at midpt 2-10, 4-10, 4-9, 5-9

REACTIONS. (size) 12=0-3-0, 7=0-3-0
 Max Horz 12=381(LC 9)
 Max Uplift 12=423(LC 12), 7=387(LC 13)
 Max Grav 12=1170(LC 1), 7=1170(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1575/689, 2-3=-1174/641, 3-4=-1017/632, 4-5=-1062/630, 5-6=-1037/520,
 1-12=-1098/524, 6-7=-1119/532
 BOT CHORD 11-12=-403/429, 10-11=-864/1475, 9-10=-341/876, 8-9=-403/838
 WEBS 2-10=-608/399, 3-10=-102/335, 4-10=-183/289, 4-9=-115/263, 5-8=-366/259,
 1-11=-411/1133, 6-8=-410/956

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph. TCDL=4.2psf. BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone, end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-8-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=lb) 12=423, 7=387.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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March 17, 2020

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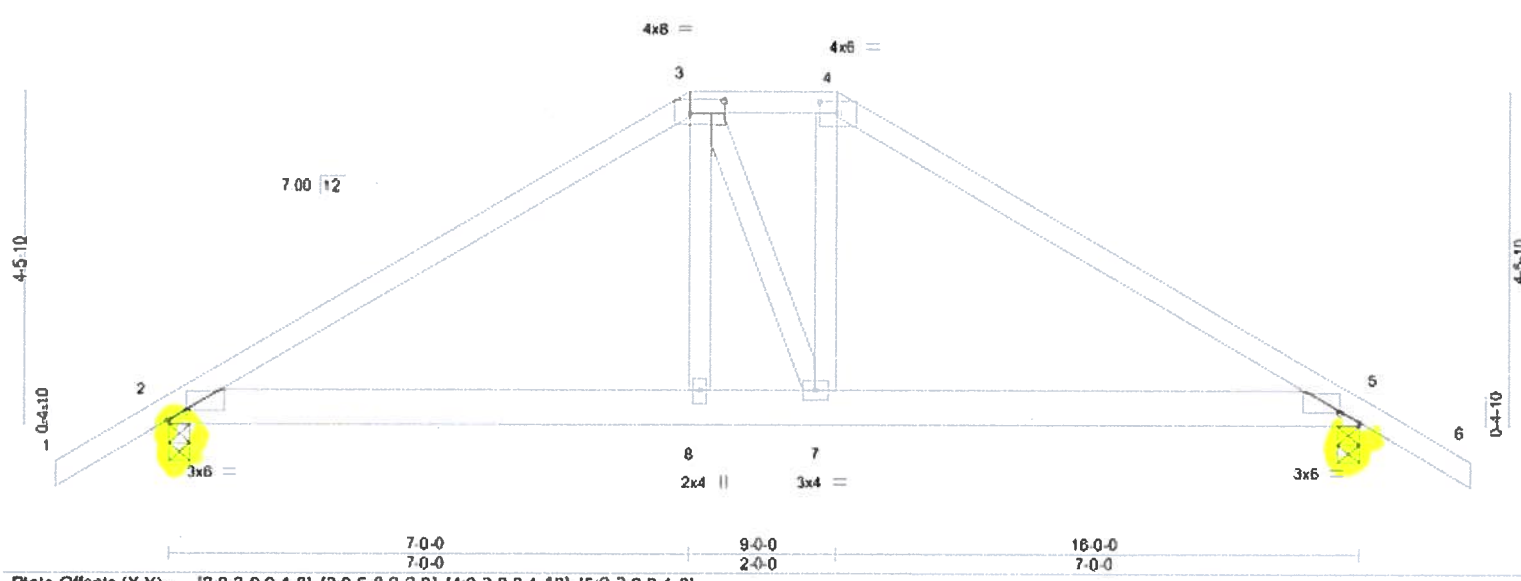


Plate Offsets (X, Y) = [2 0-3-0-0-1-8], [3 0-5-8-0-2-0], [4 0-3-0 0-1-12], [5 0-3-0 0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	0.08	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.10	8-10	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						Weight 87 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No 2	TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins
BOT CHORD 2x8 SP No 2	BOT CHORD Rigid ceiling directly applied or 7-4-11 oc bracing.
WEBS 2x4 SP No 3	

REACTIONS. (size) 2=0-3-8, 5=0-3-8
 Max Horz 2=-124(LC 25)
 Max Uplift 2=-637(LC 5), 5=-645(LC 4)
 Max Grav 2=1150(LC 1), 5=1159(LC 1)

FORCES. (lb) - Max Comp /Max Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1732/1060, 3-4=-1452/960, 4-5=-1756/1067
 BOT CHORD 2-8=-937/1415, 7-8=-951/1432, 5-7=-918/1436
 WEBS 3-8=-380/515, 4-7=-326/518

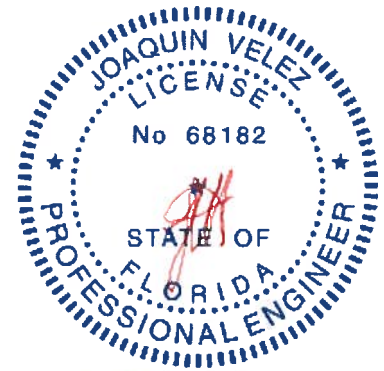
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II, Exp C; Endl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=637, 5=645.
 - Hangar(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 137 lb down and 128 lb up at 7-0-0, and 230 lb down and 294 lb up at 9-0-0 on top chord, and 355 lb down and 328 lb up at 7-0-0, and 355 lb down and 328 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
 Vert: 1-3=-54, 3-4=-54, 4-6=-54, 2-5=-20

Concentrated Loads (lb)
 Vert: 3=-110(F) 4=-183(F) 8=-335(F) 7=-335(F)



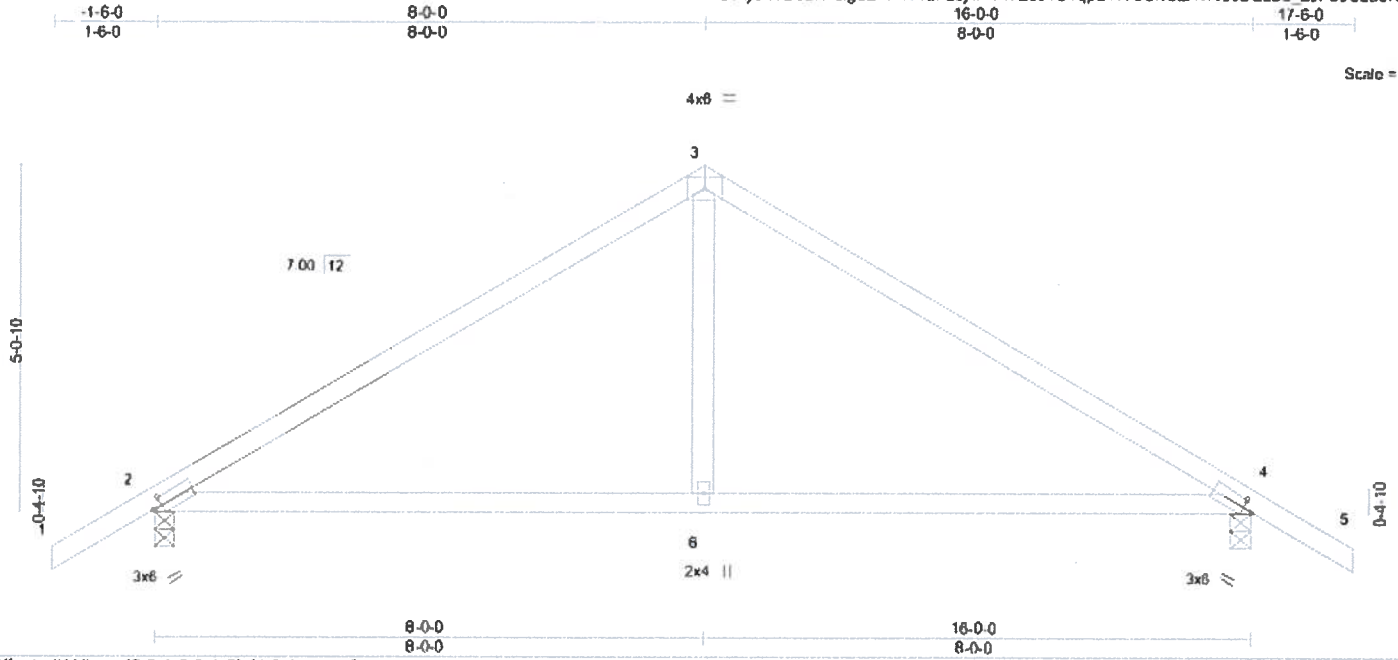
Joaquin Velez PE No. 68182
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 6904 Parke East Blvd. Tampa FL 33610
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March 17, 2020

Job 2292653	Truss T12	Truss Type Common	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T19711854
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8 240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:21:18 2020 Page 1
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Scale = 1:33.5

Plate Offsets (X,Y)-- [2 0-1-8,0-1-8] [4 0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.72	Vert(LL) 0.25 6-12 >755 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.25	Vert(CT) -0.22 6-12 >868 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 4 n/a n/a	Weight 64 lb	FT = 20%
	Code FBC2017/TPI2014				

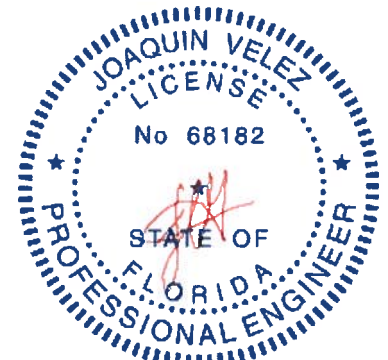
LUMBER-
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purtins.
BOT CHORD Rigid ceiling directly applied or 6-2-10 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-138(LC 10)
Max Uplift 2=-205(LC 9), 4=-205(LC 8)
Max Grav 2=673(LC 1), 4=673(LC 1)

FORCES. (lb) - Max Comp /Max Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-763/900, 3-4=-763/901
BOT CHORD 2-6=-624/572, 4-6=-624/572
WEBS 3-6=-571/371

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II, Exp C, End., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=lb) 2=205, 4=205.



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March 17,2020

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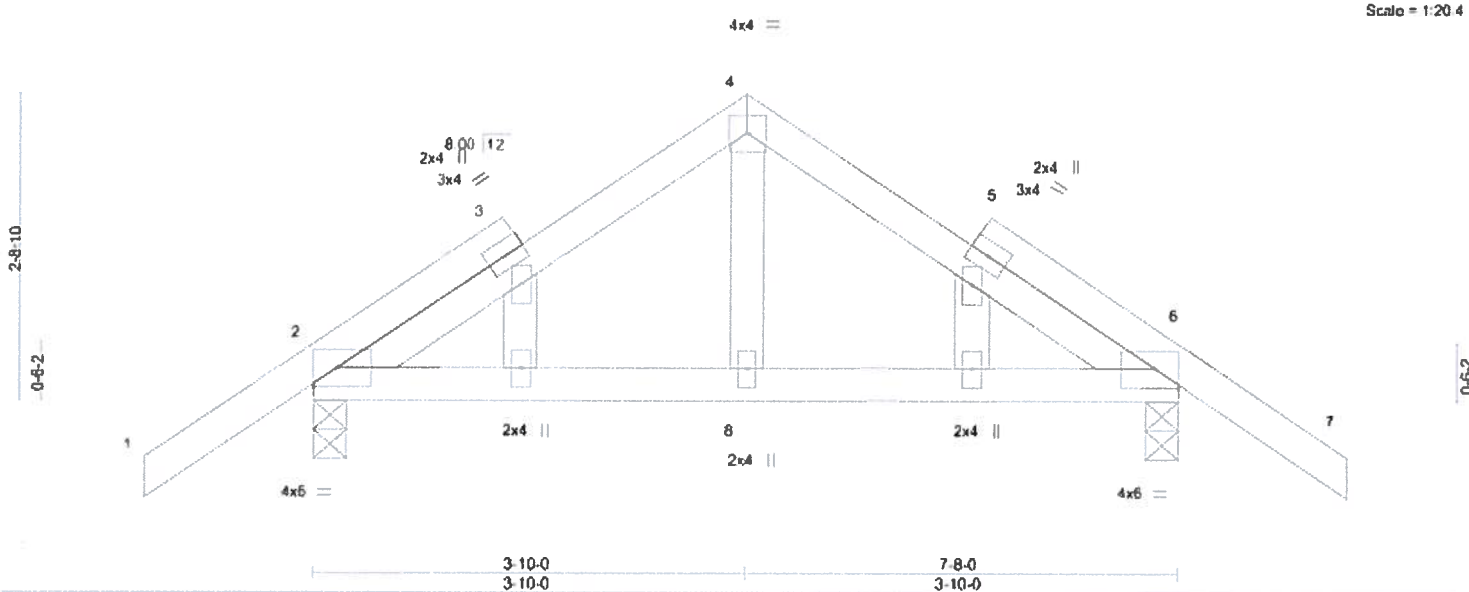


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8.240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:21:19 2020 Page 1
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Scale = 1:20.4



LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	0.01	8-19	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	-0.01	8	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS						
								Weight: 42 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No 2
 BOT CHORD 2x4 SP No 2
 WEBS 2x4 SP No 3
 OTHERS 2x4 SP No 3

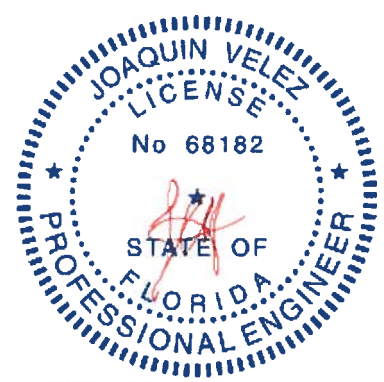
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins
 BOT CHORD Rigid coiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-100(LC 10)
 Max Uplift 2=-158(LC 12), 6=-158(LC 13)
 Max Grav 2=362(LC 1), 6=362(LC 1)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-258/347, 4-6=-258/345
 BOT CHORD 2-8=-271/286, 6-8=-271/286

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf BCDL=3.0psf, h=18ft, Cat. II, Exp C, End. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=lb) 2=158, 6=158.



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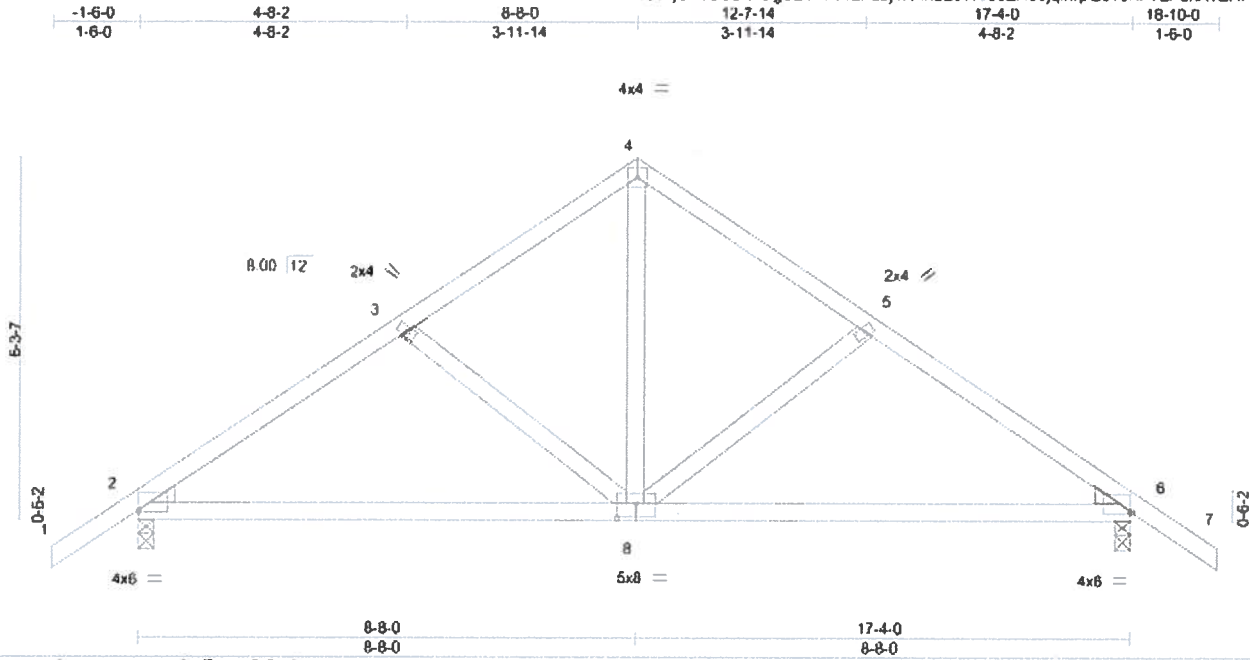
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8.240 a Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:21:20 2020 Page 1
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Scale = 1:40.2

Plate Offsets (X,Y)-- [2 0-0-0,0-0-7] [6 Edge,0-0-7] [8-0-4 0 0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	0.21 8-14	>989	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.18 8-11	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.01 6	n/a	n/a		
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-MS					Weight 87 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins
 BOT CHORD Rigid ceiling directly applied or 6-2-2 oc bracing

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-211(LC 10)
 Max Uplift 2=-281(LC 12), 6=-281(LC 13)
 Max Grav 2=722(LC 1), 6=722(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-848/963, 3-4=-650/894, 4-5=-650/894, 5-6=-848/963
 BOT CHORD 2-8=-898/855, 6-8=-705/655
 WEBS 4-8=-862/478, 5-8=-296/282, 3-8=-296/282

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind ASCE 7-10. Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCCL=3.0psf, h=18ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone, porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-8-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=281, 6=281.



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 Date:

March 17, 2020



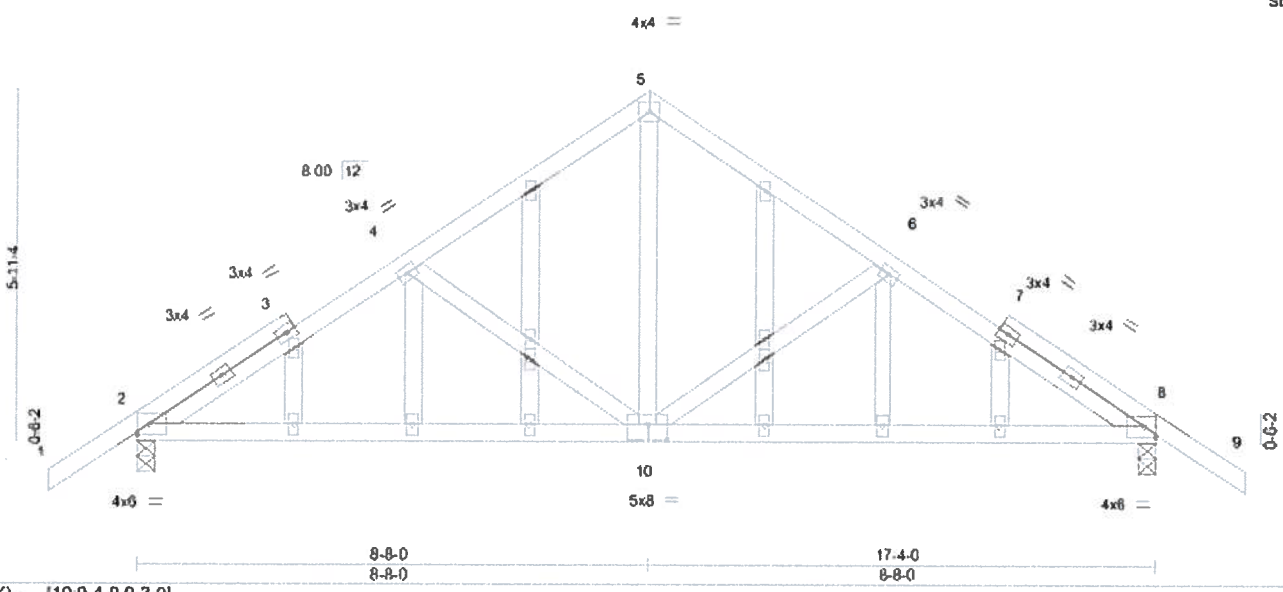
Job 2292653	Truss T14G	Truss Type GABLE	Qty 1	Ply 1	SMITHEY - LOT 44 CW	T19711857
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8 240 s Mar 9 2020 MITek Industries, Inc. Tue Mar 17 13:21:21 2020 Page 1
ID:KjGkVDouK1e9uE1Pn712Pzbj4X-qEohjL3GKIbWk w1N89G8YyGnpGVATuQf7THPXza0XS



Scale = 1/32



LOADING (psf)		SPACING-		CSI		DEFL		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	in (loc)	l/defl	L/d	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(LL)	0.17 10-29	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Vert(CT)	-0.14 10-25	>999	180		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS		Horz(CT)	0.02 8	n/a	n/a		
										Weight:	116 lb FT = 20%

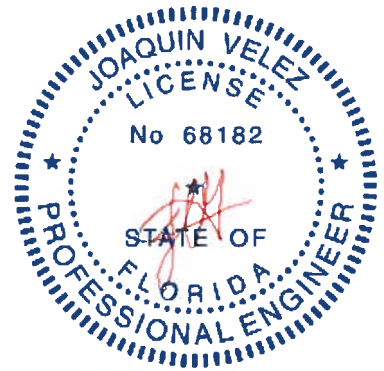
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No 2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins
BOT CHORD	2x4 SP No 2	BOT CHORD	Rigid ceiling directly applied or 6-1-2 oc bracing
WEBS	2x4 SP No 3		
OTHERS	2x4 SP No 3		

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=200(LC 11)
 Max Uplift 2=-284(LC 12), 8=-284(LC 13)
 Max Grav 2=719(LC 1), 8=719(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-855/995, 4-5=-659/892, 5-6=-659/892, 6-8=-855/995
 BOT CHORD 2-10=-765/701, 8-10=-775/701
 WEBS 4-10=-331/338, 5-10=-857/484, 6-10=-331/338

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCCL=3.0psf, h=18ft; Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j1=lb) 2=284, 8=284.

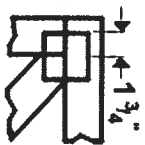


Joaquin Velez PE No. 68182
 MITek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

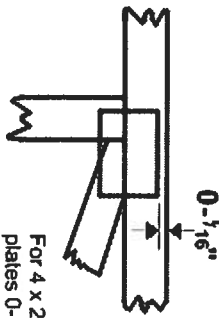
March 17, 2020

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in feet-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates $0 - \frac{1}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MITek 2020 software or upon request.

PLATE SIZE

4 X 4

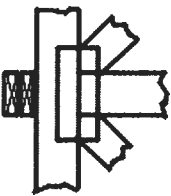
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

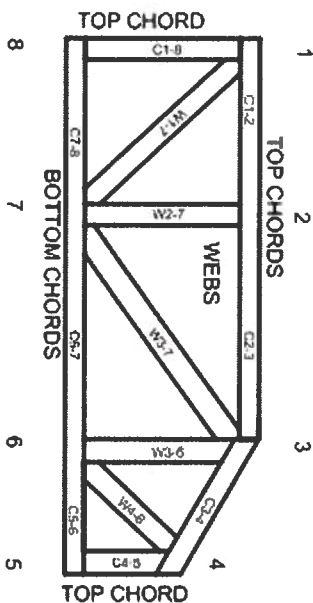
Industry Standards:

- ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information. Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in feet-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

- ESR-1311, ESR-1352, ESR1988
- ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3. These truss designs rely on lumber values established by others.

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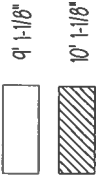
MITek Engineering Reference Sheet, Mill-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

BEARING HEIGHT SCHEDULE



NOTES:

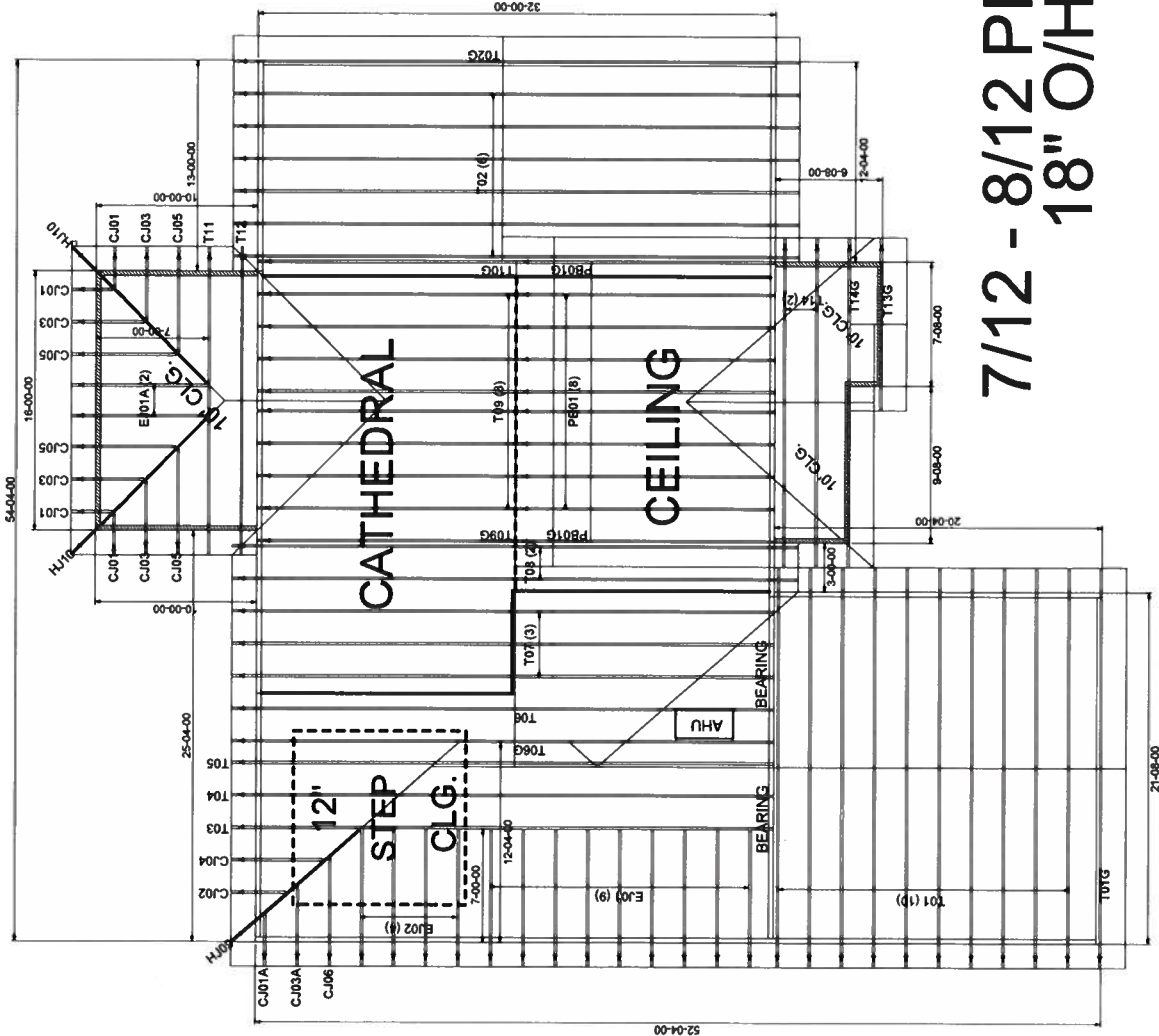
- 1) REFER TO SET OF DIMENSIONAL DRAWING FOR JOIST BEARING HEIGHTS. REFER TO DIMENSIONED DRAWINGS FOR FURNISHING BEARING REQUIREMENTS.
- 2) ALL TRIMMS (INCLUDING TRIMMS UNDER ROOF) SHALL BE SET UP TO BE 1/2" FROM FINISH FLOOR OR FINISH CEILING UNLESS OTHERWISE NOTED.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FORMED BY SADDLE.
- 4) ALL TRIMMS ARE TO BE SET UP TO BE 1/2" FROM FINISH FLOOR OR FINISH CEILING UNLESS OTHERWISE NOTED.
- 5) ALL TRIMMS SHALL BE SET UP TO BE 1/2" FROM FINISH FLOOR OR FINISH CEILING UNLESS OTHERWISE NOTED.
- 6) STAR TRIMMS MAY BE INSTALLED WITH THE TOP BEING UP.
- 7) DIMENSIONS UNLESS OTHERWISE NOTED TO BE DIMENSIONS BY TRADE.



Builders FirstSource
 Jacksonville
 PHONE: 904-775-4400 FAX: 904-775-1873
 Tampa
 PHONE: 813-437-8911 FAX: 813-438-4906
 Lake City
 PHONE: 386-775-4499 FAX: 386-775-1873

SMITHEY

LOT 44 CROSSWINDS	
NO.	3-17-20
DATE	KLH
PROJECT	2292653
CLIENT	2292653



7/12 - 8/12 PITCHES
18" O/H

FL Approval Codes - Mitek Plates #'s 2197.2 - 2197.4, Versa-Lam #1644-R4 & BCI Joists #1392-R4