Columbia County New Building Permit Application

For Office Use Only Application # 15943 Date Received 4/9 By JW Permit # 39655

Zoning Official LW/MB Date 4-14-20 Flood Zone X Land Use Ag Zoning A-3

FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner T.C. Date 4-22-20

Comments _____

☑ NOC ☐ EH ☐ 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. 20-0269 OR City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) Isaiah Cully Phone 386-867-0086

Address 818 W Duval Lake City FL 32055

Owners Name Brad Handy Phone 386-466-9168

911 Address 136 SW GOVERNORS GLN, LAKE CITY, FL 32024

Contractors Name Isaiah Cully Phone 386-867-0086

Address 818 W Duval Lake City FL 32055

Contractor Email Isaiahcully4@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address AR -

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

Mortgage Lenders Name & Address Drummond Community Bank

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

Property ID Number 01-5S-16-03406-208 Estimated Construction Cost 300,000

Subdivision Name ROSE CREEK PLANTATION Lot 8 Block ____ Unit 1 Phase ____

Driving Directions from a Major Road HWY 47 S to Walter, Left on Stoneridge Dr, project on corner of Stoneridge dr and Governers Gln

Construction of RSFH _____ Commercial OR X Residential

Proposed Use/Occupancy Home Number of Existing Dwellings on Property ____

Is the Building Fire Sprinkled? _____ If Yes, blueprints included _____ Or Explain _____

Circle Proposed ☑ Culvert Permit or ☐ Culvert Waiver or ☐ D.O.T. Permit or ☐ Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 200 Side RH 40 Side LH 74.2 Rear 300+

Number of Stories 2 Heated Floor Area 4549 Total Floor Area 5,779 Acreage 2.5

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____

JW sent email 4.20.20 MC completed 4.22.20

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 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.

Brad Handy
Print Owners Name

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.

Contractor's Signature

Contractor's License Number CBC1259655
Columbia County Competency Card Number 1179

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 25 **day of** March **20**20.

Personally known X **or Produced Identification** _____

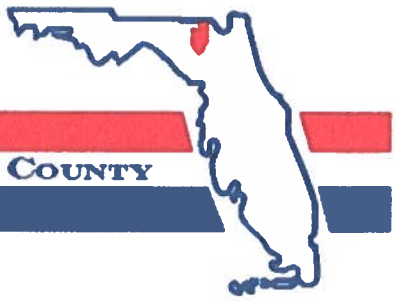
State of Florida Notary Signature (For the Contractor)

SEAL:

Notary Public State of Florida
Andrew Tyler
My Commission GG 923385
Expires 10/16/2023

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:	**3/17/2020 8:47:32 PM**
Address:	**136 SW GOVERNORS Gln**
City:	**LAKE CITY**
State:	**FL**
Zip Code	**32024**
Parcel ID	**03406-208**

REMARKS: Address for proposed structure on parcel.

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

Prepared by and return to:
Frontier Title Group, LLC
5225 8th Street
Zephyrhills Fl. 33542
as a necessary incident to the fulfillment
of conditions contained in a title insurance
commitment issued by it.

Folio Number(s): 01-5S-16-03406-208
File No.: 2014-197

----------SPACE ABOVE THIS LINE FOR RECORDING DATA----------

THIS WARRANTY DEED made this 9th day of May, 2014 by Mark Nickelson and Melinda Nickelson, Husband and Wife hereinafter called the Grantor, to Bradley R. Handy and Kelli L. Handy whose post office address is 797 SW Hamlet Circle, Lake City FL 32024 hereinafter called the Grantee. (Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations).

WITNESSETH: That the grantor, for and in consideration of the sum of TEN AND 00/100'S ($10.00) Dollars, and other variable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situated in Columbia County, Florida, viz:

Part of Lot 8, Rose Creek Plantation Phase I, as per plat thereof, recorded in Plat Book 7, Page 19, of the Public Records of Columbia County, Florida, being more particularly described as follows:
Begin at the SE corner of said Lot 8, also known as P.R.M. 2 and run N 00°09'41" W, 32.50 feet; thence N 72°05'56" W, 665.38 feet; thence S 46°37'58" W, 200.35 feet to a point of curve of a curve being concave to the East, having a radius of 30.00 feet and an included angle of 87°52'31"; thence run along said curve an arc distance of 46.01 feet to a point of curve of a curve being concave to the Southwest, having a radius of 730.00 feet and an included angle of 05°47'47"; thence run along the arc of said curve an arc distance of 73.85 feet; thence N 90°00'00" E, 735.14 feet to the Point of Beginning.

SUBJECT TO restrictions, reservations, easements and limitations of record, if any, provided that this shall not serve to reimpose same, zoning ordinances, and taxes for the current year and subsequent years.

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except as mentioned above.

IN WITNESS WHEREOF, the said grantor has signed and sealed the day and year first above written.

Signed, sealed and delivered in the presence of:

Witness Signature
Witness Print Name Charles Sparks I

Witness Signature
Witness Print Name Robert Stewart

Mark Nickelson
183 SW Holly Gln, Lake City, FL 32024

Melinda Nickelson
183 SW Holly Gln, Lake City, FL 32024

STATE OF: FLORIDA
COUNTY OF: COLUMBIA

The foregoing instrument was acknowledged before me this 9th day of May, 2014 by Mark Nickelson and Melinda Nickelson who is/are personally known to me or has/have produced FL D/L as identification and who did not take an oath.

Notary Public
Robert Stewart
Printed Notary Name

ROBERT S STEWART
MY COMMISSION # FF038075
EXPIRES September 26, 2017
(407) 398-0153 FloridaNotaryService.com

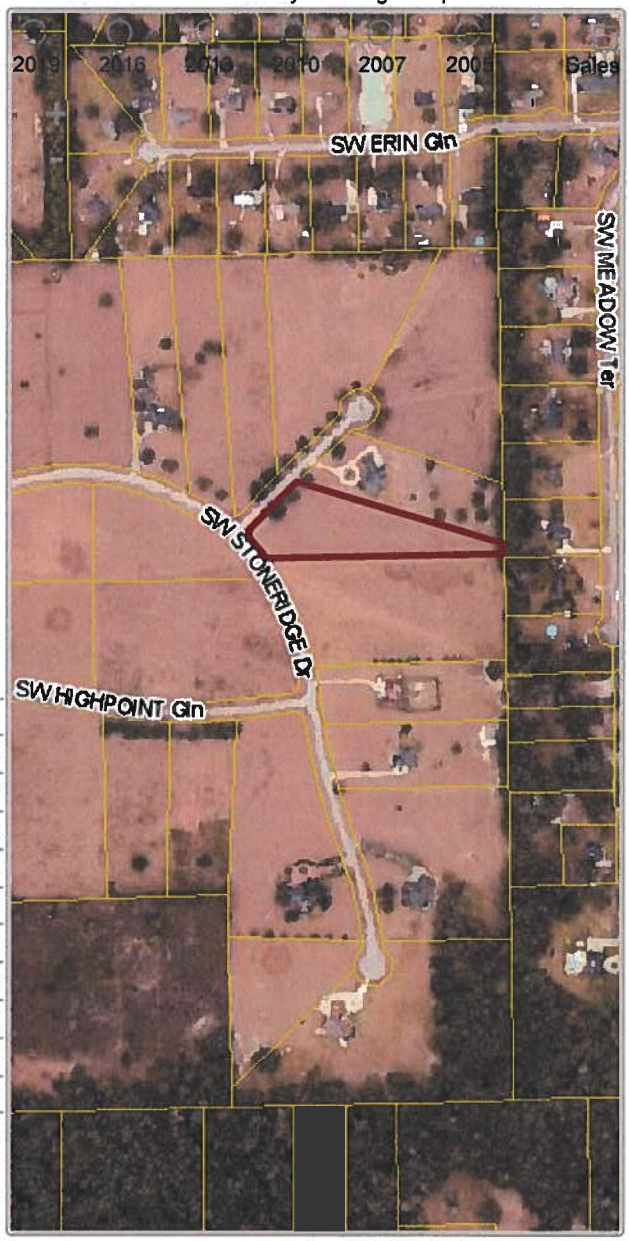
Columbia County Property Appraiser

Jeff Hampton

2020 Working Values
updated: 4/17/2020

Parcel: << **01-5S-16-03406-208** >>

Aerial Viewer | Pictometery | Google Maps



Owner & Property Info

Result: 1 of 1

Owner	**HANDY BRADLEY R & KELLI** 797 SW HAMLET CIRCLE LAKE CITY, FL 32024		
Site	100 GOVERNORS GLN, LAKE CITY		
Description*	PART OF LOT 8 ROSE CREEK PLANTATION PHASE I: BEG SE COR OF SAID LOT 8 RUN N 32.50 FT, N 72 DEG W 665.38 FT, S 46 DEG W 200.35 FT TO PT OF CURVE, THENCE RUN ALONG CURVE 46.01 FT TO PT OF CURVE CONCAVE TO SW, RUN ALONG CURVE 73.85 FT, RUN N 90 DEG E 735.14 F ...more>>>		
Area	2.5 AC	S/T/R	01-5S-16E
Use Code**	VACANT (000000)	Tax District	3

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.
**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2019 Certified Values		2020 Working Values	
Mkt Land (1)	$28,325	Mkt Land (1)	$28,325
Ag Land (0)	$0	Ag Land (0)	$0
Building (0)	$0	Building (0)	$0
XFOB (0)	$0	XFOB (0)	$0
Just	$28,325	Just	$28,325
Class	$0	Class	$0
Appraised	$28,325	Appraised	$28,325
SOH Cap [?]	$0	SOH Cap [?]	$0
Assessed	$28,325	Assessed	$28,325
Exempt	$0	Exempt	$0
Total Taxable	county:$28,325 city:$28,325 other:$28,325 school:$28,325	Total Taxable	county:$28,325 city:$28,325 other:$28,325 school:$28,325

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
5/9/2014	$31,000	1274/1299	WD	V	Q	01
4/30/2004	$19,500	1014/2405	WD	V	U	06

Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
NONE						

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 45943 JOB NAME Handy

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.

			Need
ELECTRICAL ✓ CC# 87	Print Name Dennis Conklin	Signature Dennis Conklin	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: D&S Electric	EVERTON RUDDOCK	
	License #: EC 13003800	Phone #: 386 397-5731	
MECHANICAL/ A/C ✓ CC# 802	Print Name Clint Wilson	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: Wilson Heat & Air		
	License #: CACO 57886	Phone #: 386 496-4000	
PLUMBING/ GAS ✓ CC# 715	Print Name Cody Bass	Signature	✓ Lic ☐ Liab ✓ W/C ☐ EX
	Company Name: Bass Plumbing		
	License #: CFC1427145	Phone #: 386 623-0309	
ROOFING ✓ CC# 1477	Print Name TYLER TURNER	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: TMT ROOFING		
	License #: CCC 1330410	Phone #: 352-318-4176	
SHEET METAL ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License#:	Phone #:	
SOLAR ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	
STATE SPECIALTY ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	

Ref: F.S. 440.103; ORD. 2016-30

Inst. Number: 202012008053 Book: 1410 Page: 247 Page 1 of 2 Date: 4/17/2020 Time: 3:47 PM
P.DeWitt Cason Clerk of Courts, Columbia County, Florida Doc Mort: 0.00 Int Tax: 0.00 Doc Deed: 0.00

NOTICE OF COMMENCEMENT

Loan No: 4990019300

STATE OF FLORIDA
COUNTY OF Columbia

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of Property:
   a. Property Address: **100 SW Governors Glen Lake City, FL 32024**
   b. Legal Description: **SEE ATTACHED 'EXHIBIT A'**

2. Description of Improvements: Construction of Single Family Residence
3. Owner Information:
   a. Name and Address: **Bradley R Handy and** Kelli L. Handy **797 SW Hamlet Cir, Lake City, FL 32024**
   b. Interest in Property: Fee Simple
   c. Name and Address of Fee Simple Title Holder (if other than Owner):

4. Contractor Name and Address: **IC CONSTRUCTION LLC 585 SW BISHOP AVENUE, LAKE CITY, FL 32024**
5. Other Contractor(s) Name and Address:

6. Surety:
7. Lender: **DRUMMOND COMMUNITY BANK 1627 N YOUNG BLVD, CHIEFLAND, FL 32626**
8. Persons 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: N/A
9. In addition to himself, Owner designated the following persons to receive a copy of the Lienor's Notice as provided in section 713.13(1)(b), Florida Statutes: N/A
10. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified):

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Bradley R Handy

Kelli L. Handy

STATE OF Florida Columbia County ss:

The foregoing was acknowledged before me by means of (check one) ☑ physical presence or ☐ online notarization, this 17 th day of April, 2020 by

Bradley R Handy, Kelli L Handy Husband and Wife

They (check one) ☐ are personaly known to me or ☑ have produced Driver's License as identification.

My Commission expires: 9/26/21

Robert S. Stewart Notary Public

NOTICE OF COMMENCEMENT
Laser Forms Inc. #PEO105 4/18

Notary Public State of Florida
Robert S Stewart
My Commission GG 128943
Expires 09/26/2021

Exhibit "A"
Property Description

Part of Lot 8, Rose Creek Plantation Phase I, as per plat thereof recorded in Plat Book 7, Page 19, of the Public Records of Columbia County, Florida, being more particularly descried as follows:

Begin at the SE corner of said Lot 8, also known as P.R.M. 2 and run N 00°09'41" W, 32.50 feet; thence N 72°05'56" W, 665.38 feet; thence S 46°37'58" W, 200.35 feet to a point of curve of a curve being concave to the East, having a radius of 30.00 feet and an included angle of 87°52'31"; thence run along said curve an arc distance of 46.01 feet to a point of curve of a curve being concave to the Southwest, having a radius of 730.00 feet and an included angle of 05°47'47"; thence run along the arc of said curve an arc distance of 73.85 feet; thence N 90°00'00" E, 735.14 feet to the Point of Beginning.

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

March 17, 2020
To: Columbia County Building Department

Description of Well to be installed for Customer _____IC Const_Brad Handy_____

Located @ Address: _____100 Govenors glen

1.5 HP 20 GPM submersible pump, 11/4" 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. 20-0269
DATE PAID: 4.6.20
FEE PAID: 310.00
RECEIPT #: AP 4773477

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: Bradley and Kelli Handy

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: 8 BLOCK: NA SUB: Rose Creek Plantation PLATTED: _____

PROPERTY ID #: 01-5S-16-03406-208 ZONING: _____ I/M OR EQUIVALENT: [Y / (N)]

PROPERTY SIZE: 2.5 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

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

PROPERTY ADDRESS: 100 Governers Gln, Lake City, Fl

DIRECTIONS TO PROPERTY: Head W on NE Franklin St toward NE Calhoun Ave, TL onto NW Main Blvd, Slight right onto FL-47S, TL onto SW Walter Ave, TL onto SW Stoneridge Dr, TL onto SW Governers Glen.

BUILDING INFORMATION [X] 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	4	4967	
2				
3				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: William A. Bishop II DATE: 4/1/2020

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

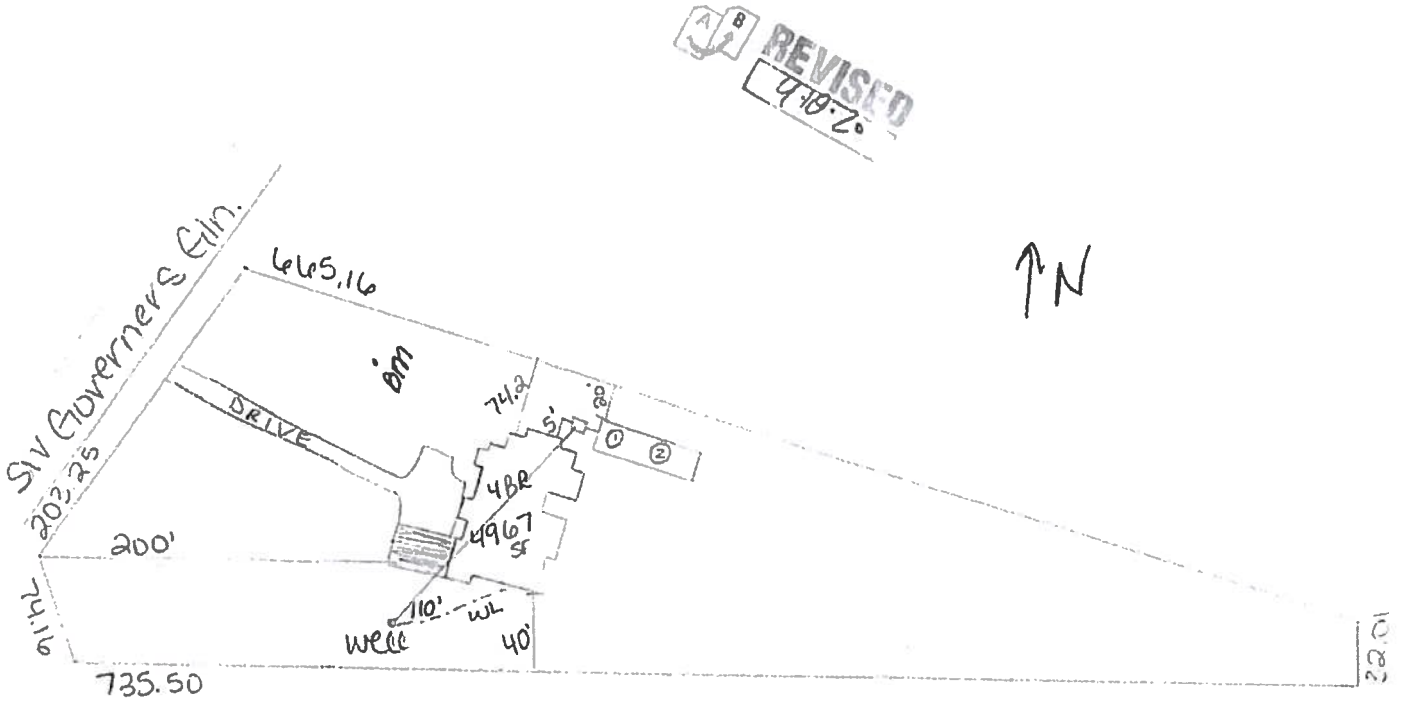
STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 20-0269

Handy

PART II - SITEPLAN

Scale: 1 inch = ~~40~~ 10 feet.



Notes: _____

Site Plan submitted by: William A. Bishop IV MASTER CONTRACTOR

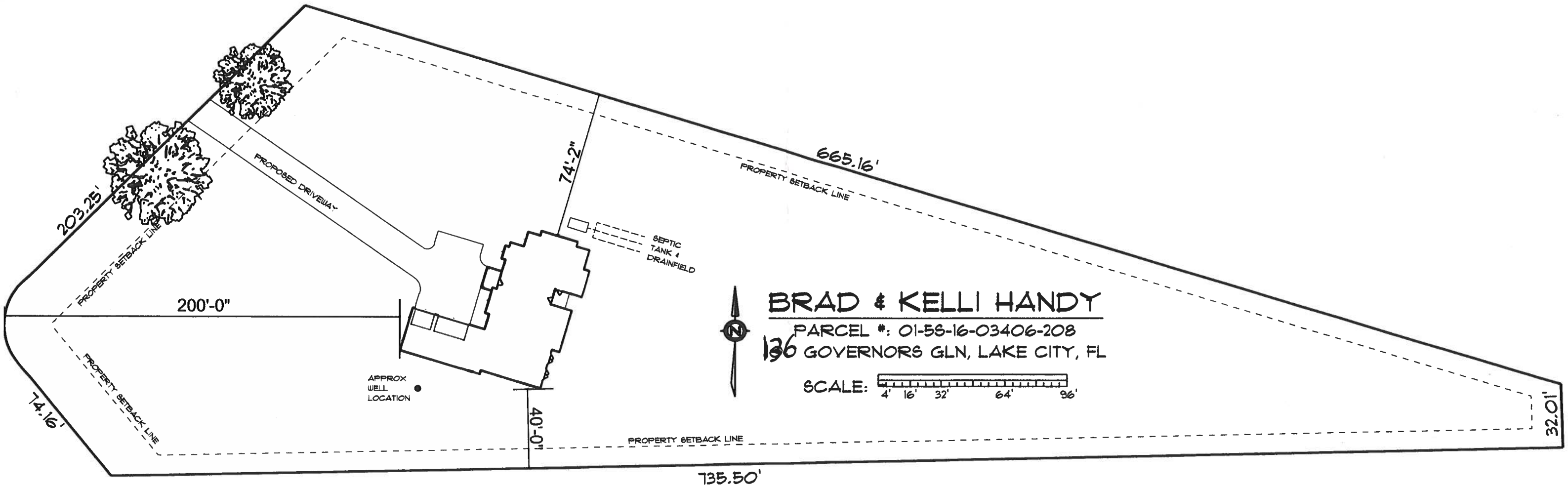
Plan Approved ✓ Not Approved _____ Date 4-1-20

By _____ Columbia CHD County Health Department

4/15/20

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC
(Stock Number: 5744-002-4015-6)


203.25'
PROPERTY SETBACK LINE
PROPOSED DRIVEWAY
74'-2"
665.16'
PROPERTY SETBACK LINE
SEPTIC
TANK &
DRAINFIELD
200'-0"
PROPERTY SETBACK LINE
APPROX
WELL
LOCATION
74.16'
40'-0"
PROPERTY SETBACK LINE
735.50'
32.01'
N
BRAD & KELLI HANDY
PARCEL #: 01-5S-16-03406-208
136 GOVERNORS GLN, LAKE CITY, FL
SCALE:
4' 16' 32' 64' 96'

FILE NUMBER 99-14694
FILED AND RECORDED IN THE OFFICIAL RECORDS OF COLUMBIA COUNTY, FLORIDA
8-25, 1999 AT 3:58 O'CLOCK P.M.
RECORD VERIFIED
P. DeWitt Cason
CLERK OF COURTS
COLUMBIA COUNTY, FLORIDA
BY: McK D.C.

OFFICIAL R. COPY 886 PAGE 2423

BAILEY BISHOP & LANE, INC.
3107 SW BARNETT WAY
P. O. BOX 3717
LAKE CITY, FL 32056-3717
PH. (904) 752-5640
FAX (904) 755-7771

ROSE CREEK PLANTATION
PHASE I

IN
SECTIONS 1 AND 2, TOWNSHIP 5 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

SPECIAL NOTE

NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

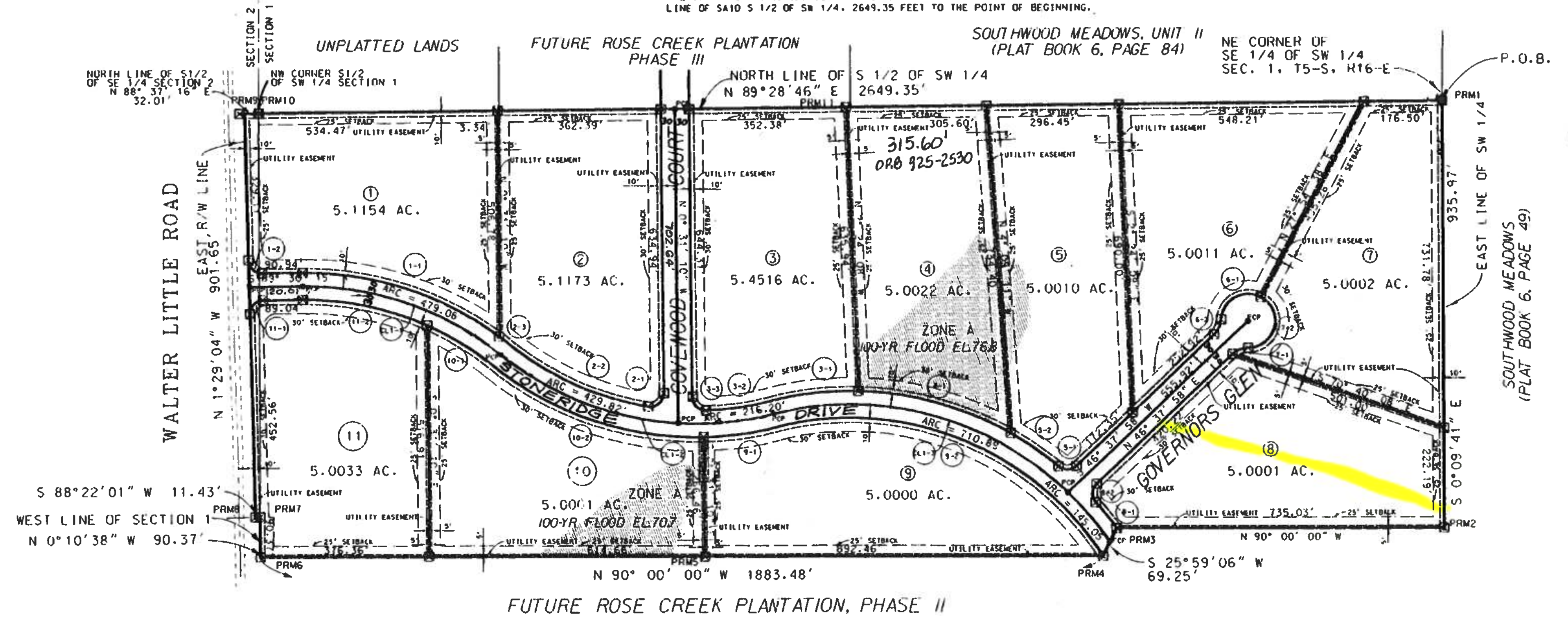
SPECIAL NOTE

NOTICE: ALL UTILITY EASEMENTS SHOWN ON THIS PLAT SHALL BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE AND OPERATION OF ELECTRIC, TELEPHONE, GAS, CABLE TELEVISION SERVICES AND ANY OTHER PUBLIC UTILITIES.

DESCRIPTION

BEGIN AT THE NORTHEAST CORNER OF THE SE 1/4 OF SW 1/4, SECTION 1, TOWNSHIP 5 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN THENCE S 0°09'41" E ALONG THE EAST LINE OF SAID SW 1/4, 935.97 FEET, THENCE N 90°00'00" W, 735.03 FEET, THENCE S 25°59'06" W, 69.25 FEET, THENCE N 90°00'00" W, 1883.48 FEET TO THE WEST LINE OF SECTION 1, THENCE N 0°02'13" W ALONG SAID WEST LINE, 90.37 FEET, THENCE S 88°22'01" W, 11.43 FEET TO THE EAST RIGHT-OF-WAY LINE OF WALTER LITTLE ROAD, THENCE N 1°29'04" W ALONG SAID EAST RIGHT-OF-WAY LINE, 901.65 FEET TO THE NORTH LINE OF THE S 1/2 OF SE 1/4 OF SECTION 2, TOWNSHIP 5 SOUTH, RANGE 16 EAST; THENCE N 88°37'16" E ALONG SAID NORTH LINE, 32.01 FEET TO THE NORTHWEST CORNER OF THE S 1/2 OF THE SW 1/4 OF SAID SECTION 1; THENCE N 89°28'46" E ALONG THE NORTH LINE OF SAID S 1/2 OF SW 1/4, 2649.35 FEET TO THE POINT OF BEGINNING.

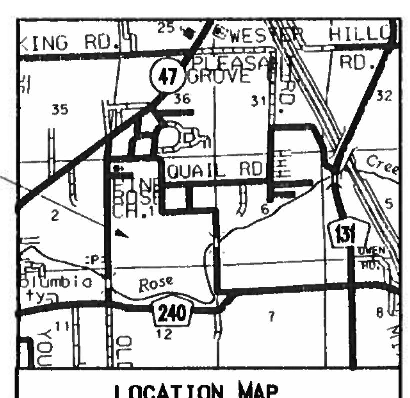
0 100 200 400
SCALE: 1" = 200'



NOTES

1. BEARINGS PROJECTED FROM THE WEST LINE OF SECTION 1, TOWNSHIP 5 SOUTH, RANGE 16 EAST.
2. TOTAL ACRES IN SUBDIVISION IS 60.43 ACRES.
3. ERROR OF CLOSURE BALANCED TO ZERO.
4. SUBDIVISION CONSISTS OF 11 LOTS RANGING IN SIZE FROM 5.0000 TO 5.4516 ACRES.
5. BM DATUM IS NGVD 1929.
6. PRELIMINARY PLAT APPROVED ON NOVEMBER 19, 1998
7. BUILDING SETBACKS ARE AS FOLLOWS:
   FRONT- 30 FEET
   REAR - 25 FEET
   SIDE - 25 FEET
8. PROPERTY IS ZONED A-3.
9. ACCORDING TO THE FLOOD INSURANCE RATE MAP (COMMUNITY PANEL NO. 120070 0225 B, EFFECTIVE DATE JANUARY 6, 1988) THE ABOVE DESCRIBED LANDS LIE IN BOTH ZONE X, AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN, AND ZONE A, AN AREA DETERMINED TO BE INSIDE THE 100-YEAR FLOOD PLAIN, AS SHOWN.
10. FINISHED FLOOR SHALL BE 1 FOOT ABOVE ADJACENT ROADWAY OR 1 FOOT ABOVE 100 YEAR FLOOD ELEVATION.

PROJECT LOCATION



LOCATION MAP

CURVE DATA

CURVE NO.	RADIUS	DELTA	ARC LENGTH	CHORD DIST.	CHORD BEARING
1-1	730.00'	37° 04' 23" LT	472.34'	464.15'	N 71° 57' 34" W
1-2	30.00'	74° 56' 09" RT	39.24'	36.50'	N 53° 01' 41" W
1-3	30.00'	14° 04' 32" RT	7.37'	7.35'	N 8° 31' 20" W
2-1	30.00'	99° 51' 07" RT	52.28'	45.91'	S 49° 24' 23" W
2-2	670.00'	29° 23' 06" RT	343.62'	339.87'	N 65° 58' 30" W
2-3	730.00'	2° 08' 25" LT	27.27'	27.27'	N 52° 21' 10" W
3-1	730.00'	15° 29' 38" LT	197.41'	196.80'	S 83° 35' 12" W
3-2	670.00'	12° 42' 04" RT	148.52'	148.22'	S 82° 11' 25" W
3-3	30.00'	90° 56' 22" RT	47.62'	42.77'	N 45° 59' 22" W
4-1	730.00'	28° 08' 03" LT	358.46'	354.87'	N 74° 35' 58" W
5-1	30.00'	83° 03' 38" RT	43.49'	39.78'	S 88° 09' 46" W
5-2	730.00'	10° 13' 31" LT	130.28'	130.11'	N 55° 25' 10" W
6-1	60.00'	114° 37' 11" LT	120.03'	100.99'	S 60° 36' 03" W
6-2	50.00'	43° 20' 30" RT	37.82'	36.93'	S 24° 57' 42" W
7-1	50.00'	43° 20' 30" RT	37.82'	36.93'	N 68° 18' 13" E
7-2	60.00'	152° 03' 50" LT	159.24'	116.45'	N 13° 56' 33" E
8-1	730.00'	5° 47' 47" LT	73.85'	73.82'	N 38° 20' 40" W
8-2	30.00'	87° 52' 31" RT	46.01'	41.63'	N 2° 41' 42" E
9-1	730.00'	13° 13' 13" LT	168.44'	168.07'	N 82° 27' 00" E
9-2	670.00'	71° 32' 50" RT	836.65'	783.34'	S 68° 23' 12" E
10-1	670.00'	14° 53' 09" RT	174.07'	173.58'	S 58° 43' 32" E
10-2	730.00'	39° 39' 26" LT	505.27'	495.24'	S 71° 06' 40" E
11-1	30.00'	90° 59' 19" RT	47.64'	42.79'	N 44° 00' 35" E
11-2	670.00'	24° 18' 46" RT	284.31'	282.18'	S 78° 19' 29" E
CL1-1	700.00'	39° 12' 48" RT	479.08'	469.79'	S 70° 53' 21" E
CL1-2	700.00'	52° 52' 40" LT	646.02'	623.34'	S 77° 43' 17" E
CL1-3	700.00'	70° 03' 35" RT	855.94'	803.60'	S 69° 07' 49" E

LEGEND

- PERMANENT REFERENCE MONUMENT (PRM) 4"X4" CONC. MON. (LB 6685)
- 4"X4" CONC. MON. SET AT EACH LOT CORNER (LB 6685)
- CONC. MON. FOUND AS NOTED
- PERMANENT CONTROL POINT (PCP) NAIL & DISC (LB 6685)
- 100 YR FLOOD ZONE
- SETBACK
- UTILITY EASEMENT

DEVELOPER
WESTFIELD GROUP, LTD.
CHARLIE SPARKS, PRES.
4400 W U.S. HWY 90
LAKE CITY, FL. 32055
PHONE: (904) 755-5110

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2017 EFFECTIVE 1 JANUARY 2018
AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. 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, FBC 1609.3.1 THRU 1609.3.3.

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 7/1/18

Website: http://www.columbiacountyfla.com/BuildingandZoning.asp

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		Select From Drop down		
1	Two (2) complete sets of plans containing the following:	✔		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	✔		
3	**Condition space (Sq. Ft.)**	**Total (Sq. Ft.) under roof**	Yes	No	NA

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 107.1.

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 Circled as Applicable		
		Yes	No	NA
8	**Plans or specifications must show compliance with FBCR Chapter 3**	**Select From Drop down**		
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/m²), to be used for the design of exterior component, cladding materials not specifally 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		
19	Number of stories	Yes		
20	Building height from the established grade to the roofs highest peak			

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	Yes		
22	Raised floor surfaces located more than 30 inches above the floor or grade	Yes		
23	All exterior and interior shear walls indicated	Yes		
24	Shear wall opening shown (Windows, Doors and Garage doors)	Yes		
25	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.	Yes		
26	Safety glazing of glass where needed	Yes		
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	Yes		
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	Yes		
29	Identify accessibility of bathroom (see FBCR SECTION 320)	Yes		

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 Circled as Applicable

FBCR 403: Foundation Plans

Select From Drop down

30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	Yes		
31	All posts and/or column footing including size and reinforcing	Yes		
32	Any special support required by soil analysis such as piling.	Yes		
33	Assumed load-bearing valve of soil _____ Pound Per Square Foot	Yes		
34	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	Yes		

FBCR 506: CONCRETE SLAB ON GRADE

35	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	Yes		
36	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	Yes		

FBCR 318: PROTECTION AGAINST TERMITES

37	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**	Yes		

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

38	Show all materials making up walls, wall height, and Block size, mortar type	Yes		
39	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	Yes		

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

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

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

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

Select from Drop down

53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	Yes		
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown	Yes		
55	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	Yes		
56	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	Yes		
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	Yes		
58	Indicate where pressure treated wood will be placed	Yes		
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	Yes		
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	Yes		

FBCR :ROOF SYSTEMS:

61	Truss design drawing shall meet section FBC-R 802.10. 1 Wood trusses	Yes		
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	Yes		
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	Yes		
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	Yes		
65	Provide dead load rating of trusses	Yes		

FBCR 802:Conventional Roof Framing Layout

66	Rafter and ridge beams sizes, span, species and spacing	Yes		
67	Connectors to wall assemblies' include assemblies' resistance to uplift rating	Yes		
68	Valley framing and support details	Yes		
69	Provide dead load rating of rafter system	Yes		

FBCR 803 ROOF SHEATHING

70	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	Yes		
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	Yes		

ROOF ASSEMBLIES FRC Chapter 9

72	Include all materials which will make up the roof assembles covering	Yes		
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	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.*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable *Select from Drop Down*		
74	Show the insulation R value for the following areas of the structure	Yes		
75	Attic space	Yes		
76	Exterior wall cavity	Yes		
77	Crawl space	Yes		

HVAC information

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

Plumbing Fixture layout shown

81	All fixtures waste water lines shall be shown on the foundationplan	Yes		
82	Show the location of water heater	Yes		

Private Potable Water

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

Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	Yes		
87	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		
88	Show the location of smoke detectors & Carbon monoxide detectors	Yes		
89	Show service panel, sub-panel, location(s) and total ampere ratings	Yes		
90	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		
91	Appliances and HVAC equipment and disconnects	Yes		
92	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		

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 performed.

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

****ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.****

Select from Drop down

93	**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.	Yes		
94	**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	Yes		
95	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	Yes		
96	**City of Lake City** A City Water and/or Sewer letter. Call 386-752-2031	Yes		
97	**Toilet facilities shall be provided for all construction sites**	Yes		
98	**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.	Yes		
99	**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 (Municode.com)	Yes		
100	**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.	Yes		
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is **$50.00**	NA		
102	**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.	Yes		
103	**911 Address:** An application for a 911address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	Yes		

Ordinance Sec. 90-75. - Construction debris. (e) It shall be unlawful for any person to dispose of or discard solid waste, including construction or demolition debris at any place within the county other than on an authorized disposal site or at the county's solid waste facilities. The temporary storage, not to exceed seven days of solid waste (excluding construction and demolition debris) on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance, shall not be deemed a violation of this section. The temporary storage of construction and demolition debris on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance shall not be deemed in violation of this section; provided, however, such construction and demolition debris must be disposed of in accordance with this article prior to the county's issuance of a certificate of occupancy for the premises. The burning of lumber from a construction or demolition project or vegetative trash when done so with legal and proper permits from the authorized agencies and in accordance with such agencies' rules and regulations, shall not be deemed a violation of this section. No person shall bury, throw, place, or deposit, or cause to be buried, thrown, placed, or deposited, any solid waste, special waste, or debris of any kind into or on any of the public streets, road right-of-way, highways, bridges, alleys, lanes, thoroughfares, waters, canals, or vacant lots or lands within the county. No person shall bury any vegetative trash on any of the public streets, road right-of-way, highways, bridges, lanes, thoroughfares, waters, canals, or lots less than ten acres in size within the county.

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 @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Plast-Pro	Smooth fiberglass doors	14803.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	YKK	Vinyl Windows	17169.1
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	James Hardi	Cement Hardi lap siding	13192-R1
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	GAF	asphalt shingles	11651.28 R1
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR 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 manufacturers installation requirements.
Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Contractor OR Agent Signature

3-26-2020
Date

NOTES: _____

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 72

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

1. New home or, addition	1. New (From Plans)
2. Single-family or multiple-family	2. Single-family
3. No. of units (if multiple-family)	3. 1
4. Number of bedrooms	4. 5
5. Is this a worst case? (yes/no)	5. No
6. Conditioned floor area (sq. ft.)	6. 4744
7. Windows, type and area	
a) U-factor:(weighted average)	7a. 0.330
b) Solar Heat Gain Coefficient (SHGC)	7b. 0.220
c) Area	7c. 531.5
8. Skylights	
a) U-factor:(weighted average)	8a. NA
b) Solar Heat Gain Coefficient (SHGC)	8b. NA
9. Floor type, insulation level:	
a) Slab-on-grade (R-value)	9a. 0.0
b) Wood, raised (R-value)	9b.
c) Concrete, raised (R-value)	9c.
10. Wall type and insulation:	
A. Exterior:	
1. Wood frame (Insulation R-value)	10A1. 19.0
2. Masonry (Insulation R-value)	10A2.
B. Adjacent:	
1. Wood frame (Insulation R-value)	10B1. 19.0
2. Masonry (Insulation R-value)	10B2.
11. Ceiling type and insulation level	
a) Under attic	11a.
b) Single assembly	11b. varies
c) Knee walls/skylight walls	11c.
d) Radiant barrier installed	11d. No

12. Ducts, location & insulation level	
a) Supply ducts	R 6.0
b) Return ducts	R 6.0
c) AHU location	2nd Floor
13. Cooling system:	Capacity 84.0
a) Split system	SEER
b) Single package	SEER
c) Ground/water source	SEER/COP
d) Room unit/PTAC	EER
e) Other	varies
14. Heating system:	Capacity 84.0
a) Split system heat pump	HSPF
b) Single package heat pump	HSPF
c) Electric resistance	COP
d) Gas furnace, natural gas	AFUE
e) Gas furnace, LPG	AFUE
f) Other	8.50
15. Water heating system	
a) Electric resistance	EF
b) Gas fired, natural gas	EF
c) Gas fired, LPG	EF 0.59
d) Solar system with tank	EF
e) Dedicated heat pump with tank	EF
f) Heat recovery unit	HeatRec%
g) Other	
16. HVAC credits claimed (Performance Method)	
a) Ceiling fans	Yes
b) Cross ventilation	No
c) Whole house fan	No
d) Multizone cooling credit	
e) Multizone heating credit	
f) Programmable thermostat	Yes

COLUMBIA COUNTY BUILDING — Received — FILE COPY — Code Compliance — PLANS EXAMINER

*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: SW Governors Glen City/FL Zip: Lake City, FL 32024

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Handy Residence	Builder Name:	IC Construction
Street:	SW Governors Glen	Permit Office:	
City, State, Zip:	Lake City , FL , 32024	Permit Number:	
Owner:	Brad & Kelli	Jurisdiction:	
Design Location:	FL, Gainesville	County:	Columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	5
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	4744
Conditioned floor area below grade (ft²)	0

7. Windows(531.5 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.33	531.50 ft²
SHGC:	SHGC=0.22	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		1.500 ft.
Area Weighted Average SHGC:		0.220

8. Floor Types (4744.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	3000.00 ft²
b. Floor Over Other Space	R=0.0	1744.00 ft²
c. N/A	R=	ft²

9. Wall Types (4716.3 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	4489.70 ft²
b. Frame - Wood, Adjacent	R=19.0	226.67 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (4744.0 sqft.)	Insulation	Area
a. Cathedral/Single Assembly (Unvented)	R=30.0	3000.00 ft²
b. Cathedral/Single Assembly (Unvented)	R=44.0	1744.00 ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: 1st Floor, Ret: 1st Floor, AH: 2nd Floor	6	474.4
b. Sup: 2nd Floor, Ret: 2nd Floor, AH: 2nd Floor	6	474.4

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	48.0	SEER:16.00
b. Central Unit	36.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	48.0	HSPF:8.50
b. Electric Heat Pump	36.0	HSPF:8.50

14. Hot water systems	
a. Propane	Tankless, Cap: 1 gallons
	EF: 0.590
b. Conservation features	
None	
15. Credits	CF, Pstat

COLUMBIA COUNTY BUILDING DEPARTMENT
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Code Compliance
PLANS EXAMINER

Glass/Floor Area: 0.112

Total Proposed Modified Loads: 86.43
Total Baseline Loads: 119.65

PASS

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

PREPARED BY: _____
DATE: 3-30-20

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

OWNER/AGENT: _____
DATE: _____

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.

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

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).
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Handy Residence	Bedrooms:	5	Address Type:	Street Address
Building Type:	User	Conditioned Area:	4744	Lot #	
Owner Name:	Brad & Kelli	Total Stories:	2	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	IC Construction	Rotate Angle:	0	Street:	SW Governors Glen
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32024
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp 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	3000	30000
2	Block2	1744	15696

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	1st Floor	3000	30000	Yes	2	2	1	Yes	Yes	Yes
2	2nd Floor	1744	15696	No	4	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	1st Floor	285 ft	0	3000 ft²	----	0.4	0.6	0
_____	2	Floor Over Other Space	2nd Floor	----	----	1744 ft²	0	0.1	0.3	0.6

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	3606 ft²	0 ft²	Medium	N	0.85	No	0.9	No	44	33.7

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Unvented	0	3000 ft²	N	N

FORM R405-2017 **INPUT SUMMARY CHECKLIST REPORT**

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
____	1	Cathedral/Single Assembly (Unvented	1st Floor	30	Blown	3000 ft²	0.11	Wood
____	2	Cathedral/Single Assembly (Unvented	2nd Floor	44	Blown	1744 ft²	0.11	Wood

WALLS

√ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
____ 1	S	Exterior	Frame - Wood	1st Floor	19	31	6	10		315.0 ft²	0.625	0.23	0.75	0
____ 2	E	Exterior	Frame - Wood	1st Floor	19	2		10		20.0 ft²	0.625	0.23	0.75	0
____ 3	S	Exterior	Frame - Wood	1st Floor	19	10	6	10		105.0 ft²	0.625	0.23	0.75	0
____ 4	W	Garage	Frame - Wood	1st Floor	19	22	8	10		226.7 ft²	0.625	0.23	0.75	0
____ 5	N	Exterior	Frame - Wood	1st Floor	19	6		10		60.0 ft²	0.625	0.23	0.75	0
____ 6	W	Exterior	Frame - Wood	1st Floor	19	7	8	10		76.7 ft²	0.625	0.23	0.75	0
____ 7	S	Exterior	Frame - Wood	1st Floor	19	2		10		20.0 ft²	0.625	0.23	0.75	0
____ 8	W	Exterior	Frame - Wood	1st Floor	19	13	8	10		136.7 ft²	0.625	0.23	0.75	0
____ 9	N	Exterior	Frame - Wood	1st Floor	19	2	2	10		21.7 ft²	0.625	0.23	0.75	0
____ 10	W	Exterior	Frame - Wood	1st Floor	19	15	2	10		151.7 ft²	0.625	0.23	0.75	0
____ 11	S	Exterior	Frame - Wood	1st Floor	19	2		10		20.0 ft²	0.625	0.23	0.75	0
____ 12	W	Exterior	Frame - Wood	1st Floor	19	7		10		70.0 ft²	0.625	0.23	0.75	0
____ 13	N	Exterior	Frame - Wood	1st Floor	19	2		10		20.0 ft²	0.625	0.23	0.75	0
____ 14	W	Exterior	Frame - Wood	1st Floor	19	7	8	10		76.7 ft²	0.625	0.23	0.75	0
____ 15	N	Exterior	Frame - Wood	1st Floor	19	6	4	10		63.3 ft²	0.625	0.23	0.75	0
____ 16	W	Exterior	Frame - Wood	1st Floor	19	2	4	10		23.3 ft²	0.625	0.23	0.75	0
____ 17	N	Exterior	Frame - Wood	1st Floor	19	19	6	10		195.0 ft²	0.625	0.23	0.75	0
____ 18	E	Exterior	Frame - Wood	1st Floor	19	2	4	10		23.3 ft²	0.625	0.23	0.75	0
____ 19	N	Exterior	Frame - Wood	1st Floor	19	7		10		70.0 ft²	0.625	0.23	0.75	0
____ 20	E	Exterior	Frame - Wood	1st Floor	19	10		10		100.0 ft²	0.625	0.23	0.75	0
____ 21	N	Exterior	Frame - Wood	1st Floor	19	3		10		30.0 ft²	0.625	0.23	0.75	0
____ 22	E	Exterior	Frame - Wood	1st Floor	19	14		10		140.0 ft²	0.625	0.23	0.75	0
____ 23	S	Exterior	Frame - Wood	1st Floor	19	14	4	10		143.3 ft²	0.625	0.23	0.75	0
____ 24	E	Exterior	Frame - Wood	1st Floor	19	7	10	10		78.3 ft²	0.625	0.23	0.75	0
____ 25	N	Exterior	Frame - Wood	1st Floor	19	11	4	10		113.3 ft²	0.625	0.23	0.75	0
____ 26	E	Exterior	Frame - Wood	1st Floor	19	22		10		220.0 ft²	0.625	0.23	0.75	0
____ 27	S	Exterior	Frame - Wood	1st Floor	19	4		10		40.0 ft²	0.625	0.23	0.75	0
____ 28	E	Exterior	Frame - Wood	1st Floor	19	20	4	10		203.3 ft²	0.625	0.23	0.75	0
____ 29	S	Exterior	Frame - Wood	2nd Floor	19	32		9		288.0 ft²	0.625	0.23	0.75	0
____ 30	W	Exterior	Frame - Wood	2nd Floor	19	20	2	9		181.5 ft²	0.625	0.23	0.75	0
____ 31	S	Exterior	Frame - Wood	2nd Floor	19	3	10	9		34.5 ft²	0.625	0.23	0.75	0
____ 32	W	Exterior	Frame - Wood	2nd Floor	19	8	2	9		73.5 ft²	0.625	0.23	0.75	0
____ 33	S	Exterior	Frame - Wood	2nd Floor	19	2	2	9		19.5 ft²	0.625	0.23	0.75	0
____ 34	W	Exterior	Frame - Wood	2nd Floor	19	13	8	9		123.0 ft²	0.625	0.23	0.75	0
____ 35	N	Exterior	Frame - Wood	2nd Floor	19	2	2	9		19.5 ft²	0.625	0.23	0.75	0
____ 36	W	Exterior	Frame - Wood	2nd Floor	19	24	6	9		220.5 ft²	0.625	0.23	0.75	0
____ 37	N	Exterior	Frame - Wood	2nd Floor	19	35	10	9		322.5 ft²	0.625	0.23	0.75	0
____ 38	E	Exterior	Frame - Wood	2nd Floor	19	24	2	9		217.5 ft²	0.625	0.23	0.75	0

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

WALLS

√ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
____39	N	Exterior	Frame - Wood	2nd Floor	19	4		9		36.0 ft²	0.625	0.23	0.75	0
____40	E	Exterior	Frame - Wood	2nd Floor	19	22		9		198.0 ft²	0.625	0.23	0.75	0
____41	S	Exterior	Frame - Wood	2nd Floor	19	4		9		36.0 ft²	0.625	0.23	0.75	0
____42	E	Exterior	Frame - Wood	2nd Floor	19	20	4	9		183.0 ft²	0.625	0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	W	Insulated	1st Floor	None	.4	5		8		40 ft²
_____	2	S	Insulated	1st Floor	None	.4	3		8		24 ft²
_____	3	E	Insulated	1st Floor	None	.4	3		8		24 ft²
_____	4	E	Insulated	1st Floor	None	.4	6		8		48 ft²
_____	5	E	Insulated	1st Floor	None	.4	6		8		48 ft²
_____	6	W	Insulated	2nd Floor	None	.4	5		8		40 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	S	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	2	S	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	13.5 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	3	S	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	12.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	4	W	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	5	W	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	6	W	12	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	7	W	16	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	8	N	19	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	9	E	22	Vinyl	Low-E Double	Yes	0.33	0.22	N	24.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	10	S	23	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	11	E	26	Vinyl	Low-E Double	Yes	0.33	0.22	N	72.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	12	E	26	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	13	S	29	Vinyl	Low-E Double	Yes	0.33	0.22	N	24.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	14	W	32	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	15	W	34	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	16	W	36	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	17	E	38	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	18	E	40	Vinyl	Low-E Double	Yes	0.33	0.22	N	72.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	19	E	40	Vinyl	Low-E Double	Yes	0.33	0.22	N	12.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	20	E	40	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	1 ft 6 in	1 ft 4 in	None	None

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	721.5676778 ft²	721.5676778 ft²	86.334 ft	10 ft	19

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000306	3808	209.05	393.16	.1636	5

HEATING SYSTEM

√	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	None	Singl	HSPF:8.5	48 kBtu/hr	1	sys#1
_____	2	Electric Heat Pump/	None	Singl	HSPF:8.5	36 kBtu/hr	2	sys#2

COOLING SYSTEM

√	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	None	Singl	SEER: 16	48 kBtu/hr	1440 cfm	0.85	1	sys#1
_____	2	Central Unit/	None	Singl	SEER: 14	36 kBtu/hr	1080 cfm	0.85	2	sys#2

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Propane	Tankless	Exterior	0.59	1 gal	80 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
_____	1	1st Floor	6	474.4 ft	1st Floor	118.6 ft	Prop. Leak Free	2nd Floor	--- cfm	90.0 cfm	0.03	0.50	1	1
_____	2	2nd Floor	6	474.4 ft	2nd Floor	118.6 ft	Prop. Leak Free	2nd Floor	--- cfm	52.3 cfm	0.03	0.50	2	2

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

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	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	Main
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	Guest Suite

Residential System Sizing Calculation

Summary

Brad & Kelli
SW Governors Glen
Lake City, FL 32024

Project Title:
Handy Residence

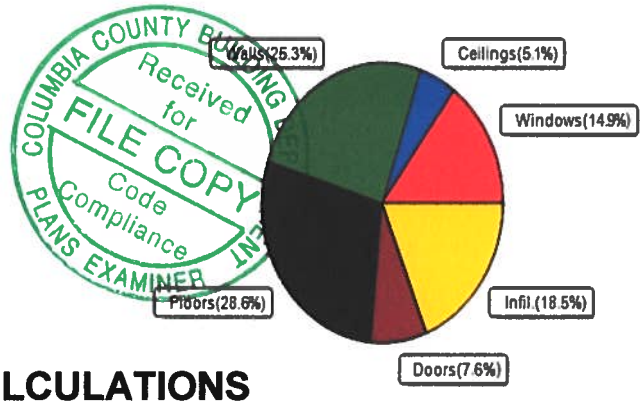
3/30/2020

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	**47075**	**Btuh**	**Total cooling load calculation**	**38327**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	178.4	84000	Sensible (SHR = 0.85)	223.4	71400
Heat Pump + Auxiliary(0.0kW)	178.4	84000	Latent	198.1	12600
			Total (Electric Heat Pump)	219.2	84000

WINTER CALCULATIONS

Winter Heating Load (for 4744 sqft)

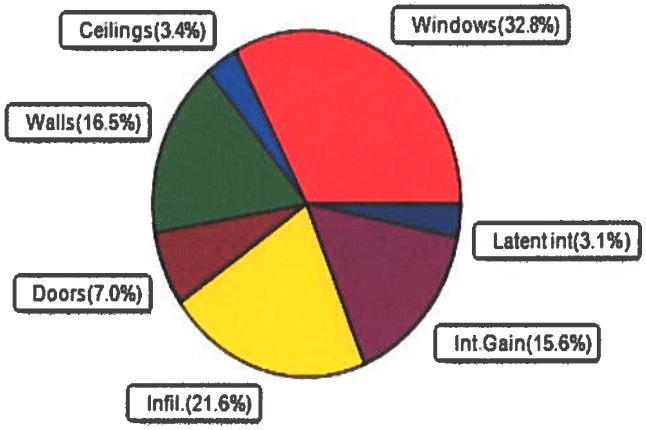
Load component			Load	
Window total	532	sqft	7016	Btuh
Wall total	3961	sqft	11905	Btuh
Door total	224	sqft	3584	Btuh
Ceiling total	4744	sqft	2387	Btuh
Floor total	See detail report		13452	Btuh
Infiltration	199	cfm	8732	Btuh
Duct loss			0	Btuh
Subtotal			**47075**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**47075**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 4744 sqft)

Load component			Load	
Window total	532	sqft	12558	Btuh
Wall total	3961	sqft	6328	Btuh
Door total	224	sqft	2688	Btuh
Ceiling total	4744	sqft	1301	Btuh
Floor total			0	Btuh
Infiltration	150	cfm	3111	Btuh
Internal gain			5980	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**31965**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			5162	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**6362**	**Btuh**
TOTAL HEAT GAIN			**38327**	**Btuh**



Powered by ACCA MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 3-30-20

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Brad & Kelli
SW Governors Glen
Lake City, FL 32024

Project Title:
Handy Residence

3/30/2020

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	0.22,	0.33	No	No	S	1.5ft	1.3ft	36.0	36.0	0.0	11	13	392	Btuh
2	2 NFRC	0.22,	0.33	No	No	S	1.5ft	1.3ft	13.5	13.5	0.0	11	13	147	Btuh
3	2 NFRC	0.22,	0.33	No	No	S	1.5ft	1.3ft	12.0	12.0	0.0	11	13	131	Btuh
4	2 NFRC	0.22,	0.33	No	No	W	1.5ft	1.3ft	8.0	0.0	8.0	11	27	220	Btuh
5	2 NFRC	0.22,	0.33	No	No	W	1.5ft	1.3ft	36.0	0.0	36.0	11	27	989	Btuh
6	2 NFRC	0.22,	0.33	No	No	W	1.5ft	1.3ft	30.0	0.0	30.0	11	27	824	Btuh
7	2 NFRC	0.22,	0.33	No	No	W	1.5ft	1.3ft	8.0	0.0	8.0	11	27	220	Btuh
8	2 NFRC	0.22,	0.33	No	No	N	1.5ft	1.3ft	20.0	0.0	20.0	11	11	218	Btuh
9	2 NFRC	0.22,	0.33	No	No	E	1.5ft	1.3ft	24.0	0.0	24.0	11	27	660	Btuh
10	2 NFRC	0.22,	0.33	No	No	S	1.5ft	1.3ft	18.0	18.0	0.0	11	13	196	Btuh
11	2 NFRC	0.22,	0.33	No	No	E	1.5ft	1.3ft	72.0	0.0	72.0	11	27	1979	Btuh
12	2 NFRC	0.22,	0.33	No	No	E	1.5ft	1.3ft	36.0	0.0	36.0	11	27	989	Btuh
13	2 NFRC	0.22,	0.33	No	No	S	1.5ft	1.3ft	24.0	24.0	0.0	11	13	262	Btuh
14	2 NFRC	0.22,	0.33	No	No	W	1.5ft	1.3ft	8.0	0.0	8.0	11	27	220	Btuh
15	2 NFRC	0.22,	0.33	No	No	W	1.5ft	1.3ft	36.0	0.0	36.0	11	27	989	Btuh
16	2 NFRC	0.22,	0.33	No	No	W	1.5ft	1.3ft	30.0	0.0	30.0	11	27	824	Btuh
17	2 NFRC	0.22,	0.33	No	No	E	1.5ft	1.3ft	18.0	0.0	18.0	11	27	495	Btuh
18	2 NFRC	0.22,	0.33	No	No	E	1.5ft	1.3ft	72.0	0.0	72.0	11	27	1979	Btuh
19	2 NFRC	0.22,	0.33	No	No	E	1.5ft	1.3ft	12.0	0.0	12.0	11	27	330	Btuh
20	2 NFRC	0.22,	0.33	No	No	E	1.5ft	1.3ft	18.0	0.0	18.0	11	27	495	Btuh
	Window Total								532 (sqft)					12558	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Brad & Kelli
SW Governors Glen
Lake City, FL 32024

Project Title: Handy Residence

Climate:FL_GAINESVILLE_REGIONAL_A

3/30/2020

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.08	19.0/0.6	265.5	1.6	427 Btuh
2	Frame - Wood - Ext	0.08	19.0/0.6	20.0	1.6	32 Btuh
3	Frame - Wood - Ext	0.08	19.0/0.6	93.0	1.6	150 Btuh
4	Frame - Wood - Adj	0.08	19.0/0.6	226.7	1.4	324 Btuh
5	Frame - Wood - Ext	0.08	19.0/0.6	60.0	1.6	96 Btuh
6	Frame - Wood - Ext	0.08	19.0/0.6	68.7	1.6	110 Btuh
7	Frame - Wood - Ext	0.08	19.0/0.6	20.0	1.6	32 Btuh
8	Frame - Wood - Ext	0.08	19.0/0.6	100.7	1.6	162 Btuh
9	Frame - Wood - Ext	0.08	19.0/0.6	21.7	1.6	35 Btuh
10	Frame - Wood - Ext	0.08	19.0/0.6	111.7	1.6	180 Btuh
11	Frame - Wood - Ext	0.08	19.0/0.6	20.0	1.6	32 Btuh
12	Frame - Wood - Ext	0.08	19.0/0.6	40.0	1.6	64 Btuh
13	Frame - Wood - Ext	0.08	19.0/0.6	20.0	1.6	32 Btuh
14	Frame - Wood - Ext	0.08	19.0/0.6	76.7	1.6	123 Btuh
15	Frame - Wood - Ext	0.08	19.0/0.6	63.3	1.6	102 Btuh
16	Frame - Wood - Ext	0.08	19.0/0.6	15.3	1.6	25 Btuh
17	Frame - Wood - Ext	0.08	19.0/0.6	195.0	1.6	314 Btuh
18	Frame - Wood - Ext	0.08	19.0/0.6	23.3	1.6	38 Btuh
19	Frame - Wood - Ext	0.08	19.0/0.6	50.0	1.6	80 Btuh
20	Frame - Wood - Ext	0.08	19.0/0.6	100.0	1.6	161 Btuh
21	Frame - Wood - Ext	0.08	19.0/0.6	30.0	1.6	48 Btuh
22	Frame - Wood - Ext	0.08	19.0/0.6	116.0	1.6	187 Btuh
23	Frame - Wood - Ext	0.08	19.0/0.6	101.3	1.6	163 Btuh
24	Frame - Wood - Ext	0.08	19.0/0.6	54.3	1.6	87 Btuh
25	Frame - Wood - Ext	0.08	19.0/0.6	113.3	1.6	182 Btuh
26	Frame - Wood - Ext	0.08	19.0/0.6	112.0	1.6	180 Btuh
27	Frame - Wood - Ext	0.08	19.0/0.6	40.0	1.6	64 Btuh
28	Frame - Wood - Ext	0.08	19.0/0.6	107.3	1.6	173 Btuh
29	Frame - Wood - Ext	0.08	19.0/0.6	264.0	1.6	425 Btuh
30	Frame - Wood - Ext	0.08	19.0/0.6	181.5	1.6	292 Btuh
31	Frame - Wood - Ext	0.08	19.0/0.6	34.5	1.6	55 Btuh
32	Frame - Wood - Ext	0.08	19.0/0.6	65.5	1.6	105 Btuh
33	Frame - Wood - Ext	0.08	19.0/0.6	19.5	1.6	31 Btuh
34	Frame - Wood - Ext	0.08	19.0/0.6	87.0	1.6	140 Btuh
35	Frame - Wood - Ext	0.08	19.0/0.6	19.5	1.6	31 Btuh
36	Frame - Wood - Ext	0.08	19.0/0.6	150.5	1.6	242 Btuh
37	Frame - Wood - Ext	0.08	19.0/0.6	322.5	1.6	519 Btuh
38	Frame - Wood - Ext	0.08	19.0/0.6	199.5	1.6	321 Btuh
39	Frame - Wood - Ext	0.08	19.0/0.6	36.0	1.6	58 Btuh
40	Frame - Wood - Ext	0.08	19.0/0.6	96.0	1.6	154 Btuh
41	Frame - Wood - Ext	0.08	19.0/0.6	36.0	1.6	58 Btuh
42	Frame - Wood - Ext	0.08	19.0/0.6	183.0	1.6	294 Btuh
	Wall Total			3961 (sqft)		6328 Btuh
Doors	**Type**			**Area (sqft)**	**HTM**	**Load**
1	Insulated - Exterior			40.0	12.0	480 Btuh
2	Insulated - Exterior			24.0	12.0	288 Btuh
3	Insulated - Exterior			24.0	12.0	288 Btuh
4	Insulated - Exterior			48.0	12.0	576 Btuh
5	Insulated - Exterior			48.0	12.0	576 Btuh
6	Insulated - Exterior			40.0	12.0	480 Btuh
	Door Total			224 (sqft)		2688 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Brad & Kelli
SW Governors Glen
Lake City, FL 32024

Project Title: Handy Residence

Climate:FL_GAINESVILLE_REGIONAL_A

3/30/2020

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Cath/Sngl Assem/Light/Shingle	0.013	30.0/44.0	3000.0	0.29	873 Btuh
2	Cath/Sngl Assem/Light/Shingle	0.011	44.0/44.0	1744.0	0.25	428 Btuh
	Ceiling Total			4744 (sqft)		1301 Btuh
Floors	Type		R-Value	Size	HTM	Load
1	Slab On Grade		0.0	3000 (ft-perimeter)	0.0	0 Btuh
2	Interior		0.0	1744 (sqft)	0.0	0 Btuh
	Floor Total			4744.0 (sqft)		0 Btuh
				Envelope Subtotal:		22875 Btuh

Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.20	45696	1	149.5	3111 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	4600	5980 Btuh
				Sensible Envelope Load:		31965 Btuh
Duct load	Extremely sealed, Supply(R6.0-Condi), Return(R6.0-Condi)			(DGM of 0.000)		0 Btuh
				Sensible Load All Zones		**31965 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Brad & Kelli
SW Governors Glen
Lake City, FL 32024

Project Title: Handy Residence

Climate:FL_GAINESVILLE_REGIONAL_A

3/30/2020

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**31965 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**31965 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**31965 Btuh**
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	5162 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6362 Btuh**
	TOTAL GAIN	**38327 Btuh**

EQUIPMENT

1. Central Unit	#	48000 Btuh
2. Central Unit	#	36000 Btuh

*Key: Window types (Panes - 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

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Brad & Kelli
SW Governors Glen
Lake City, FL 32024

Project Title:
Handy Residence
Building Type: User

3/30/2020

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 0.22	Vinyl	0.33	S	36.0	13.2	475 Btuh
2	2, NFRC 0.22	Vinyl	0.33	S	13.5	13.2	178 Btuh
3	2, NFRC 0.22	Vinyl	0.33	S	12.0	13.2	158 Btuh
4	2, NFRC 0.22	Vinyl	0.33	W	8.0	13.2	106 Btuh
5	2, NFRC 0.22	Vinyl	0.33	W	36.0	13.2	475 Btuh
6	2, NFRC 0.22	Vinyl	0.33	W	30.0	13.2	396 Btuh
7	2, NFRC 0.22	Vinyl	0.33	W	8.0	13.2	106 Btuh
8	2, NFRC 0.22	Vinyl	0.33	N	20.0	13.2	264 Btuh
9	2, NFRC 0.22	Vinyl	0.33	E	24.0	13.2	317 Btuh
10	2, NFRC 0.22	Vinyl	0.33	S	18.0	13.2	238 Btuh
11	2, NFRC 0.22	Vinyl	0.33	E	72.0	13.2	950 Btuh
12	2, NFRC 0.22	Vinyl	0.33	E	36.0	13.2	475 Btuh
13	2, NFRC 0.22	Vinyl	0.33	S	24.0	13.2	317 Btuh
14	2, NFRC 0.22	Vinyl	0.33	W	8.0	13.2	106 Btuh
15	2, NFRC 0.22	Vinyl	0.33	W	36.0	13.2	475 Btuh
16	2, NFRC 0.22	Vinyl	0.33	W	30.0	13.2	396 Btuh
17	2, NFRC 0.22	Vinyl	0.33	E	18.0	13.2	238 Btuh
18	2, NFRC 0.22	Vinyl	0.33	E	72.0	13.2	950 Btuh
19	2, NFRC 0.22	Vinyl	0.33	E	12.0	13.2	158 Btuh
20	2, NFRC 0.22	Vinyl	0.33	E	18.0	13.2	238 Btuh
	Window Total				531.5(sqft)		7016 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.075)	19.0/0.6	266	3.01	798 Btuh
2	Frame - Wood	- Ext	(0.075)	19.0/0.6	20	3.01	60 Btuh
3	Frame - Wood	- Ext	(0.075)	19.0/0.6	93	3.01	280 Btuh
4	Frame - Wood	- Adj	(0.075)	19.0/0.6	227	3.01	681 Btuh
5	Frame - Wood	- Ext	(0.075)	19.0/0.6	60	3.01	180 Btuh
6	Frame - Wood	- Ext	(0.075)	19.0/0.6	69	3.01	206 Btuh
7	Frame - Wood	- Ext	(0.075)	19.0/0.6	20	3.01	60 Btuh
8	Frame - Wood	- Ext	(0.075)	19.0/0.6	101	3.01	303 Btuh
9	Frame - Wood	- Ext	(0.075)	19.0/0.6	22	3.01	65 Btuh
10	Frame - Wood	- Ext	(0.075)	19.0/0.6	112	3.01	336 Btuh
11	Frame - Wood	- Ext	(0.075)	19.0/0.6	20	3.01	60 Btuh
12	Frame - Wood	- Ext	(0.075)	19.0/0.6	40	3.01	120 Btuh
13	Frame - Wood	- Ext	(0.075)	19.0/0.6	20	3.01	60 Btuh
14	Frame - Wood	- Ext	(0.075)	19.0/0.6	77	3.01	230 Btuh
15	Frame - Wood	- Ext	(0.075)	19.0/0.6	63	3.01	190 Btuh
16	Frame - Wood	- Ext	(0.075)	19.0/0.6	15	3.01	46 Btuh
17	Frame - Wood	- Ext	(0.075)	19.0/0.6	195	3.01	586 Btuh
18	Frame - Wood	- Ext	(0.075)	19.0/0.6	23	3.01	70 Btuh
19	Frame - Wood	- Ext	(0.075)	19.0/0.6	50	3.01	150 Btuh
20	Frame - Wood	- Ext	(0.075)	19.0/0.6	100	3.01	301 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Brad & Kelli
SW Governors Glen
Lake City, FL 32024

Project Title:
Handy Residence
Building Type: User

3/30/2020

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
21	Frame - Wood	- Ext	(0.075)	19.0/0.6	30	3.01	90 Btuh
22	Frame - Wood	- Ext	(0.075)	19.0/0.6	116	3.01	349 Btuh
23	Frame - Wood	- Ext	(0.075)	19.0/0.6	101	3.01	305 Btuh
24	Frame - Wood	- Ext	(0.075)	19.0/0.6	54	3.01	163 Btuh
25	Frame - Wood	- Ext	(0.075)	19.0/0.6	113	3.01	341 Btuh
26	Frame - Wood	- Ext	(0.075)	19.0/0.6	112	3.01	337 Btuh
27	Frame - Wood	- Ext	(0.075)	19.0/0.6	40	3.01	120 Btuh
28	Frame - Wood	- Ext	(0.075)	19.0/0.6	107	3.01	323 Btuh
29	Frame - Wood	- Ext	(0.075)	19.0/0.6	264	3.01	794 Btuh
30	Frame - Wood	- Ext	(0.075)	19.0/0.6	182	3.01	546 Btuh
31	Frame - Wood	- Ext	(0.075)	19.0/0.6	35	3.01	104 Btuh
32	Frame - Wood	- Ext	(0.075)	19.0/0.6	66	3.01	197 Btuh
33	Frame - Wood	- Ext	(0.075)	19.0/0.6	20	3.01	59 Btuh
34	Frame - Wood	- Ext	(0.075)	19.0/0.6	87	3.01	261 Btuh
35	Frame - Wood	- Ext	(0.075)	19.0/0.6	20	3.01	59 Btuh
36	Frame - Wood	- Ext	(0.075)	19.0/0.6	151	3.01	452 Btuh
37	Frame - Wood	- Ext	(0.075)	19.0/0.6	323	3.01	969 Btuh
38	Frame - Wood	- Ext	(0.075)	19.0/0.6	200	3.01	600 Btuh
39	Frame - Wood	- Ext	(0.075)	19.0/0.6	36	3.01	108 Btuh
40	Frame - Wood	- Ext	(0.075)	19.0/0.6	96	3.01	289 Btuh
41	Frame - Wood	- Ext	(0.075)	19.0/0.6	36	3.01	108 Btuh
42	Frame - Wood	- Ext	(0.075)	19.0/0.6	183	3.01	550 Btuh
	Wall Total				3961(sqft)		11905 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)	40	16.0	640 Btuh
2	Insulated - Exterior,	n	(0.400)	24	16.0	384 Btuh
3	Insulated - Exterior,	n	(0.400)	24	16.0	384 Btuh
4	Insulated - Exterior,	n	(0.400)	48	16.0	768 Btuh
5	Insulated - Exterior,	n	(0.400)	48	16.0	768 Btuh
6	Insulated - Exterior,	n	(0.400)	40	16.0	640 Btuh
	Door Total			224(sqft)		3584Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Cathedral/L/Shing	(0.013)	30.0/44.0	3000	0.5	1602 Btuh
2	Cathedral/L/Shing	(0.011)	44.0/44.0	1744	0.4	785 Btuh
	Ceiling Total			4744(sqft)		2387Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180)	0.0	285.0 ft(perim.)	47.2	13452 Btuh
2	Interior	(1.180)	0.0	1744.0 sqft	0.0	0 Btuh
	Floor Total			4744 sqft		13452 Btuh

	Envelope Subtotal:	38344 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Brad & Kelli
SW Governors Glen
Lake City, FL 32024

Project Title:
Handy Residence
Building Type: User

3/30/2020

Infiltration	Type Natural	Wholehouse	ACH 0.26	Volume(cuft) 45696	Wall Ratio 1.00	CFM= 199.4	8732 Btuh
Duct load						(DLM of 0.000)	0 Btuh
All Zones				**Sensible Subtotal All Zones**			**47075 Btuh**

WHOLE HOUSE TOTALS

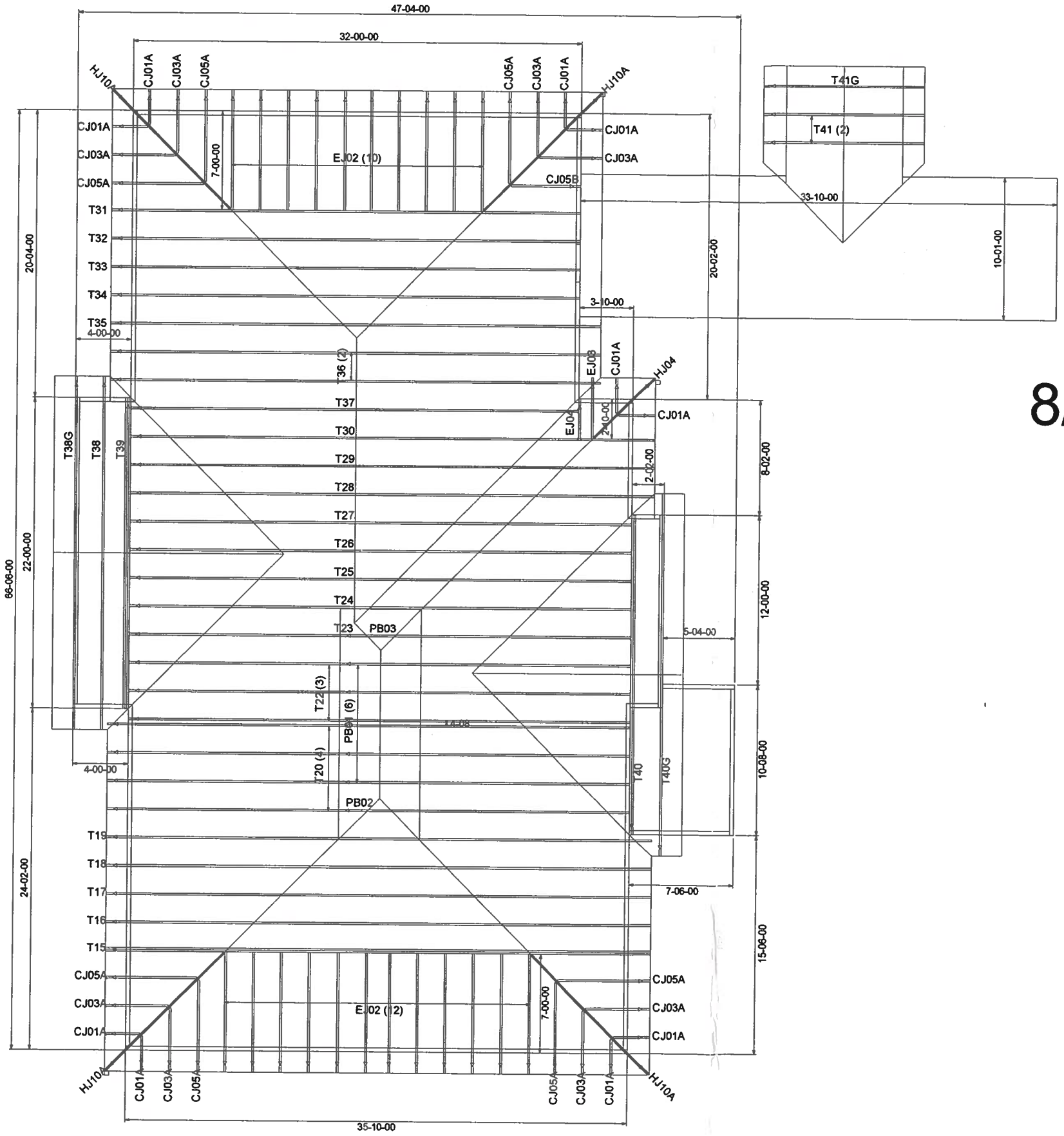
Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	47075 Btuh 0 Btuh 47075 Btuh

EQUIPMENT

1. Electric Heat Pump 2. Electric Heat Pump	# #	48000 Btuh 36000 Btuh

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



8/12 PITCH
18" O/H

BEARING HEIGHT SCHEDULE

	9' 1-1/8"

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR 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.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

Builders FirstSource

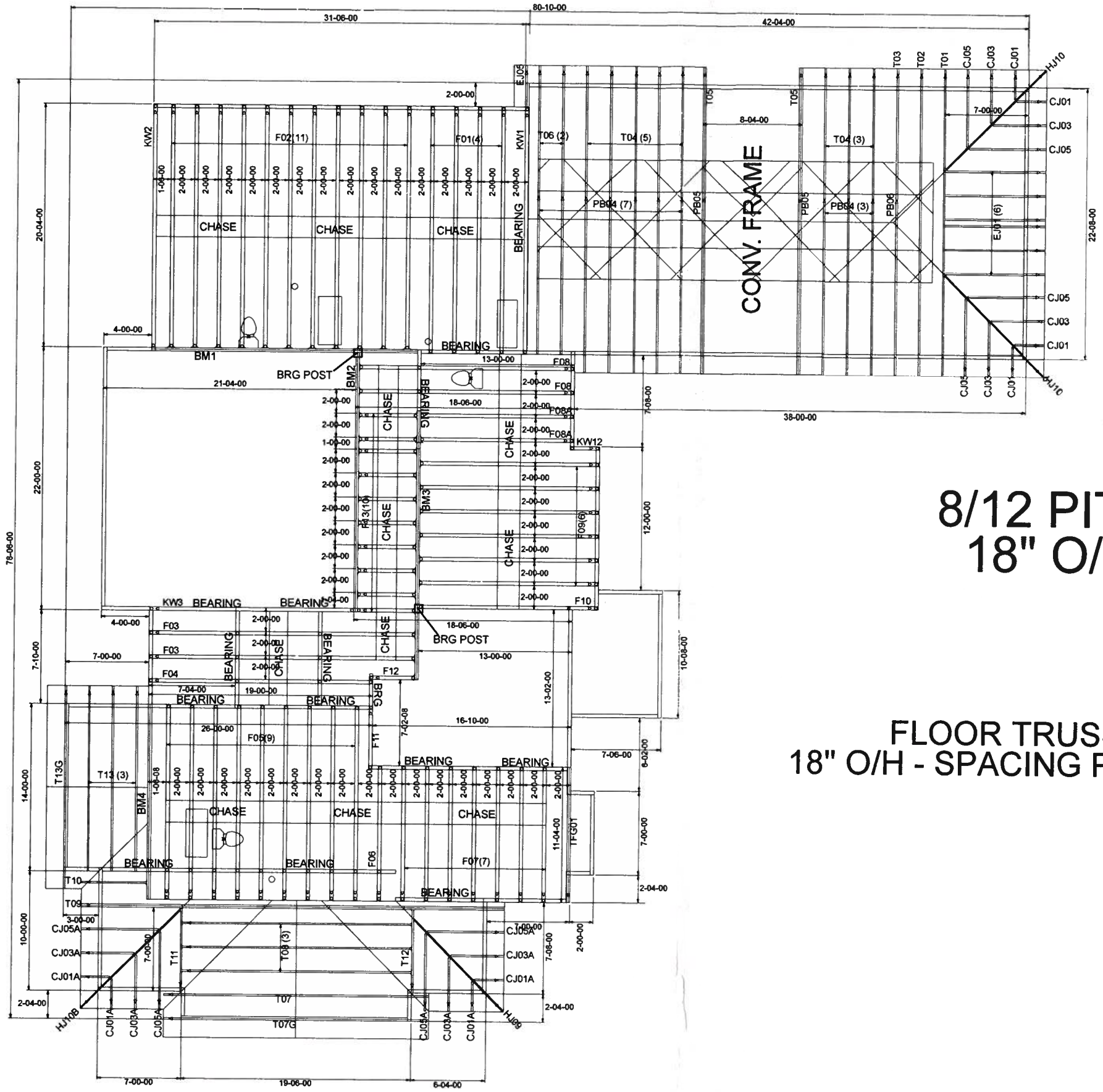
Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1473

Tampa
PHONE: 813-621-9831 FAX: 813-628-8956

Lake City
PHONE: 386-755-6894 FAX: 386-755-7473

BUILDER:	IC CONST.
LEGAL ADDRESS:	HANDY RES.
MODEL:	Version:
	Rev. by:
DATE: 4-3-20	DESIGN BY: KLH
	Original Reference #: 2268020
1st Level Job#:	2nd Level Job#:
	Truss Job#: 2268020

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



8/12 PITCH
18" O/H

FLOOR TRUSSES
18" O/H - SPACING PER PLANS

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

BEARING HEIGHT SCHEDULE

	10' 1-1/8"

NOTES:

1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR 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.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
7.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

Builders FirstSource

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

Tampa
PHONE: 813-621-9831 FAX: 813-628-8956

Lake City
PHONE: 386-755-6894 FAX: 386-755-7973

BUILDER:	IC CONST.
LEGAL ADDRESS:	HANDY RES.
MODEL:	Revision:
	Rev. By:
DATE: 4-3-20	DRAWN BY: KLH
	Original Reference #: 2268020
1st Level def.:	2nd Level def.:
	Roof def.: 2268020

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

RE: 2268020 - IC CONST. - HANDY RES.

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

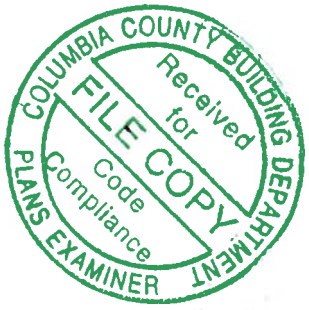
Site Information:
Customer Info: IC Construction Project Name: Handy Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 100 Governors Glen, N/A
City: Columbia Cty State: FL

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: 55.0 psf

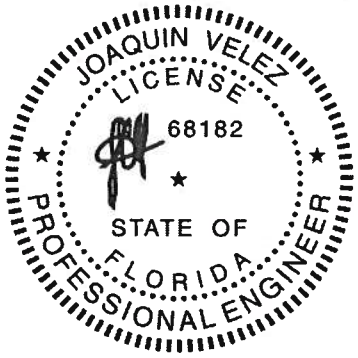
This package includes 86 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T19891650	CJ01	4/3/20	23	T19891672	F10	4/3/20
2	T19891651	CJ01A	4/3/20	24	T19891673	F11	4/3/20
3	T19891652	CJ03	4/3/20	25	T19891674	F12	4/3/20
4	T19891653	CJ03A	4/3/20	26	T19891675	F13	4/3/20
5	T19891654	CJ05	4/3/20	27	T19891676	HJ04	4/3/20
6	T19891655	CJ05A	4/3/20	28	T19891677	HJ09	4/3/20
7	T19891656	CJ05B	4/3/20	29	T19891678	HJ10	4/3/20
8	T19891657	EJ01	4/3/20	30	T19891679	HJ10A	4/3/20
9	T19891658	EJ02	4/3/20	31	T19891680	HJ10B	4/3/20
10	T19891659	EJ03	4/3/20	32	T19891681	KW1	4/3/20
11	T19891660	EJ04	4/3/20	33	T19891682	KW2	4/3/20
12	T19891661	EJ05	4/3/20	34	T19891683	KW3	4/3/20
13	T19891662	F01	4/3/20	35	T19891684	KW12	4/3/20
14	T19891663	F02	4/3/20	36	T19891685	PB01	4/3/20
15	T19891664	F03	4/3/20	37	T19891686	PB02	4/3/20
16	T19891665	F04	4/3/20	38	T19891687	PB03	4/3/20
17	T19891666	F05	4/3/20	39	T19891688	PB04	4/3/20
18	T19891667	F06	4/3/20	40	T19891689	PB05	4/3/20
19	T19891668	F07	4/3/20	41	T19891690	PB06	4/3/20
20	T19891669	F08	4/3/20	42	T19891691	T01	4/3/20
21	T19891670	F08A	4/3/20	43	T19891692	T02	4/3/20
22	T19891671	F09	4/3/20	44	T19891693	T03	4/3/20



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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: April 3,2020

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.

MiTek

RE: 2268020 - IC CONST. - HANDY RES.

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

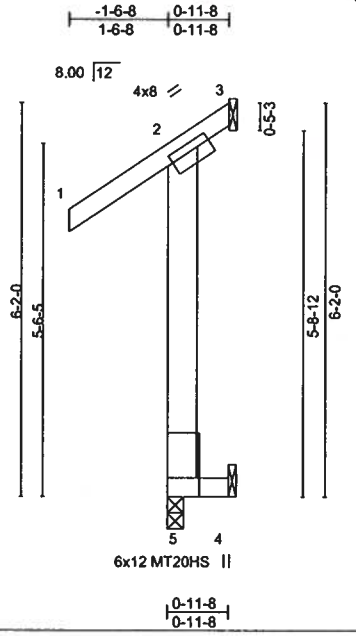
Site Information:

Customer Info: IC Construction Project Name: Handy Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 100 Governors Glen, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
45	T19891694	T04	4/3/20
46	T19891695	T05	4/3/20
47	T19891696	T06	4/3/20
48	T19891697	T07	4/3/20
49	T19891698	T07G	4/3/20
50	T19891699	T08	4/3/20
51	T19891700	T09	4/3/20
52	T19891701	T10	4/3/20
53	T19891702	T11	4/3/20
54	T19891703	T12	4/3/20
55	T19891704	T13	4/3/20
56	T19891705	T13G	4/3/20
57	T19891706	T15	4/3/20
58	T19891707	T16	4/3/20
59	T19891708	T17	4/3/20
60	T19891709	T18	4/3/20
61	T19891710	T19	4/3/20
62	T19891711	T20	4/3/20
63	T19891712	T22	4/3/20
64	T19891713	T23	4/3/20
65	T19891714	T24	4/3/20
66	T19891715	T25	4/3/20
67	T19891716	T26	4/3/20
68	T19891717	T27	4/3/20
69	T19891718	T28	4/3/20
70	T19891719	T29	4/3/20
71	T19891720	T30	4/3/20
72	T19891721	T31	4/3/20
73	T19891722	T32	4/3/20
74	T19891723	T33	4/3/20
75	T19891724	T34	4/3/20
76	T19891725	T35	4/3/20
77	T19891726	T36	4/3/20
78	T19891727	T37	4/3/20
79	T19891728	T38	4/3/20
80	T19891729	T38G	4/3/20
81	T19891730	T39	4/3/20
82	T19891731	T40	4/3/20
83	T19891732	T40G	4/3/20
84	T19891733	T41	4/3/20
85	T19891734	T41G	4/3/20
86	T19891735	TFG01	4/3/20

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	CJ01	JACK-OPEN	4	1	T19891650
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:24 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-VXaDleo7?GjzDsPSzFsKc2LKJBwyYal_u5x_khzUPTP



Scale = 1:34.8

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

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	0.73	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.00	4-5	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.24	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MR							Weight: 18 lb	FT = 20%

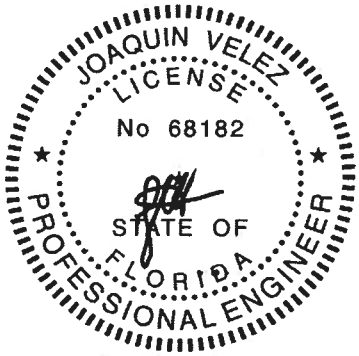
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 0-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 5=-222(LC 10)
Max Uplift 5=-787(LC 10), 3=-300(LC 9), 4=-531(LC 9)
Max Grav 5=794(LC 9), 3=289(LC 10), 4=581(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-469/339, 2-3=-326/263

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; 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) All plates are MT20 plates unless otherwise indicated.
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.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=787, 3=300, 4=531.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 *ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891651
2268020	CJ01A	Jack-Open	14	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:24 2020 Page 1
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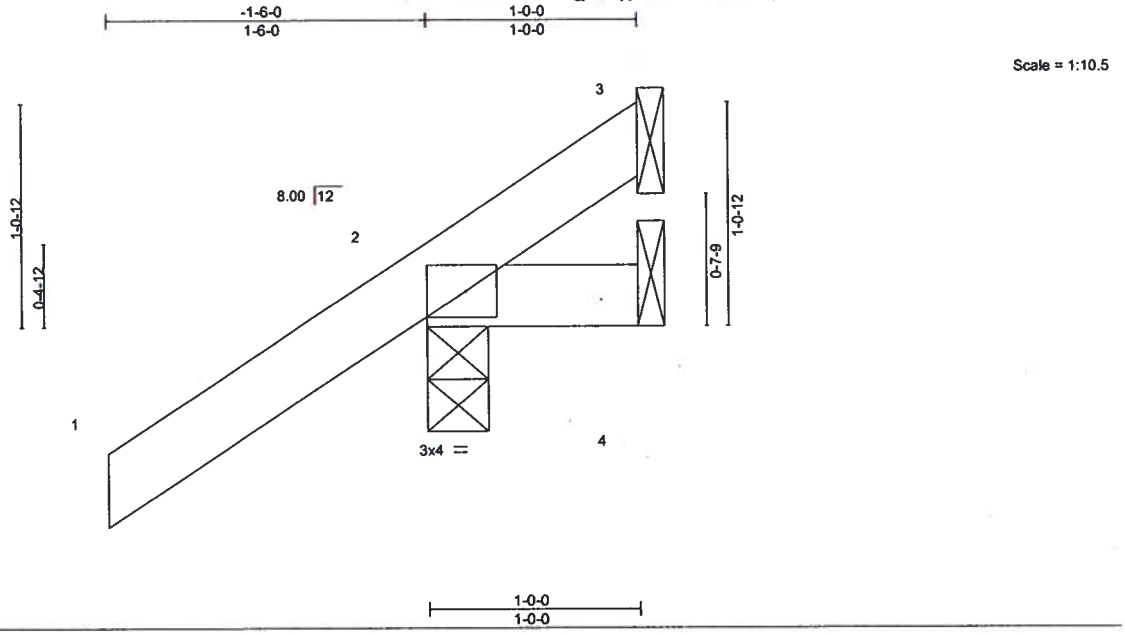


Plate Offsets (X,Y)-- [2:Edge,0-1-8]

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	0.20	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	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%

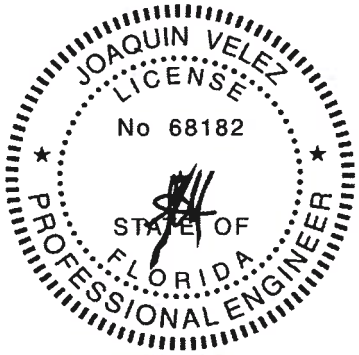
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=81(LC 12)
Max Uplift 3=-5(LC 1), 2=-123(LC 12), 4=-20(LC 1)
Max Grav 3=11(LC 8), 2=179(LC 1), 4=33(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=28ft; 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
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=123.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

⚠ *WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 *ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	CJ03	JACK-OPEN	4	1	T19891652
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:25 2020 Page 1
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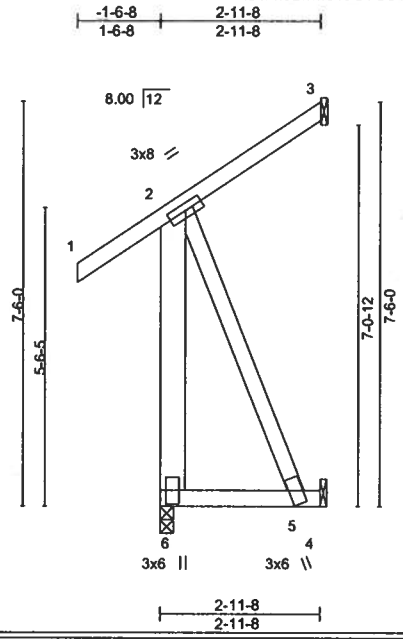


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	-0.04	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 33 lb	FT = 20%

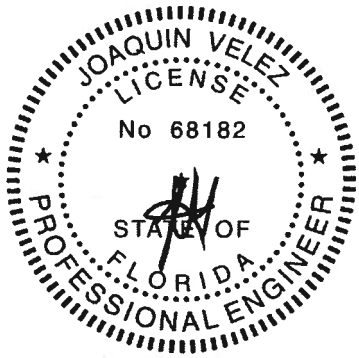
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-5: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-8 oc bracing.

REACTIONS. (size) 6=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 6=-247(LC 10)
Max Uplift 6=-173(LC 10), 3=-58(LC 12), 4=-306(LC 9)
Max Grav 6=271(LC 9), 3=53(LC 19), 4=323(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-567/415
BOT CHORD 5-6=-312/262
WEBS 2-5=-656/780

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; 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) 3 except (jt=lb) 6=173, 4=306.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 *ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

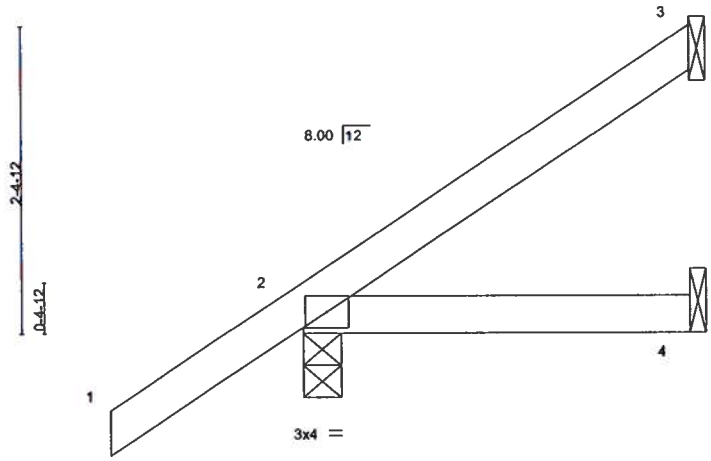
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891653
2268020	CJ03A	Jack-Open	12	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:26 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-Rwh_jKqOWuzgTAZq5gvohTQn2?hQ0UBHMPQ5pazUPTN

-1-6-0 3-0-0
1-6-0 3-0-0

Scale = 1:17.3



3-0-0
3-0-0

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	0.20	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	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: 13 lb	FT = 20%

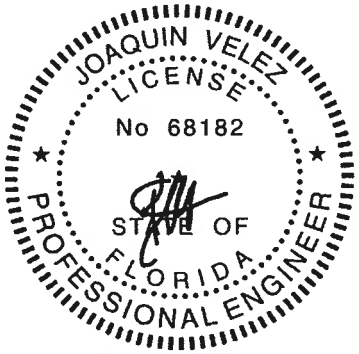
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=150(LC 12)
Max Uplift 3=-73(LC 12), 2=-97(LC 12), 4=-1(LC 12)
Max Grav 3=73(LC 19), 2=210(LC 1), 4=51(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=28ft; 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
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
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Date:
April 3,2020

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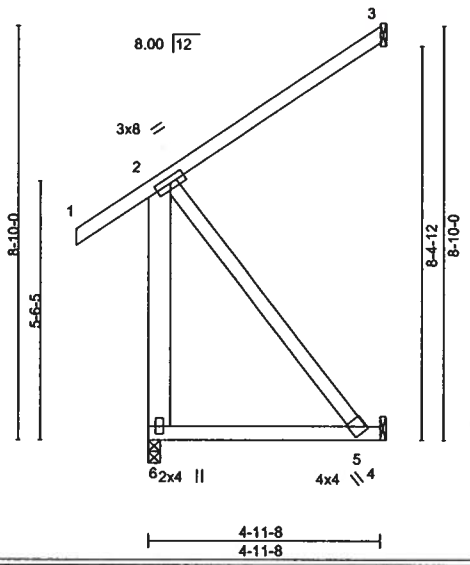
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	CJ05	JACK-OPEN	4	1	T19891654
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:27 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-w6FMwgr0HB6X4K81fOQ1EgzuFP?4lpDQb39eL0zUPTM

Scale = 1:47.5



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	0.50	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.06	5-6	>984	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 41 lb	FT = 20%

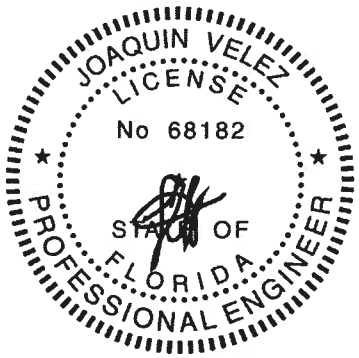
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-5: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-10 oc bracing.

REACTIONS. (size) 6=0-3-0, 3=Mechanical, 4=Mechanical
Max Horz 6=-273(LC 10)
Max Uplift 6=-39(LC 10), 3=-141(LC 12), 4=-212(LC 9)
Max Grav 6=286(LC 1), 3=132(LC 19), 4=245(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-324/189
BOT CHORD 5-6=-390/324
WEBS 2-5=-513/618

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; 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) 6 except (jt=lb) 3=141, 4=212.



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April 3,2020

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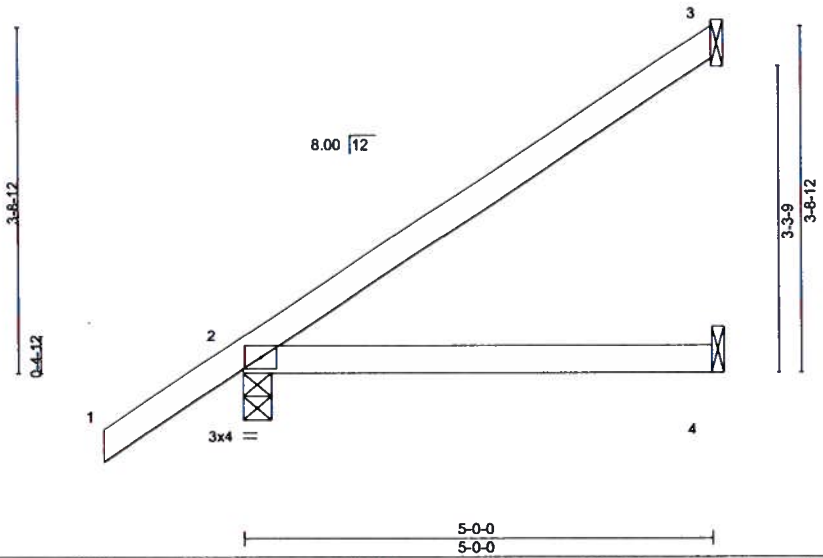
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891655
2268020	CJ05A	Jack-Open	11	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:27 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-w6FMwgr0HB6X4K81fOQ1EgzvyP?qlwRQb39eL0zUPTM

-1-6-0 / 1-6-0 — 5-0-0 / 5-0-0

Scale: 1/2"=1'



5-0-0 / 5-0-0

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	0.39	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.07	4-7	>816	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%

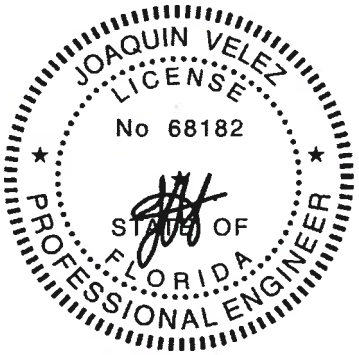
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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=221(LC 12)
Max Uplift 3=-136(LC 12), 2=-103(LC 12), 4=-10(LC 12)
Max Grav 3=135(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=28ft; 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
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=136, 2=103.



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Date:
April 3,2020

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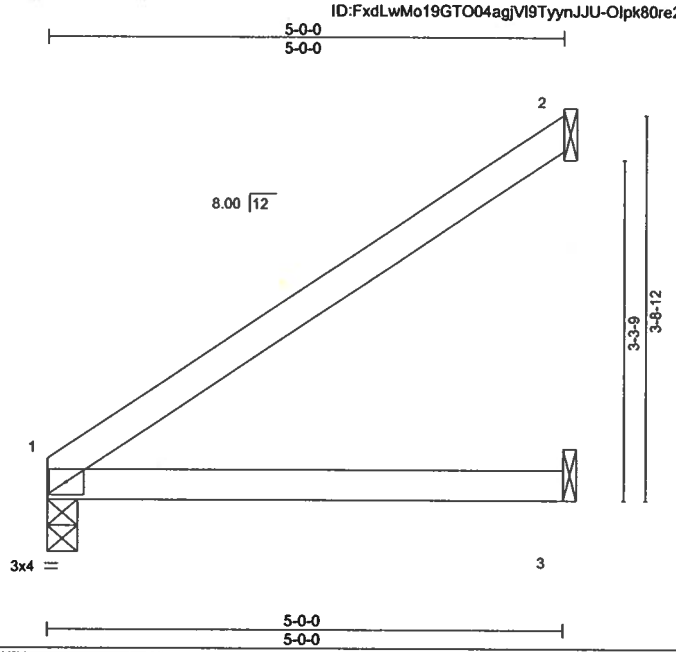
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	CJ05B	JACK-OPEN	1	1	T19891656
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:28 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-Olpk80re2VEOiUjDC5xGmuW5zoLRUNhapjvCtTzUPTL



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	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.07	3-6	>876	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: 17 lb	FT = 20%

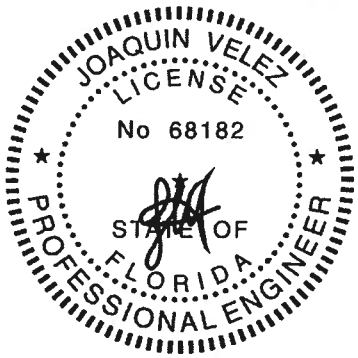
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=176(LC 12)
Max Uplift 1=-35(LC 12), 2=-141(LC 12), 3=-16(LC 12)
Max Grav 1=183(LC 1), 2=141(LC 19), 3=91(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=28ft; 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
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) 1, 3 except (jt=lb) 2=141.



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Date:
April 3,2020

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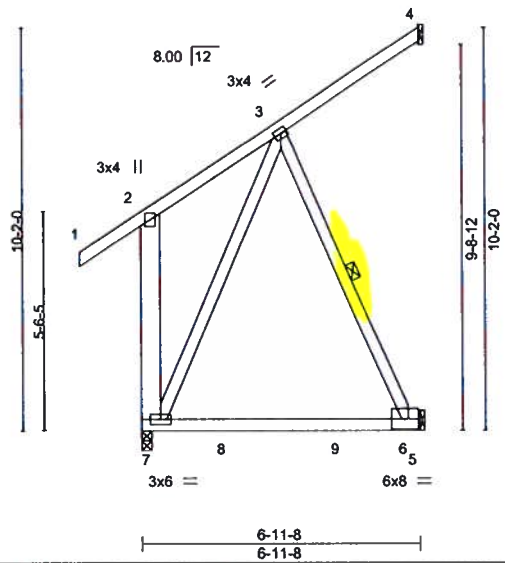
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891657
2268020	EJ01	JACK-PARTIAL	6	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:29 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-sVN6LMsGppMFKdIPmpSVJ52H0CdgDf6j2NeIPvzUPTK

-1-6-8 | 3-5-12 | 6-11-8
1-6-8 | 3-5-12 | 3-5-12

Scale = 1:55.9



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)	-0.11	6-7	>724	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.20	6-7	>401	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 61 lb	FT = 20%

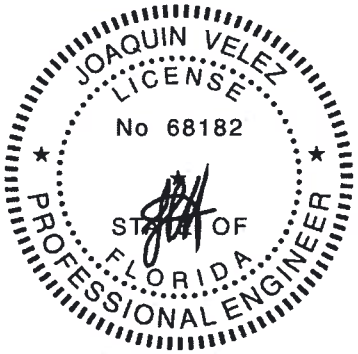
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7: 2x6 SP No.2

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.
WEBS 1 Row at midpt 3-6

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-0
Max Horz 7=263(LC 9)
Max Uplift 4=-61(LC 12), 5=-202(LC 12)
Max Grav 4=91(LC 19), 5=315(LC 19), 7=356(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-359/335, 2-3=-304/326
WEBS 3-7=-600/488, 3-6=-500/552

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; 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) 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, with BCDL = 10.0psf.
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) 5=202.



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Date:
April 3,2020

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891658
2268020	EJ02	Jack-Partial	22	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:30 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-KhxUZhtua6U6xnscKWzksJbRlc_byGOtH1OlyLzUPTJ

-1-6-0 3-6-7 7-0-0
1-6-0 3-6-7 3-5-9

Scale = 1:30.2

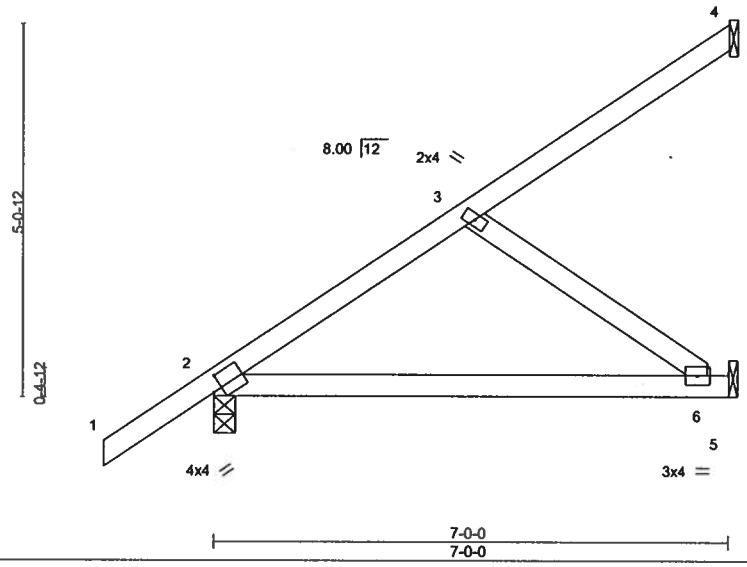

Plate Offsets (X,Y)-- [2:0-1-9,0-2-5]

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	0.35	Vert(LL)	-0.08	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.16	6-9	>529	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 32 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.
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=201(LC 12)
Max Uplift 4=-65(LC 12), 2=-57(LC 12), 5=-68(LC 12)
Max Grav 4=83(LC 19), 2=346(LC 1), 5=194(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-6=-206/280
WEBS 3-6=-343/252

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., 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 3-6-0 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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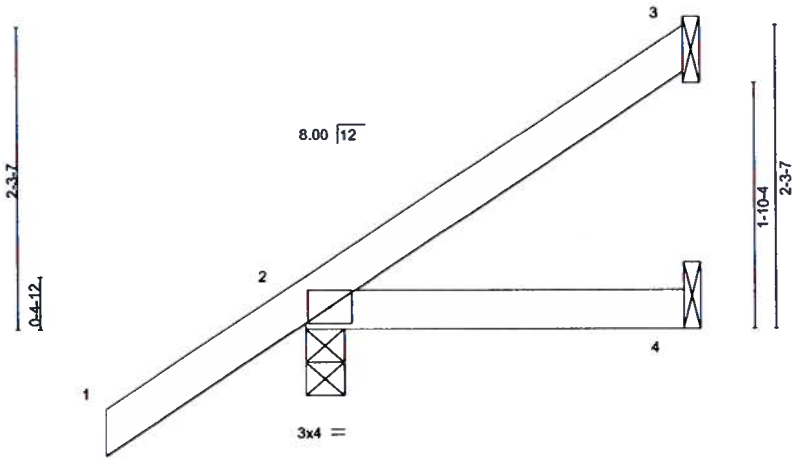
Job	Truss	Truss Type	Qty	Ply	tC CONST. - HANDY RES.	T19891659
2268020	EJ03	JACK-OPEN	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:30 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-KhxUZhtua6U6xnscKWzksJbT1c3XyHBtH1OlyLzUPTJ

-1-6-0 / 1-6-0 | 2-10-0 / 2-10-0

Scale = 1:16.7



2-10-0 / 2-10-0

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	0.20	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	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%

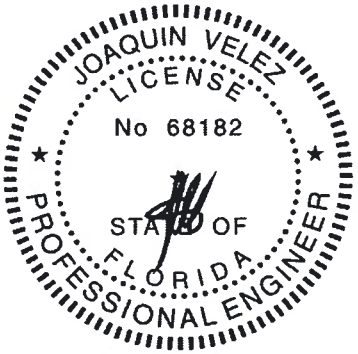
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-0 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=98(LC 12)
Max Uplift 3=-45(LC 12), 2=-51(LC 12)
Max Grav 3=65(LC 19), 2=205(LC 1), 4=47(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=28ft; Cat. II; Exp C; Encl., 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 3-6-0 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
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Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	EJ04	JACK-OPEN GIRDER	1	1	T19891660
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:31 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-otVtm1uWLQczZxRouEUzOW8ef0J4hk00Vh7sUozUPTI

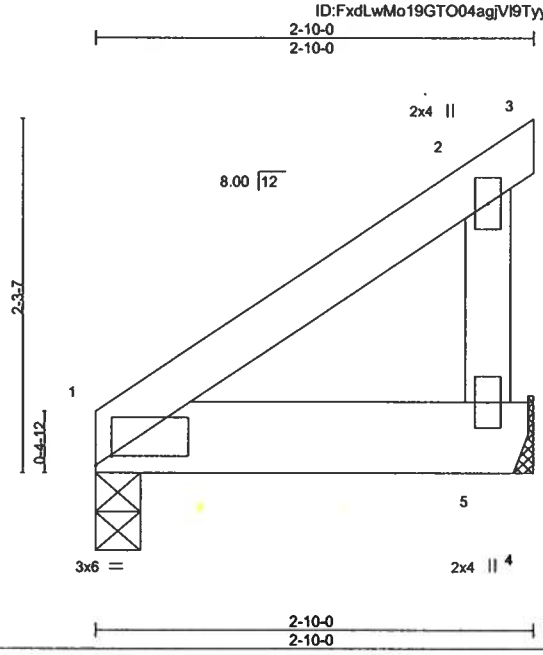


Plate Offsets (X,Y)– [1:0-1-4,0-0-11]

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	0.21	Vert(LL)	-0.01	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.02	5-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 14 lb	FT = 20%

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

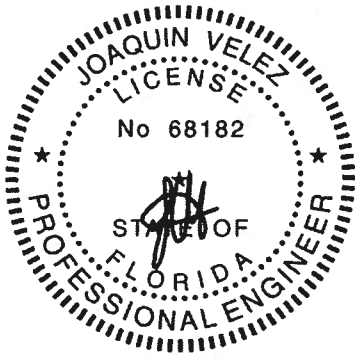
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=Mechanical
Max Horz 1=99(LC 8)
Max Uplift 1=-233(LC 8), 5=-166(LC 8)
Max Grav 1=976(LC 1), 5=387(LC 1)

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=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) 1=233, 5=166.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1165 lb down and 304 lb up at 0-10-12 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, 2-3=-14, 1-4=-20
Concentrated Loads (lb)
Vert: 7=-1165(F)



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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	EJ05	Monopitch Supported Gable	1	1	T19891661
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:32 2020 Page 1
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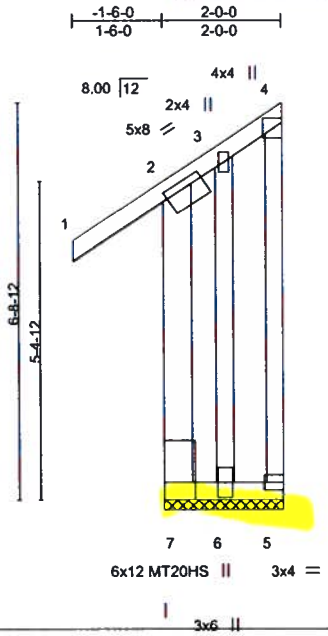


Plate Offsets (X,Y)-- [2:0-1-1,0-1-8], [5:Edge,0-1-8]

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	0.66	Vert(LL)	0.00	2	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.00	2	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-R							Weight: 39 lb	FT = 20%

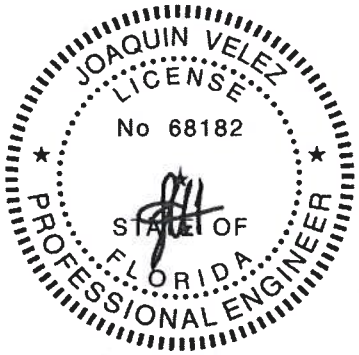
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
4-5: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 7=2-0-0, 5=2-0-0, 6=2-0-0
Max Horz 7=-228(LC 10)
Max Uplift 7=-691(LC 10), 5=-98(LC 9), 6=-695(LC 9)
Max Grav 7=743(LC 9), 5=103(LC 10), 6=718(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-473/341, 2-3=-321/256
WEBS 3-6=-376/454

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; 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) 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.
3) All plates are MT20 plates unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=691, 6=695.



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April 3,2020

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891662
2268020	F01	Floor	4	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:33 2020 Page 1
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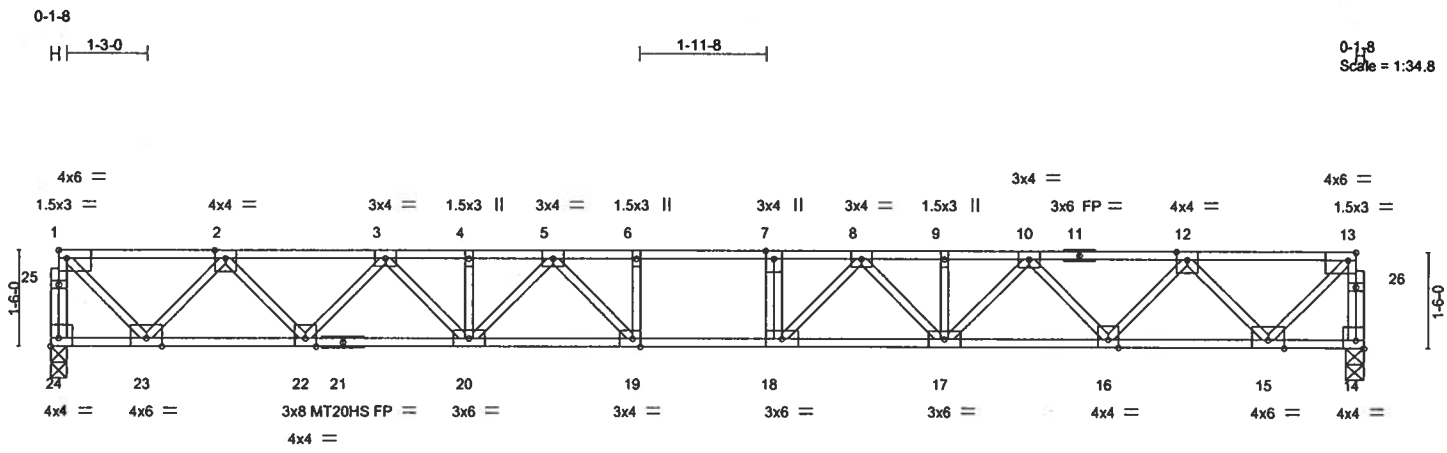


20-7-0
20-7-0

Plate Offsets (X,Y)– [1:Edge,0-1-8], [13:0-1-8,Edge], [14:Edge,0-1-8], [19:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.25	18-19	>982	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.34	18-19	>714	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.07	14	n/a	n/a		
BCDL	5.0	Code	FBC2017/TPI2014	Matrix-S							Weight: 114 lb	FT = 20%F, 11%E

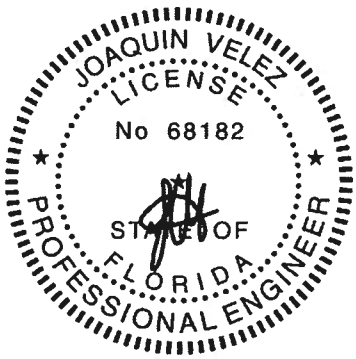
LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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.

REACTIONS. (size) 24=0-3-0, 14=0-3-8
Max Grav 24=1112(LC 1), 14=1112(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-1107/0, 13-14=-1107/0, 1-2=-1008/0, 2-3=-2529/0, 3-4=-3578/0, 4-5=-3578/0, 5-6=-4102/0, 6-7=-4102/0, 7-8=-4102/0, 8-9=-3579/0, 9-10=-3579/0, 10-12=-2529/0, 12-13=-1008/0
BOT CHORD 22-23=0/1903, 20-22=0/3131, 19-20=0/3895, 18-19=0/4102, 17-18=0/3896, 16-17=0/3131, 15-16=0/1903
WEBS 13-15=0/1388, 1-23=0/1388, 12-15=-1329/0, 2-23=-1330/0, 12-16=0/930, 2-22=0/931, 10-16=-896/0, 3-22=-895/0, 10-17=0/648, 3-20=0/648, 8-17=-461/0, 5-20=-468/0, 8-18=-116/641, 5-19=-114/647, 6-19=-343/6, 7-18=-332/4

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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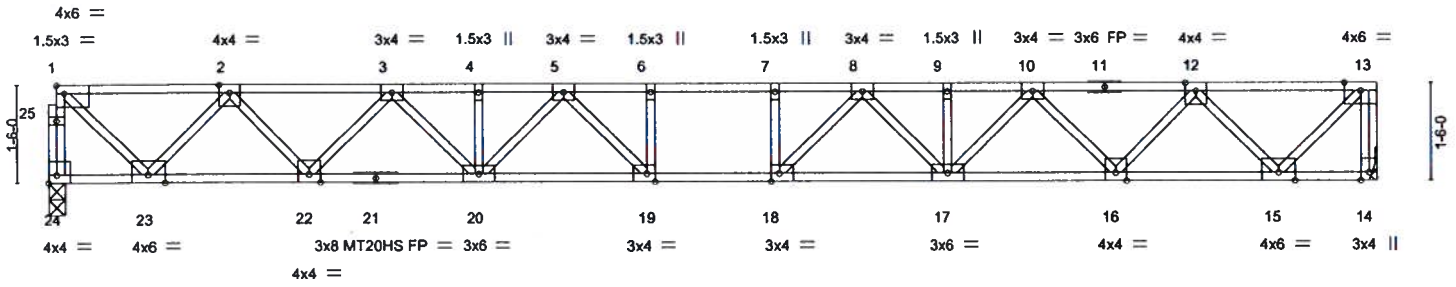
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891663
2268020	F02	FLOOR	11	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:34 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-CSA?O3wPeL_YQPANZM2g09m8GDLruxlSCfMW56zUPTF

0-1-8
H 1-3-0 1-9-8

Scale = 1:34.1



1-6-0	4-0-0	16-3-8	18-9-8	20-3-8
1-6-0	2-6-0	12-3-8	2-6-0	1-6-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.24	18-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.32	18-19	>745	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 112 lb	FT = 20%F, 11%E

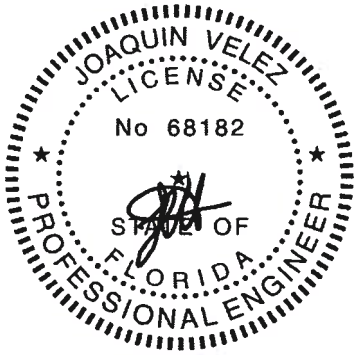
LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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.

REACTIONS. (size) 24=0-3-0, 14=Mechanical
Max Grav 24=1096(LC 1), 14=1102(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-1091/0, 13-14=-1096/0, 1-2=-992/0, 2-3=-2484/0, 3-4=-3503/0, 4-5=-3503/0, 5-6=-3990/0, 6-7=-3990/0, 7-8=-3990/0, 8-9=-3504/0, 9-10=-3504/0, 10-12=-2484/0, 12-13=-991/0
BOT CHORD 22-23=0/1872, 20-22=0/3071, 19-20=0/3806, 18-19=0/3990, 17-18=0/3806, 16-17=0/3071, 15-16=0/1874
WEBS 13-15=0/1402, 1-23=0/1366, 12-15=-1313/0, 2-23=-1308/0, 12-16=0/907, 2-22=0/909, 10-16=-872/0, 3-22=-874/0, 10-17=0/627, 3-20=0/626, 8-17=-449/0, 5-20=-449/0, 8-18=-128/598, 5-19=-128/598, 6-19=-314/17, 7-18=-314/17

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891664
2268020	F03	Floor	2	1	Job Reference (optional)	

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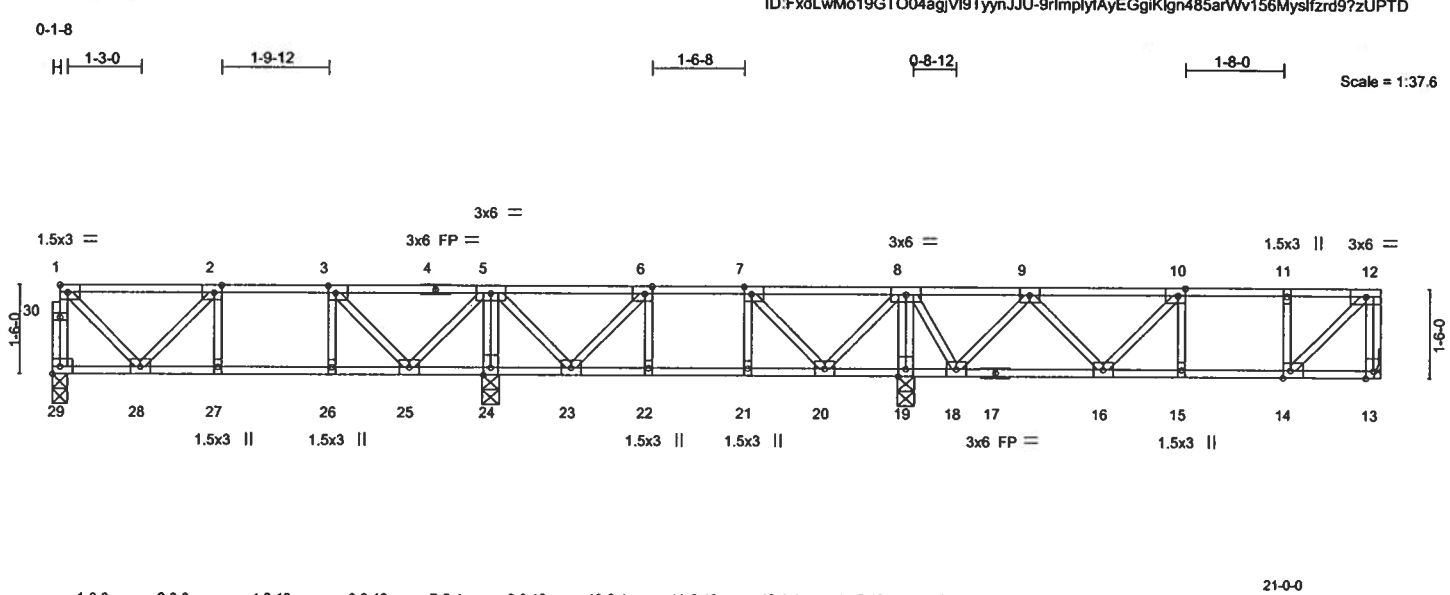


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.04	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.05	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 126 lb	FT = 20%F, 11%E

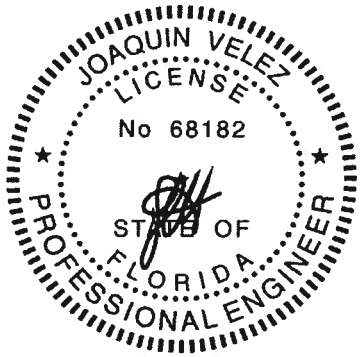
LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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. All bearings 0-3-8 except (jt=length) 29=0-3-0, 13=Mechanical.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 29=372(LC 3), 13=351(LC 13), 24=793(LC 3), 19=1004(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=-370/0, 12-13=-381/0, 1-2=-261/0, 2-3=-468/0, 6-7=-343/245, 7-8=-88/399, 8-9=0/378, 9-10=-312/0, 10-11=-371/0, 11-12=-371/0
BOT CHORD 27-28=0/468, 26-27=0/468, 25-26=0/468, 24-25=-347/0, 23-24=-347/0, 22-23=-245/343, 21-22=-245/343, 20-21=-245/343, 19-20=-641/0, 18-19=-647/0, 15-16=0/371, 14-15=0/371
WEBS 5-24=-763/0, 8-19=-961/0, 1-28=0/354, 2-28=-301/13, 3-25=-474/0, 5-25=0/427, 5-23=-24/313, 6-23=-278/83, 8-20=0/452, 7-20=-519/0, 9-16=0/252, 9-18=-588/0, 8-18=0/507, 12-14=0/513

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891665
2268020	F04	Floor	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:37 2020 Page 1
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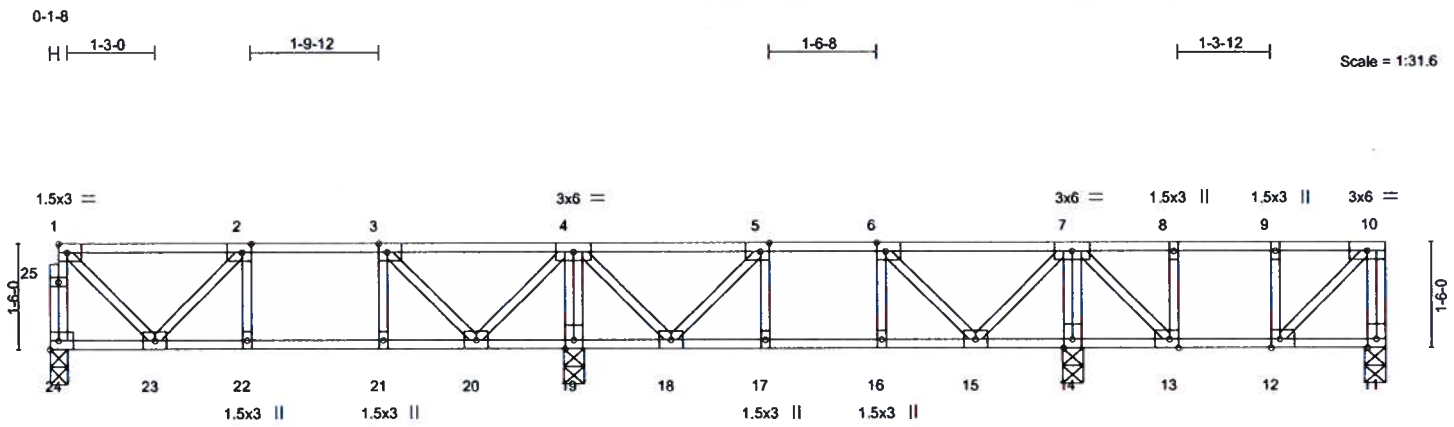


7-5-4 | 14-5-12 | 18-11-0
7-5-4 | 7-0-8 | 4-5-4

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.02	22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.02	22	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 108 lb	FT = 20%F, 11%E

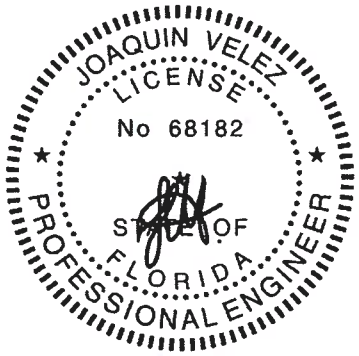
LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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. All bearings 0-3-8 except (jt=length) 24=0-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 11 except 24=398(LC 14), 19=820(LC 12), 14=650(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-393/0, 1-2=-287/0, 2-3=-541/0, 3-4=-300/0, 4-5=-341/0, 5-6=-541/0, 6-7=-295/0
BOT CHORD 22-23=0/541, 21-22=0/541, 20-21=0/541, 17-18=0/541, 16-17=0/541, 15-16=0/541
WEBS 4-19=-791/0, 7-14=-654/0, 1-23=0/390, 4-20=0/385, 2-23=-367/0, 3-20=-408/0, 7-15=0/359, 4-18=0/359, 6-15=-355/0, 5-18=-369/0, 10-12=0/260, 7-13=0/277

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.



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Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891666
2268020	F05	Floor	9	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:38 2020 Page 1
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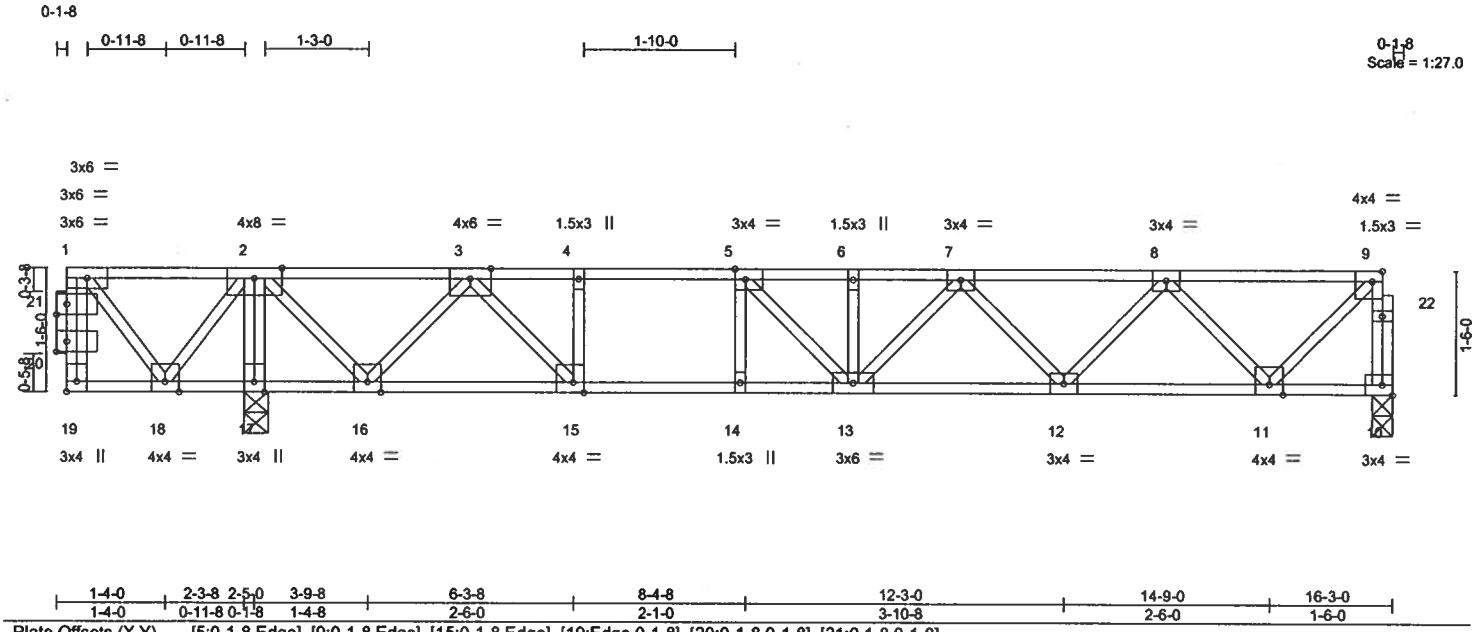


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [9:0-1-8,Edge], [15:0-1-8,Edge], [19:Edge,0-1-8], [20:0-1-8,0-1-8], [21:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.15	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.20	13-14	>803	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code	FBC2017/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

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

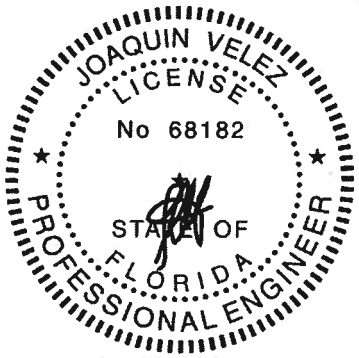
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 10=0-3-0, 17=0-3-8
Max Grav 10=716(LC 4), 17=1729(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-712/0, 1-2=0/564, 2-3=-331/880, 3-4=-1495/284, 4-5=-1495/284, 5-6=-1764/5, 6-7=-1764/5, 7-8=-1410/0, 8-9=-615/0
BOT CHORD 17-18=-1119/0, 16-17=-1115/0, 15-16=-623/941, 14-15=-284/1495, 13-14=-284/1495, 12-13=0/1659, 11-12=0/1148
WEBS 2-17=-1625/0, 1-18=-912/0, 2-18=0/894, 9-11=0/844, 2-16=0/916, 8-11=-792/0, 3-16=-1023/0, 8-12=-29/389, 3-15=0/1089, 7-12=-371/52, 4-15=-511/0, 6-13=-322/0, 5-14=-316/0, 5-13=-27/727

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-19=-10, 1-9=-100
Concentrated Loads (lb)
Vert: 1=-620



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Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891667
2268020	F06	Floor	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:39 2020 Page 1
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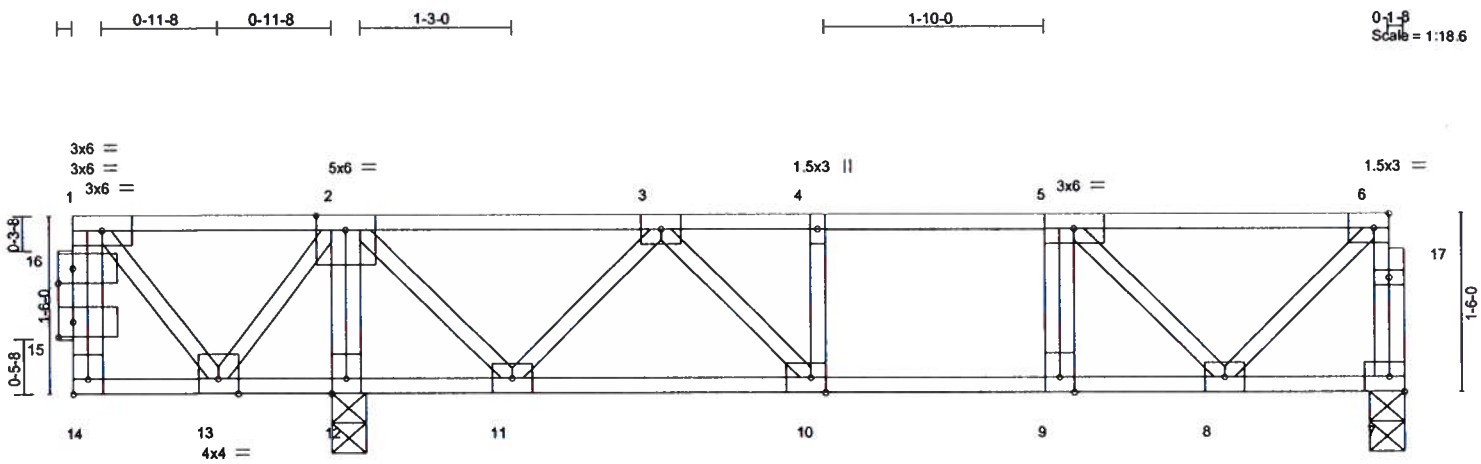


2-3-8	2-5-0	3-9-8	8-6-0	11-3-0
2-3-8	0-1-8	1-4-8	4-8-8	2-9-0

Plate Offsets (X,Y)— [6:0-1-8,Edge], [10:0-1-8,Edge], [14:Edge,0-1-8], [15:0-1-8,0-1-8], [16:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	0.11	10-11	>966	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	0.13	10-11	>822	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.00		n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 68 lb	FT = 20%F, 11%E

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

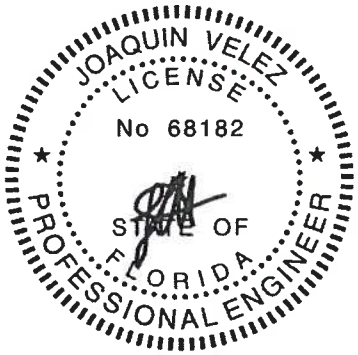
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 12=0-3-8
Max Horz 7=481(LC 3), 12=-481(LC 3)
Max Uplift 7=-55(LC 3)
Max Grav 7=423(LC 4), 12=1521(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-418/43, 1-2=0/564, 2-3=-106/891, 3-4=-596/300, 4-5=-596/300, 5-6=-313/88
BOT CHORD 12-13=-1122/0, 11-12=-974/0, 9-10=0/355, 8-9=0/355, 7-8=-304/479
WEBS 2-12=-1457/0, 1-13=-911/0, 2-13=0/899, 6-8=-125/425, 2-11=0/674, 5-8=-401/299, 3-11=-709/0, 4-10=-307/0, 3-10=0/690

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 7.
4) n/a
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-14=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 1=-620



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Date:
April 3,2020

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891668
2268020	F07	Floor	7	1	Job Reference (optional)	

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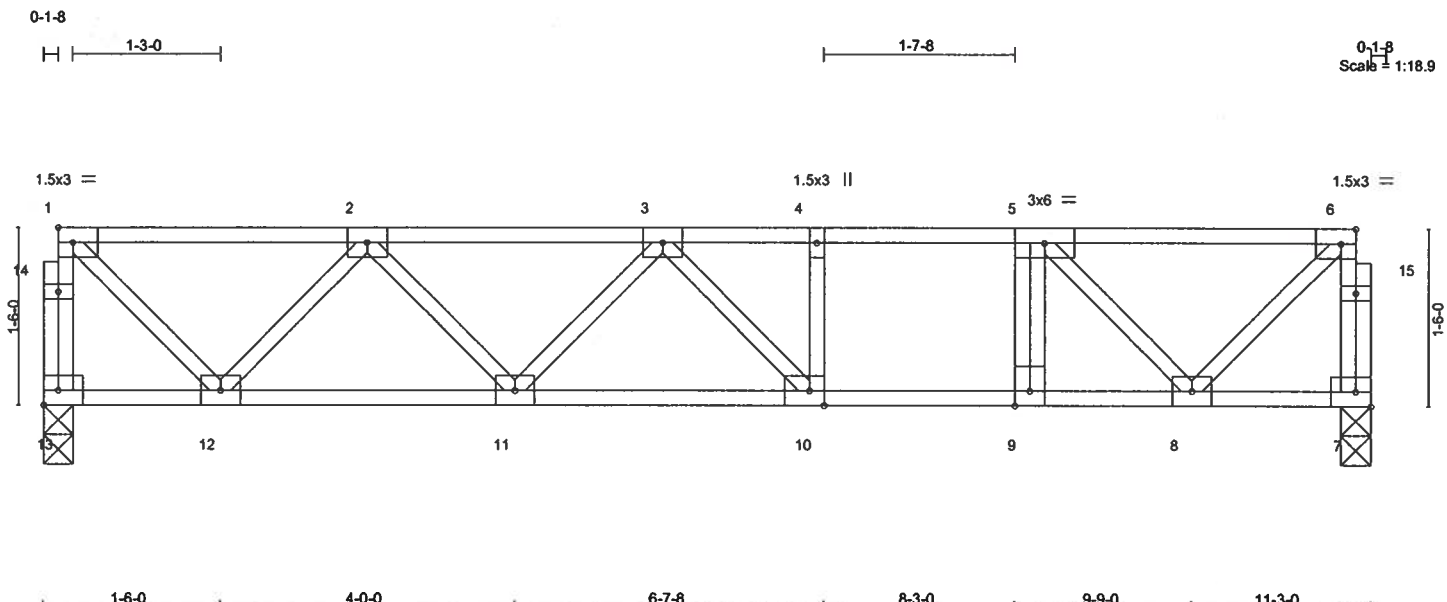


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.14	10-11	>931	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.19	10-11	>705	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 64 lb	FT = 20%F, 11%E

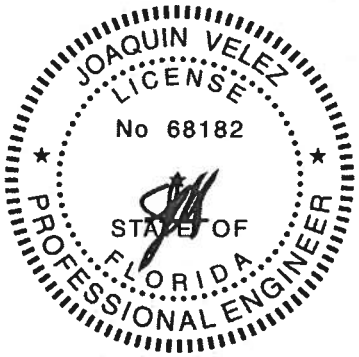
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 13=0-3-0, 7=0-3-0
Max Grav 13=599(LC 1), 7=599(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-590/0, 6-7=-577/0, 1-2=-491/0, 2-3=-1105/0, 3-4=-1065/0, 4-5=-1065/0, 5-6=-495/0
BOT CHORD 11-12=0/928, 10-11=0/1217, 9-10=0/1065, 8-9=0/1065
WEBS 1-12=0/672, 2-12=-649/0, 2-11=0/263, 3-10=-296/81, 6-8=0/678, 5-8=-806/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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6904 Parke East Blvd. Tampa FL 33610
Date:
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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891669
2268020	F08	Floor	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:41 2020 Page 1
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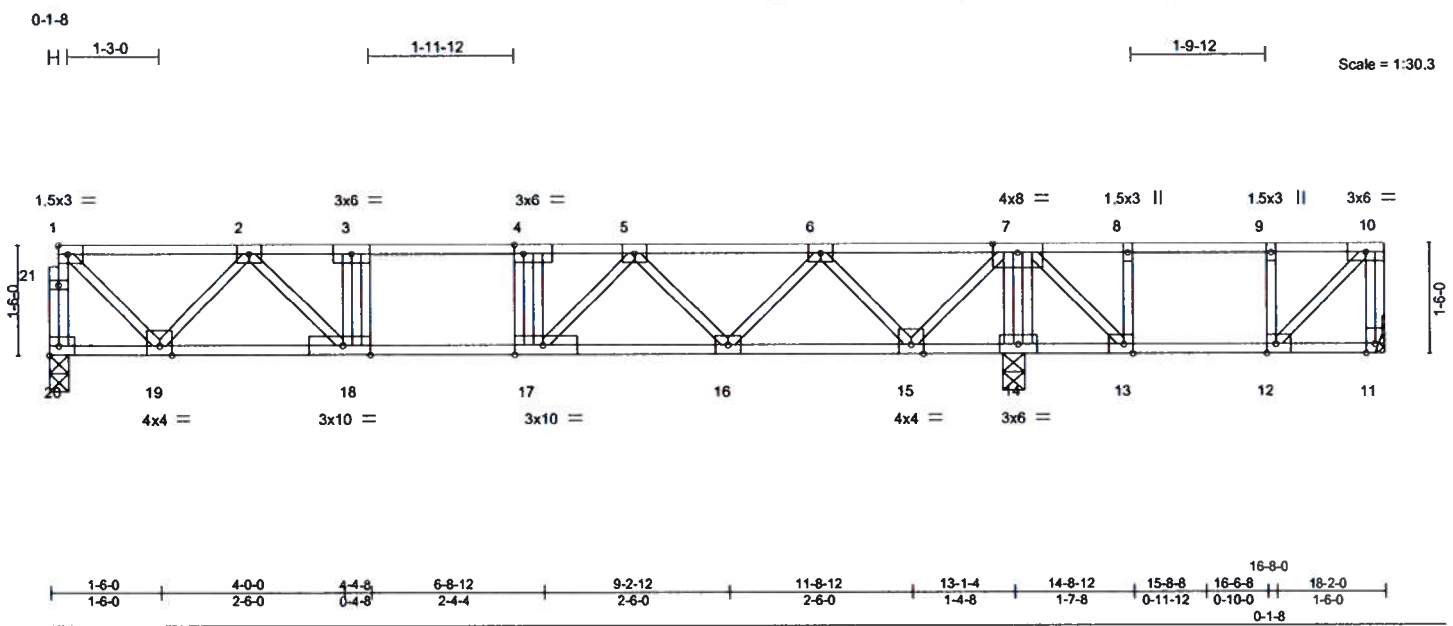


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-4-8,Edge], [18:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.15	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.20	16-17	>786	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 108 lb	FT = 20%F, 11%E

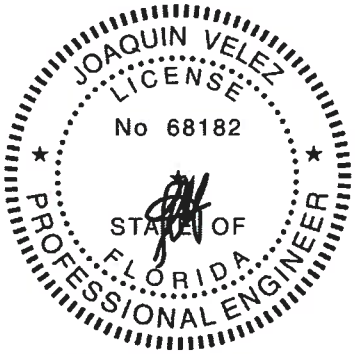
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 20=0-3-0, 11=Mechanical, 14=0-3-8
Max Uplift 11=-45(LC 3)
Max Grav 20=672(LC 10), 11=231(LC 4), 14=1155(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-655/0, 1-2=-548/0, 2-3=-1443/0, 3-4=-1453/0, 4-5=-1450/0, 5-6=-1166/0, 6-7=-303/0
BOT CHORD 18-19=0/1055, 17-18=0/1453, 16-17=0/1418, 15-16=0/862, 14-15=-459/0, 13-14=-459/0
WEBS 3-18=-315/0, 8-13=-268/0, 7-14=-1188/0, 1-19=0/750, 2-19=-754/0, 2-18=0/616, 7-15=0/925, 6-15=-841/0, 6-16=0/466, 5-16=-393/0, 5-17=-56/277, 7-13=0/601

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 11.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date:
April 3,2020

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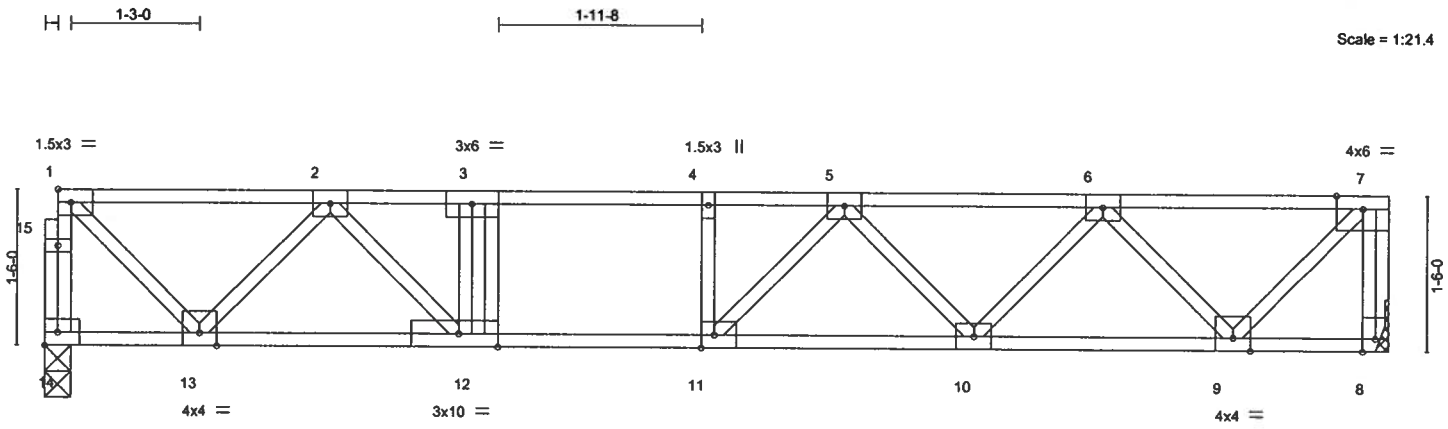
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	F08A	Floor	2	1	T19891670
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:42 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-z?f14o0Qlo_POdnv11BYLr5MXRz0md0e1vlxNfzUPT7



1-6-0	4-4-8	6-4-0	8-11-8	11-5-8	12-11-8
1-6-0	2-10-8	1-11-8	2-7-8	2-6-0	1-6-0

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.17	10-11	>923	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.22	10-11	>704	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 74 lb	FT = 20%F, 11%E

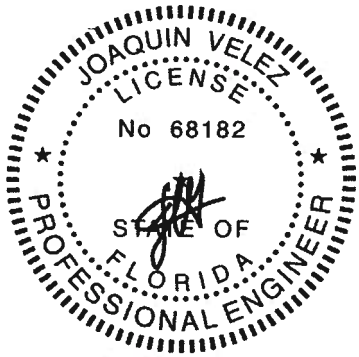
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 14=0-3-0, 8=Mechanical
Max Grav 14=693(LC 1), 8=699(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-674/0, 7-8=-690/0, 1-2=-566/0, 2-3=-1518/0, 3-4=-1528/0, 4-5=-1528/0, 5-6=-1366/0, 6-7=-584/0
BOT CHORD 12-13=0/1096, 11-12=0/1528, 10-11=0/1565, 9-10=0/1109
WEBS 3-12=-343/0, 1-13=0/775, 2-13=-788/0, 2-12=0/690, 7-9=0/826, 6-9=-779/0, 6-10=0/383, 5-10=-295/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



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April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891671
2268020	F09	Floor	6	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:43 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-SBDPH812W67G?nM6blint2ecWrLJV3ynGZ1Vv5zUPT6

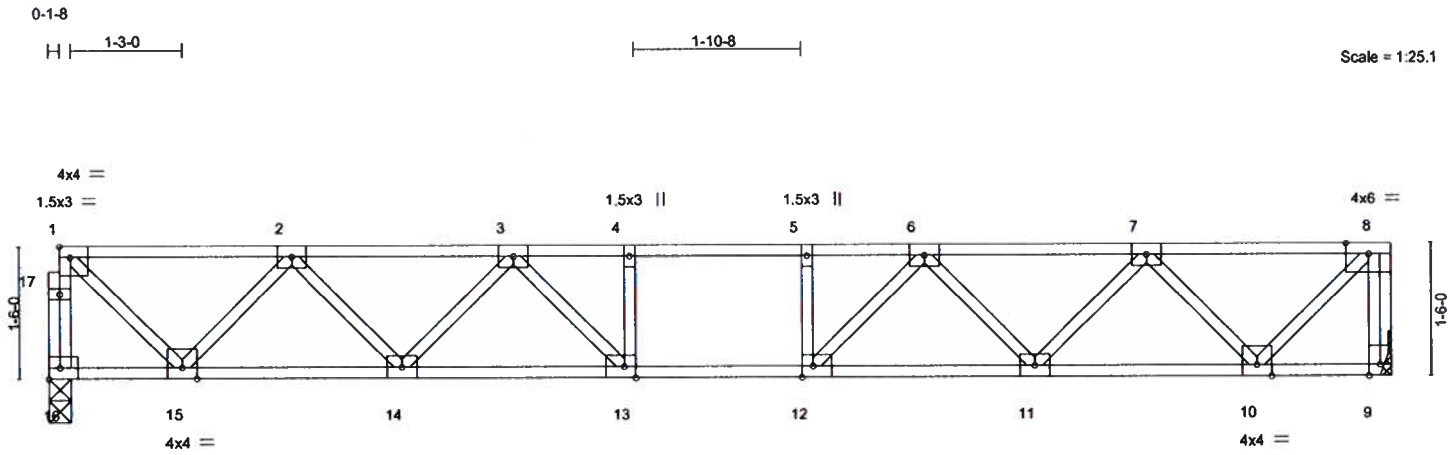


Plate Offsets (X,Y)– [1:Edge,0-1-8], [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.12	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.16	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 82 lb	FT = 20%F, 11%E

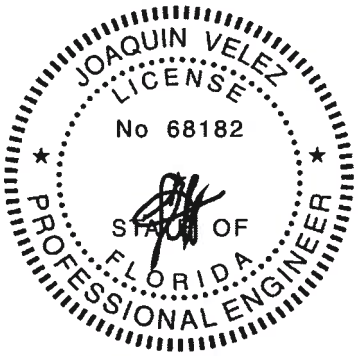
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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.

REACTIONS. (size) 16=0-3-0, 9=Mechanical
Max Grav 16=812(LC 1), 9=818(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-807/0, 8-9=-812/0, 1-2=-710/0, 2-3=-1685/0, 3-4=-2187/0, 4-5=-2187/0, 5-6=-2187/0, 6-7=-1685/0, 7-8=-708/0
BOT CHORD 14-15=0/1332, 13-14=0/2013, 12-13=0/2187, 11-12=0/2012, 10-11=0/1334
WEBS 8-10=0/1002, 1-15=0/975, 7-10=-930/0, 2-15=-926/0, 7-11=0/522, 2-14=0/524, 6-11=-486/0, 3-14=-488/0, 6-12=-14/475, 3-13=-15/475, 4-13=-253/0, 5-12=-253/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



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April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891672
2268020	F10	Floor	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:44 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-wNnnVU2gHQF7dxxl8SD0QGAihFeZEViwVDn2RXzUPT5

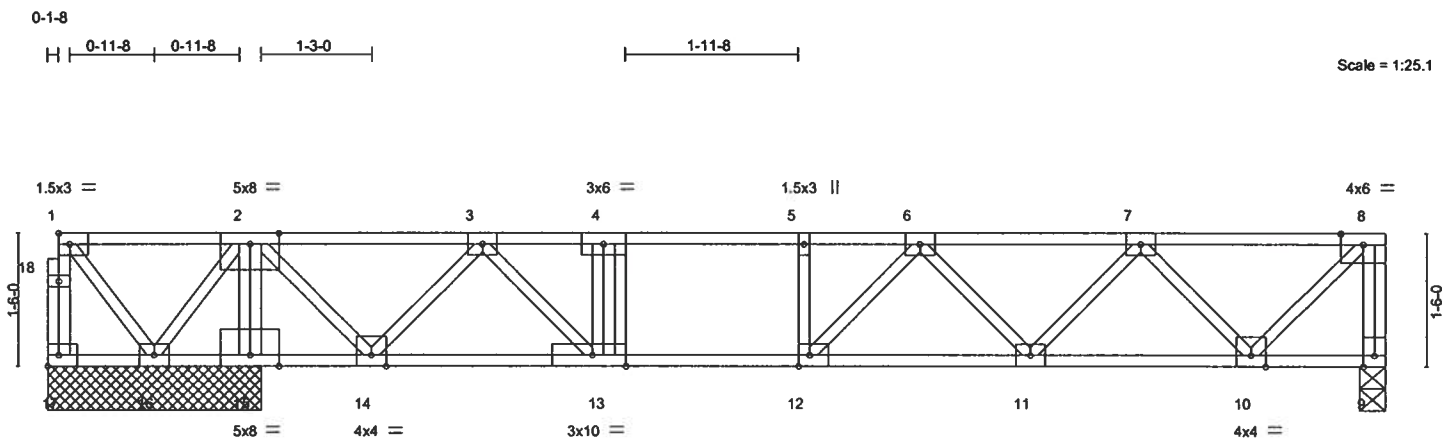

Plate Offsets (X,Y)-- [12:0-1-8,Edge], [13:0-4-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.14	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.19	11-12	>800	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	FBC2017/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%F, 11%E

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

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) 17=2-5-0, 9=0-3-8, 15=2-5-0, 16=2-5-0
Max Uplift 17=-497(LC 7)
Max Grav 9=707(LC 1), 15=5120(LC 7), 16=944(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=0/505, 8-9=-698/0, 1-2=0/453, 2-3=-738/0, 3-4=-1566/0, 4-5=-1576/0, 5-6=-1576/0, 6-7=-1389/0, 7-8=-593/0
BOT CHORD 15-16=-220/425, 14-15=-202/440, 13-14=0/1142, 12-13=0/1576, 11-12=0/1596, 10-11=0/1125
WEBS 4-13=-317/0, 2-15=-5076/0, 1-16=-721/0, 2-16=-945/0, 2-14=0/748, 3-14=-763/0, 3-13=0/608, 8-10=0/839, 7-10=-790/0, 7-11=0/393, 6-11=-309/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 497 lb uplift at joint 17.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-17=-10, 1-8=-100
Concentrated Loads (lb)
Vert: 2=-4660

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MiTek USA, Inc. FL Cert 6634
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April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	F11	Floor	1	1	T19891673
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:44 2020 Page 1
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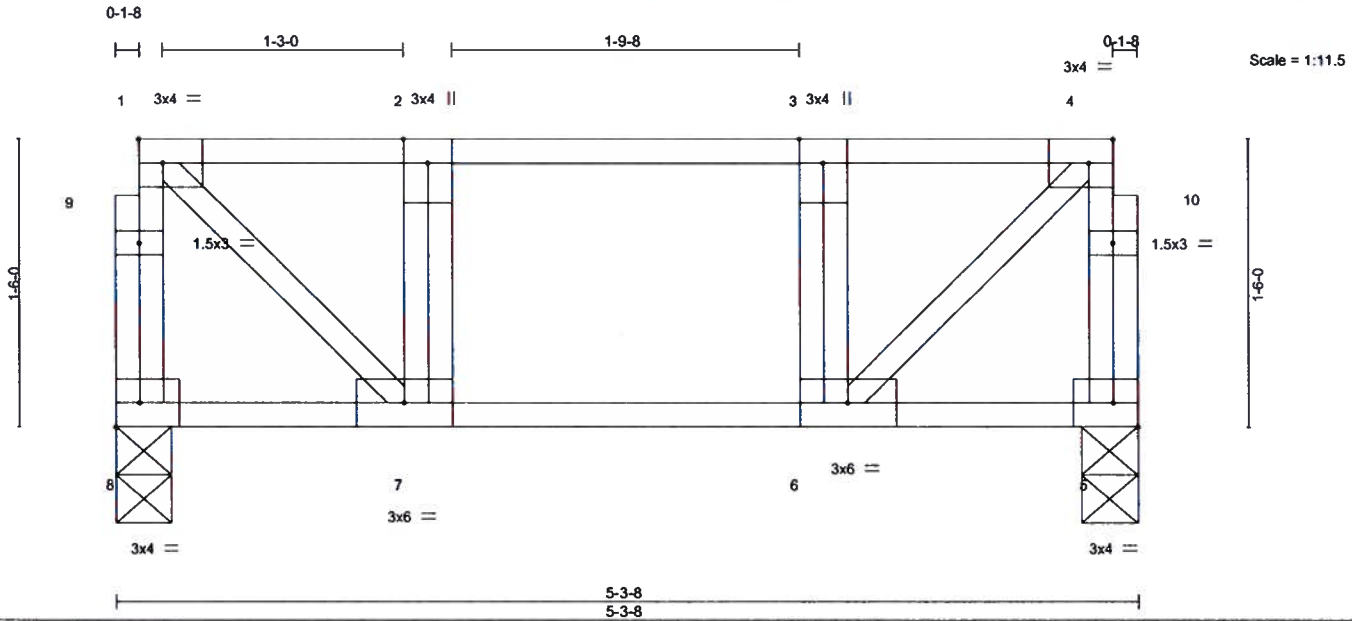


Plate Offsets (X,Y)— [4:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 35 lb	FT = 20%F, 11%E

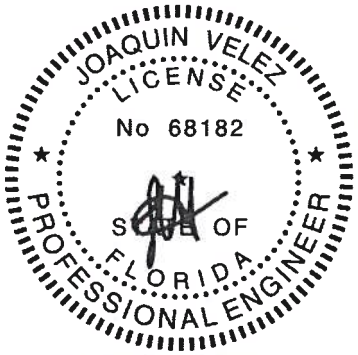
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=271(LC 1), 5=271(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-265/0, 4-5=-265/0
WEBS 4-6=0/310, 1-7=0/310

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	F12	Floor	1	1	T19891674
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:45 2020 Page 1
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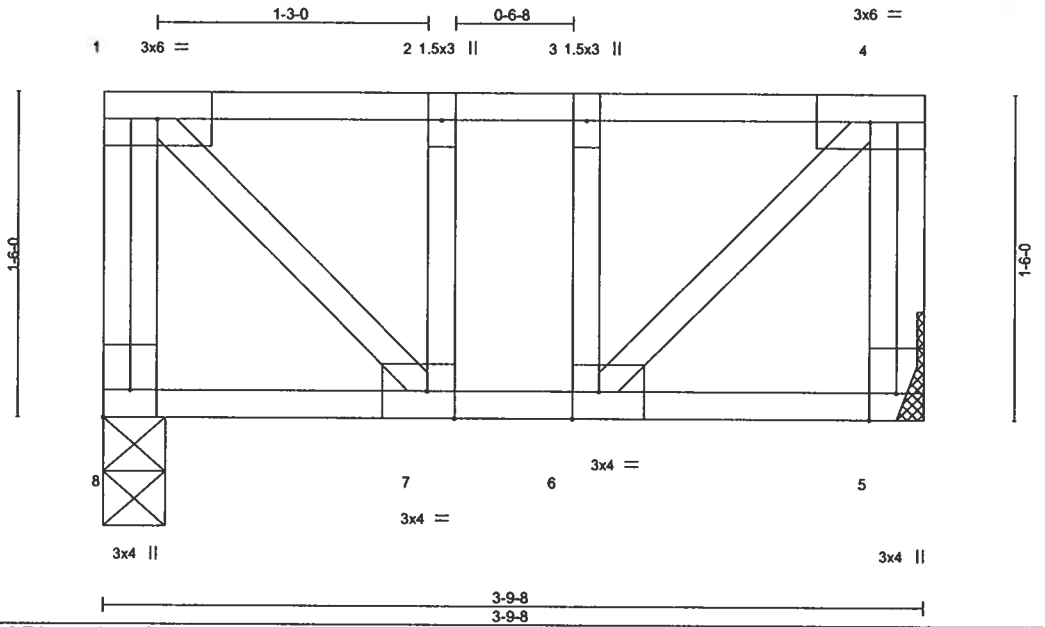


Scale = 1:10.3

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 28 lb	FT = 20%F, 11%E

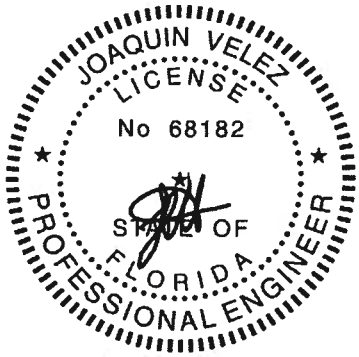
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=Mechanical
Max Grav 8=195(LC 1), 5=195(LC 1)

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

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891675
2268020	F13	Floor	10	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:46 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-smvYwA3xp1VrsF5gGtGUVhFDk3XFiU1DyXG9WQzUPT3

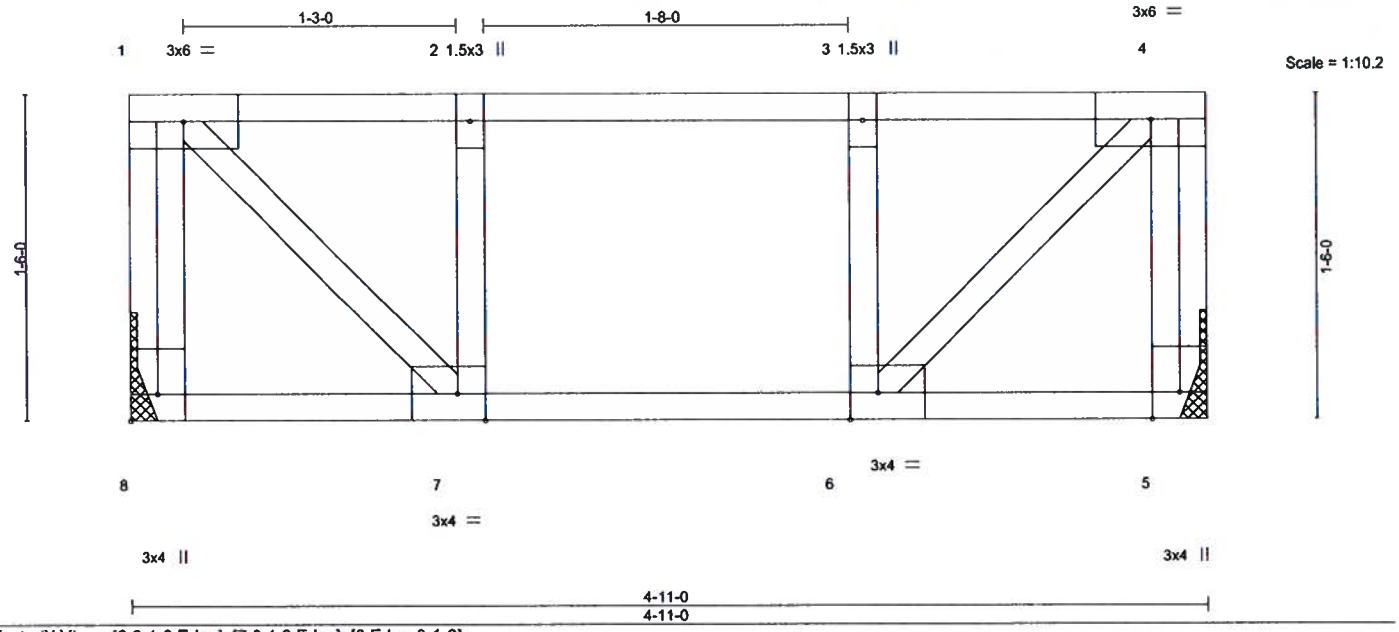


Plate Offsets (X,Y)– [6:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 31 lb	FT = 20%F, 11%E

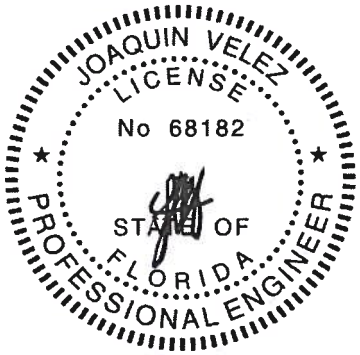
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=257(LC 1), 5=257(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-251/0, 4-5=-251/0
WEBS 4-6=0/284, 1-7=0/284

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Date:
April 3,2020

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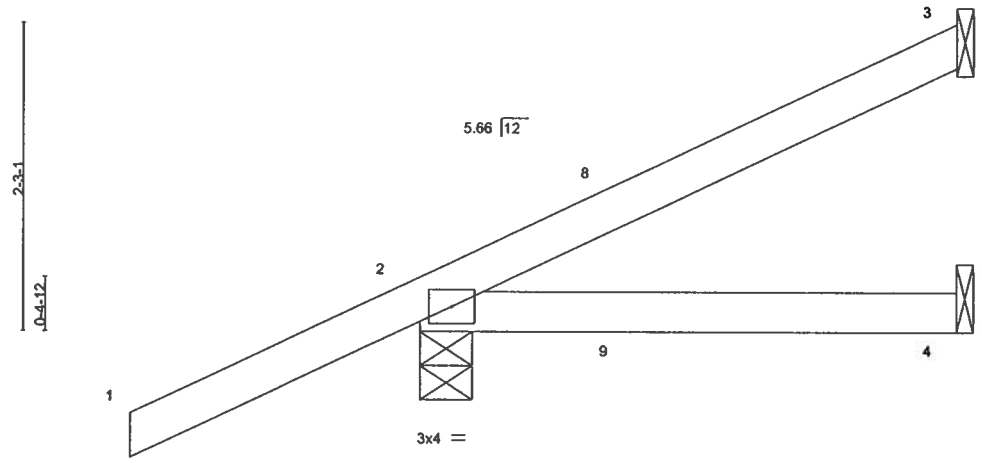
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891676
2268020	HJ04	DIAGONAL HIP GIRDER	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:47 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-KyTw7W4ZaLdiUOgtqbnj2uoMBSrsRzONBA?i2szUPT2

-2-1-7 2-1-7 | 3-11-5 3-11-5

Scale = 1:16.3



3-11-5 3-11-5

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	0.30	Vert(LL)	-0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 16 lb	FT = 20%

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

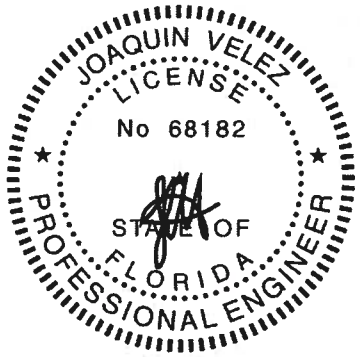
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=143(LC 8)
Max Uplift 3=-88(LC 8), 2=-192(LC 8), 4=-11(LC 17)
Max Grav 3=78(LC 1), 2=289(LC 1), 4=72(LC 30)

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=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 88 lb uplift at joint 3, 192 lb uplift at joint 2 and 11 lb uplift at joint 4.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb down and 77 lb up at 1-6-1, and 95 lb down and 77 lb up at 1-6-1 on top chord, and 32 lb down and 47 lb up at 1-6-1, and 32 lb down and 47 lb up at 1-6-1 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: 1-3=-54, 4-5=-20



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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891677
2268020	HJ09	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:48 2020 Page 1
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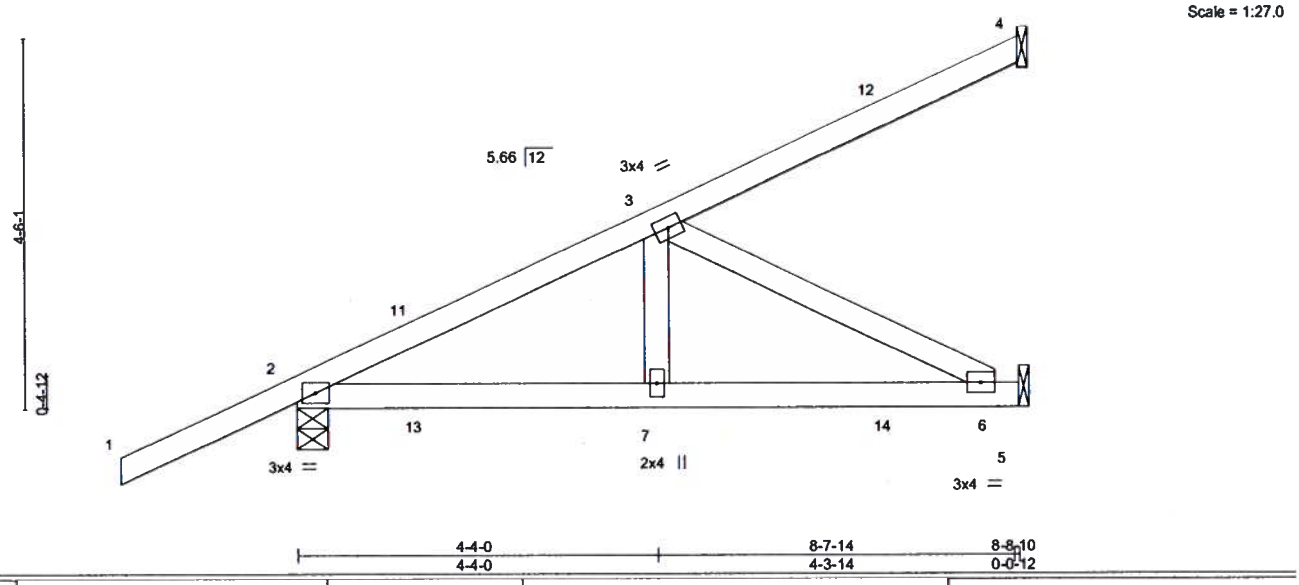


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 40 lb	FT = 20%

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

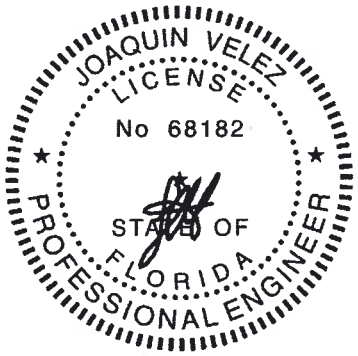
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-1-12 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=264(LC 8)
Max Uplift 4=-181(LC 8), 2=-302(LC 8), 5=-205(LC 8)
Max Grav 4=147(LC 32), 2=474(LC 1), 5=308(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-656/291
BOT CHORD 2-7=-397/471, 6-7=-397/471
WEBS 3-6=-531/448

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 181 lb uplift at joint 4, 302 lb uplift at joint 2 and 205 lb uplift at joint 5.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb down and 77 lb up at 1-6-1, 95 lb down and 77 lb up at 1-6-1, 120 lb down and 72 lb up at 4-4-0, 120 lb down and 72 lb up at 4-4-0, and 158 lb down and 143 lb up at 7-1-15, and 158 lb down and 143 lb up at 7-1-15 on top chord, and 32 lb down and 47 lb up at 1-6-1, 32 lb down and 47 lb up at 1-6-1, 29 lb down and 9 lb up at 4-4-0, 29 lb down and 9 lb up at 4-4-0, and 52 lb down and 25 lb up at 7-1-15, and 52 lb down and 25 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=-4(F=-2, B=-2) 12=-73(F=-36, B=-36) 14=-59(F=-29, B=-29)



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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	HJ10	DIAGONAL HIP GIRDER	2	1	T19891678
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:49 2020 Page 1
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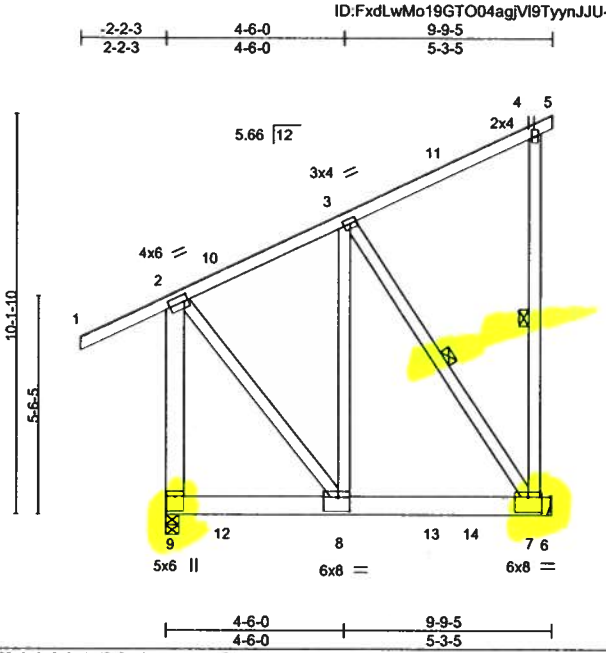


Plate Offsets (X,Y)-- [2:0-1-4,0-2-0], [7:0-4-0,0-4-8], [8:0-3-8,0-4-4], [9:0-4-8,0-2-8]

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	0.79	Vert(LL)	0.09	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	0.09	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 100 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
2-9: 2x6 SP No.2

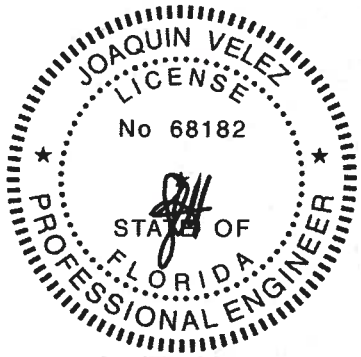
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-7, 3-7

REACTIONS. (size) 9=0-3-14, 6=Mechanical
Max Horz 9=332(LC 5)
Max Uplift 9=-2060(LC 4), 6=-1278(LC 8)
Max Grav 9=2286(LC 23), 6=1125(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-1498/1360, 2-3=-1003/822
BOT CHORD 8-9=-332/132, 7-8=-710/643
WEBS 2-8=-799/1044, 3-8=-910/859, 3-7=-1142/1259

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical 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, with BCDL = 10.0psf.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2060 lb uplift at joint 9 and 1278 lb uplift at joint 6.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 359 lb down and 320 lb up at 1-5-5, 359 lb down and 320 lb up at 1-5-5, 124 lb down and 53 lb up at 4-3-4, 124 lb down and 53 lb up at 4-3-4, and 163 lb down and 146 lb up at 7-1-3, and 163 lb down and 146 lb up at 7-1-3 on top chord, and 580 lb down and 557 lb up at 1-5-5, 580 lb down and 557 lb up at 1-5-5, 314 lb down and 314 lb up at 4-3-4, 314 lb down and 314 lb up at 4-3-4, and 237 lb down and 226 lb up at 7-1-3, and 237 lb down and 226 lb up at 7-1-3 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, 4-5=-54, 6-9=-20
Concentrated Loads (lb)
Vert: 10=78(F=39, B=39) 11=-63(F=-31, B=-31) 14=-37(F=-18, B=-18)



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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891679
2268020	HJ10A	Diagonal Hip Girder	4	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:50 2020 Page 1
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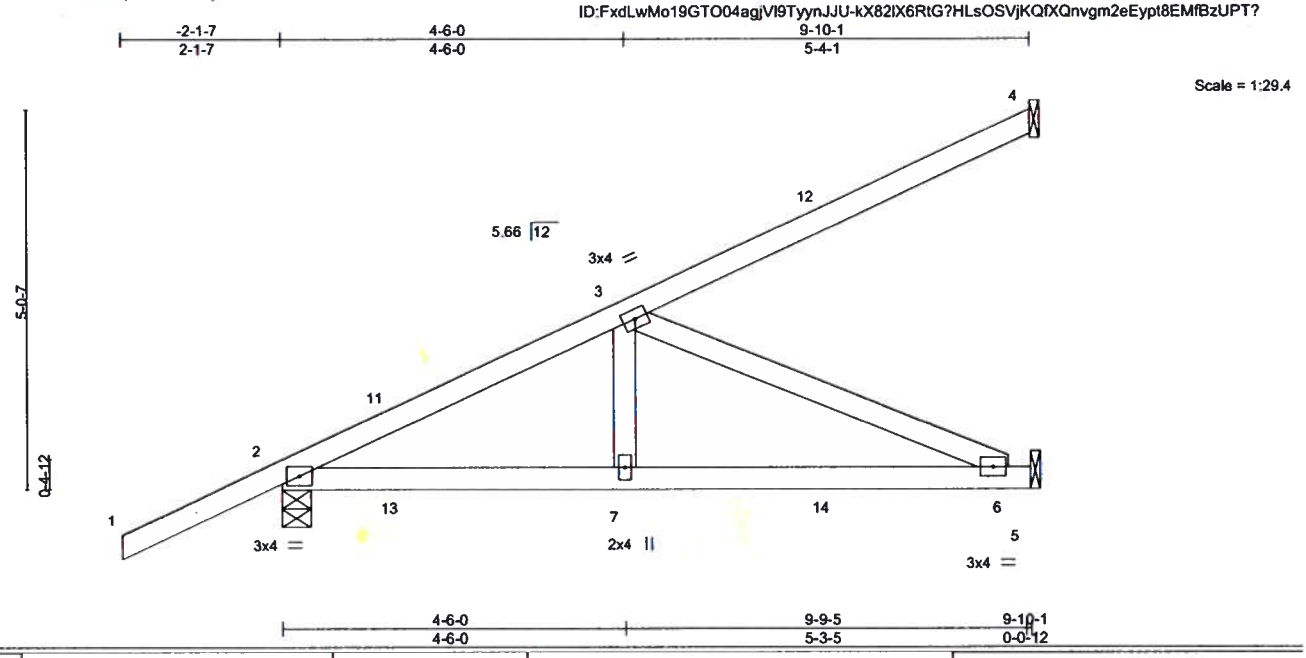

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.11	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 45 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.
BOT CHORD Rigid ceiling directly applied or 8-0-10 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=292(LC 8)
Max Uplift 4=-179(LC 8), 2=-335(LC 8), 5=-217(LC 8)
Max Grav 4=148(LC 1), 2=526(LC 1), 5=327(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-788/383
BOT CHORD 2-7=-514/606, 6-7=-514/606
WEBS 3-7=-20/285, 3-6=-662/561

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 179 lb uplift at joint 4, 335 lb uplift at joint 2 and 217 lb uplift at joint 5.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb down and 77 lb up at 1-6-1, 95 lb down and 77 lb up at 1-6-1, 120 lb down and 72 lb up at 4-4-0, 120 lb down and 72 lb up at 4-4-0, and 158 lb down and 143 lb up at 7-1-15, and 158 lb down and 143 lb up at 7-1-15 on top chord, and 32 lb down and 47 lb up at 1-6-1, 32 lb down and 47 lb up at 1-6-1, 29 lb down and 9 lb up at 4-4-0, 29 lb down and 9 lb up at 4-4-0, and 52 lb down and 25 lb up at 7-1-15, and 52 lb down and 25 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=-4(F=-2, B=-2) 12=-73(F=-36, B=-36) 14=-59(F=-29, B=-29)

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

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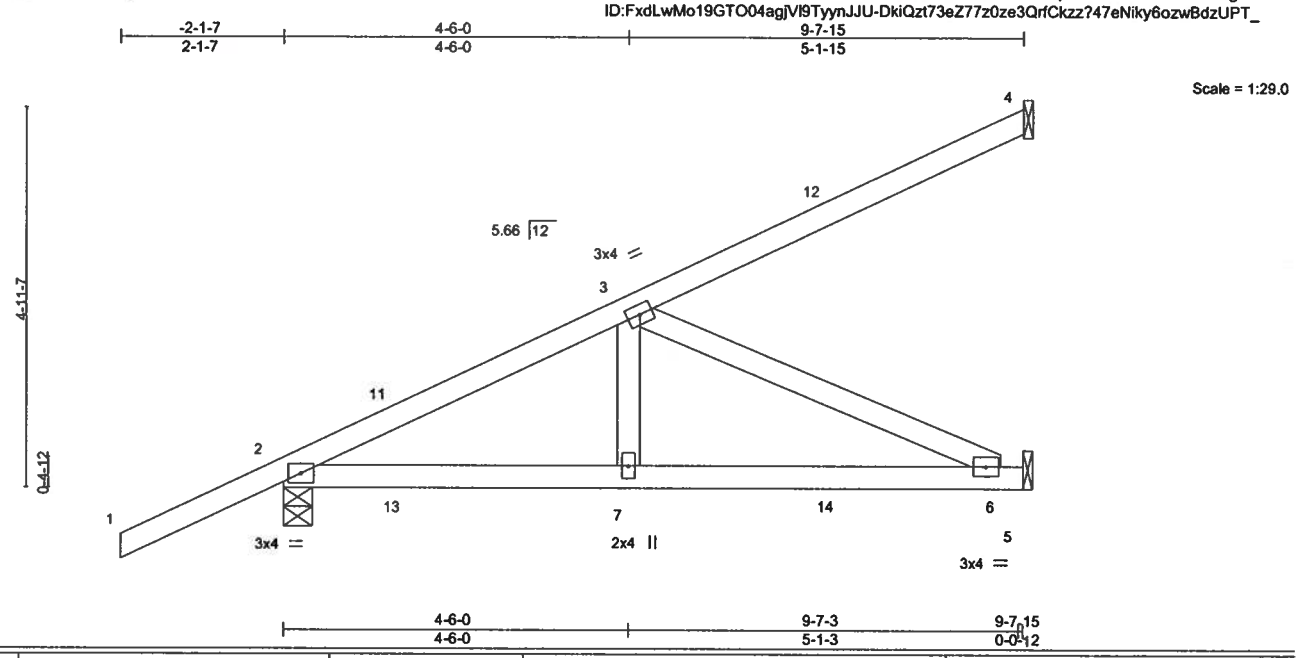
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891680
2268020	HJ10B	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:51 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-DkiQzt73eZ77z0ze3QrfCkzz?47eNiky6ozwBdzUPT_



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	0.64	Vert(LL)	0.06	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.10	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

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

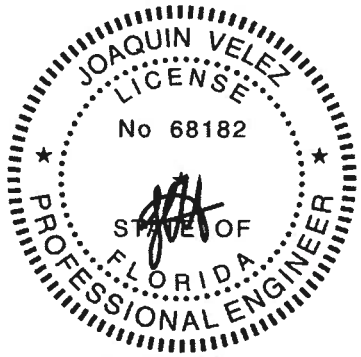
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-9 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=287(LC 8)
Max Uplift 4=-178(LC 8), 2=-330(LC 8), 5=-217(LC 8)
Max Grav 4=145(LC 1), 2=518(LC 1), 5=325(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-763/368
BOT CHORD 2-7=-493/583, 6-7=-493/583
WEBS 3-7=-21/279, 3-6=-640/542

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 178 lb uplift at joint 4, 330 lb uplift at joint 2 and 217 lb uplift at joint 5.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb down and 77 lb up at 1-6-1, 95 lb down and 77 lb up at 1-6-1, 120 lb down and 72 lb up at 4-4-0, 120 lb down and 72 lb up at 4-4-0, and 158 lb down and 143 lb up at 7-1-15, and 158 lb down and 143 lb up at 7-1-15 on top chord, and 32 lb down and 47 lb up at 1-6-1, 32 lb down and 47 lb up at 1-6-1, 29 lb down and 9 lb up at 4-4-0, 29 lb down and 9 lb up at 4-4-0, and 52 lb down and 25 lb up at 7-1-15, and 52 lb down and 25 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=-4(F=-2, B=-2) 12=-73(F=-36, B=-36) 14=-59(F=-29, B=-29)



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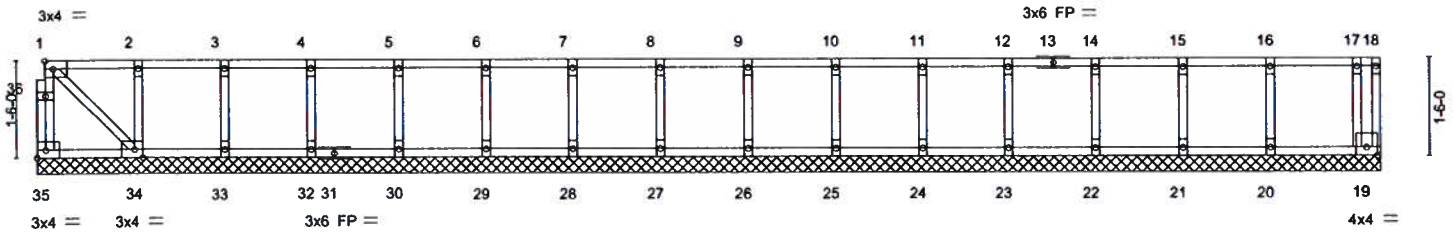
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891681
2268020	KW1	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:53 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-96qBOZ9K9BNrCJ71Aru7H92SrtxnrhKFZ6S0FWzUPSy

0-1-8

Scale = 1:34.1



1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	12-2-12	13-6-12	14-10-12	16-2-12	17-6-12	18-10-12	20-2-12	20-7-0
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-4-4

Plate Offsets (X,Y)-- [34:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	19	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 97 lb	FT = 20%F, 11%E

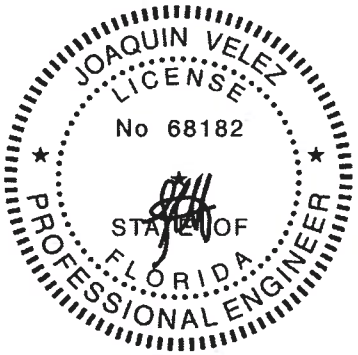
LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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.

REACTIONS. All bearings 20-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 35, 19, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



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6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

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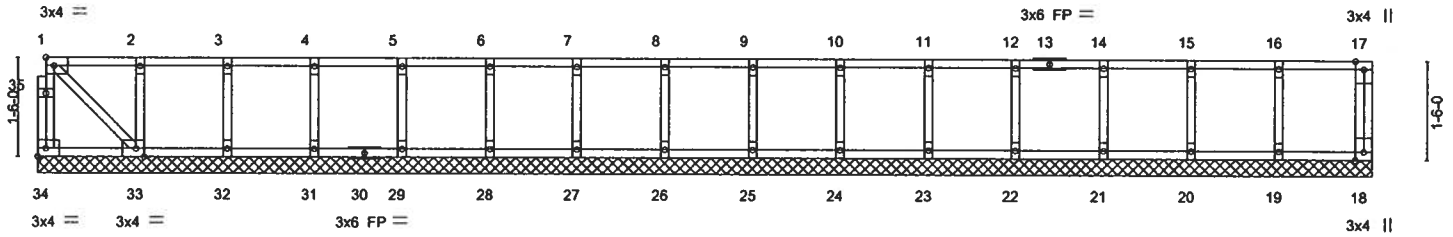
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	
2268020	KW2	GABLE	1	1	Job Reference (optional)	T19891682

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:54 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-dJOZbvAywUViqTiDkZPMqNbdbHH1a8aPomCanyzUPSx

0-1-8

Scale = 1:33.8



1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	12-2-12	13-6-12	14-10-12	16-2-12	17-6-12	18-10-12	20-3-7
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-11

Plate Offsets (X,Y)-- [33:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.00	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	18	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 96 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP M 31(flat)
BOT CHORD	2x4 SP M 31(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

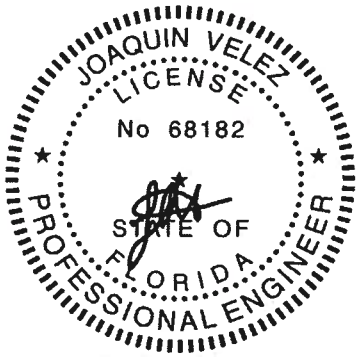
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 20-3-7.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



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Date:
April 3,2020

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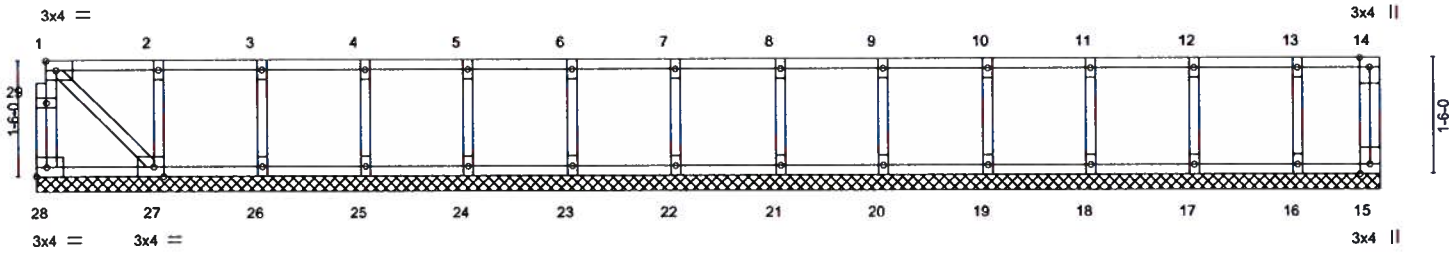
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891683
2268020	KW3	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:55 2020 Page 1
ID:FxdLwMo19GTO04agJVl9TyynJJU-5VxxoFAahodZRdHPlGwbMa7nPhd9JbqY1Qx7JPzUPSw

0-1-8

Scale = 1:28.7



1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	12-2-12	13-6-12	14-10-12	16-2-12	17-3-8
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-12

Plate Offsets (X,Y)-- [27:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	15	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							Weight: 83 lb	FT = 20%F, 11%E

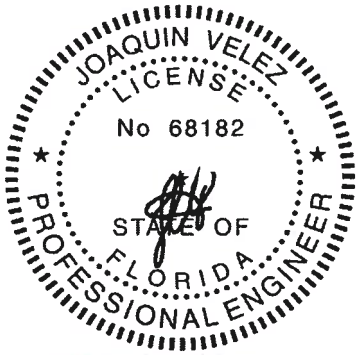
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	KW12	GABLE	1	1	T19891684
					Job Reference (optional)

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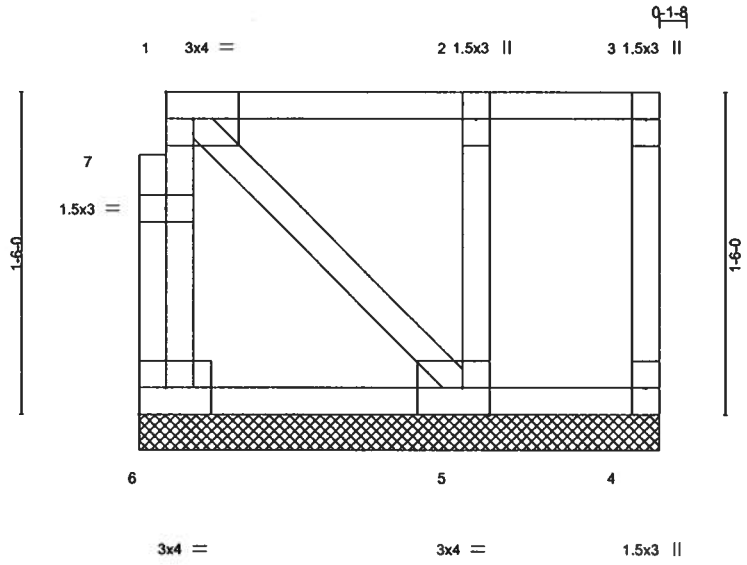


Plate Offsets (X,Y)-- [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-P							Weight: 17 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

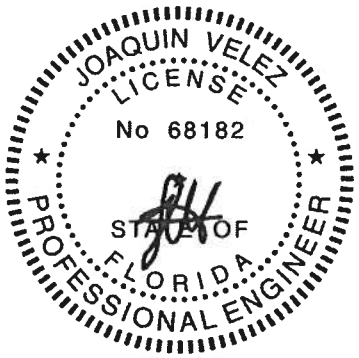
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-5-0, 6=2-5-0, 5=2-5-0
Max Grav 4=19(LC 1), 6=60(LC 1), 5=160(LC 1)

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

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.

NOTES-
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



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April 3,2020

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

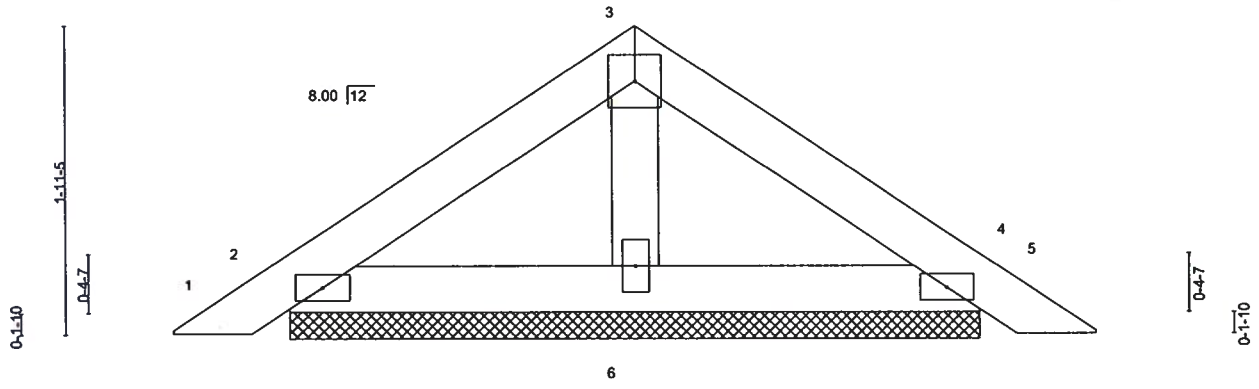
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891685
2268020	PB01	Piggyback	6	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:56 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-ZhVJ0aBCS6lQ3nsbr_RqvogyM5yq22MhF4hhrrzUPSv

2-11-0 / 2-11-0 — 5-10-0 / 2-11-0

4x4 =

Scale = 1:14.0



5-10-0 / 5-10-0

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	0.08	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 18 lb	FT = 20%

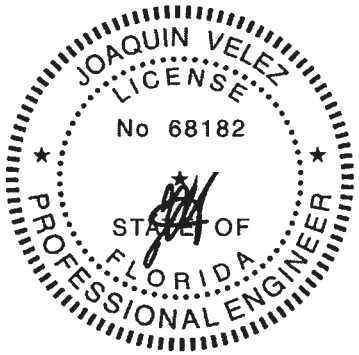
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 2=4-3-12, 4=4-3-12, 6=4-3-12
Max Horz 2=-48(LC 10)
Max Uplift 2=-42(LC 12), 4=-47(LC 13), 6=-14(LC 12)
Max Grav 2=114(LC 1), 4=114(LC 1), 6=143(LC 1)

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

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=28ft; Cat. II; Exp C; Encl., 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
3) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2, 47 lb uplift at joint 4 and 14 lb uplift at joint 6.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Joaquin Velez PE No.68182
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Date:
April 3,2020

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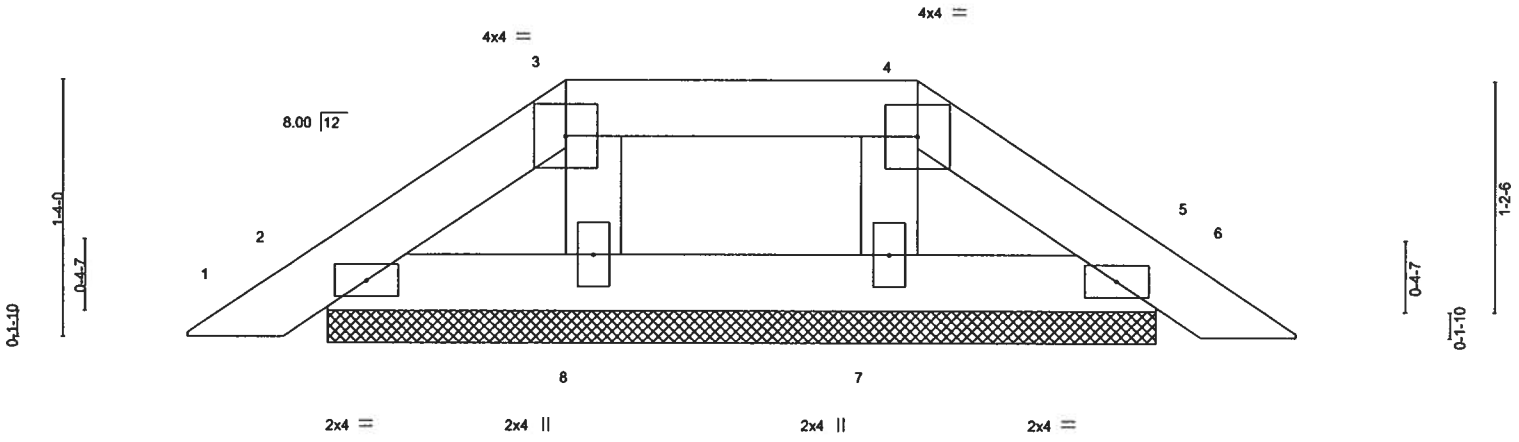
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891686
2268020	PB02	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:57 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-1t3iDwCqDPtHhxRoPhy3S?D7WUlXnVVrUkQEOHzUPSu

5-10-0
5-10-0

Scale = 1:11.6



5-10-0
5-10-0

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	0.06	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 18 lb	FT = 20%

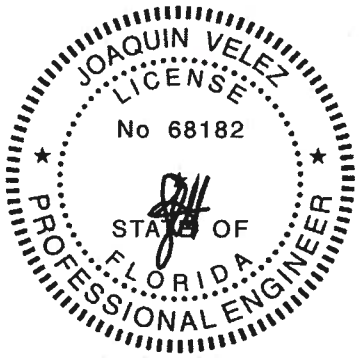
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. All bearings 4-3-12.
(lb) - Max Horz 2=-32(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

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=28ft; Cat. II; Exp C; Encl., 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
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 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) 2, 5, 8, 7.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:
April 3,2020

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MiTek
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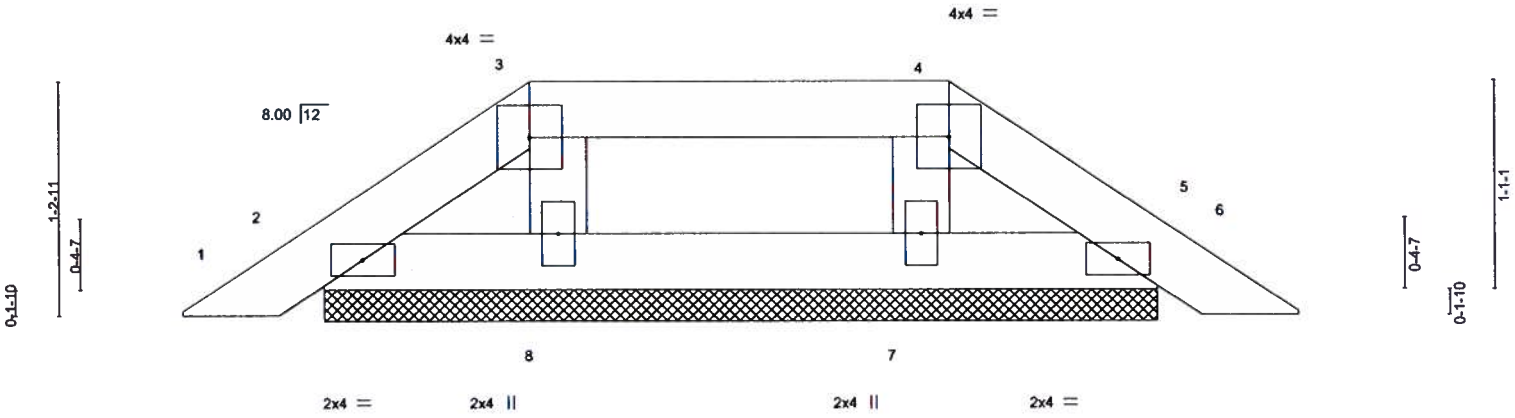
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891687
2268020	PB03	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:58 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-V4d4RGDS_j?8I5?_zOTI_DlHxueiWyj_jOAnwjzUPSt

5-10-0
5-10-0

Scale = 1:11.6



5-10-0
5-10-0

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	0.08	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 18 lb	FT = 20%

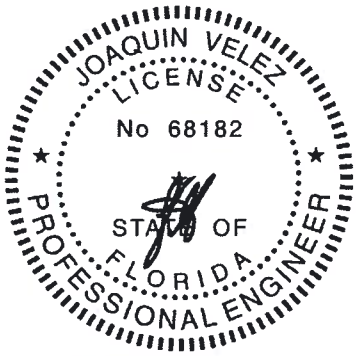
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 4-3-12.
(lb) - Max Horz 2=-29(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

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=28ft; Cat. II; Exp C; Encl., 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
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 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) 2, 5, 8, 7.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891688
2268020	PB04	Piggyback	10	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:53:59 2020 Page 1
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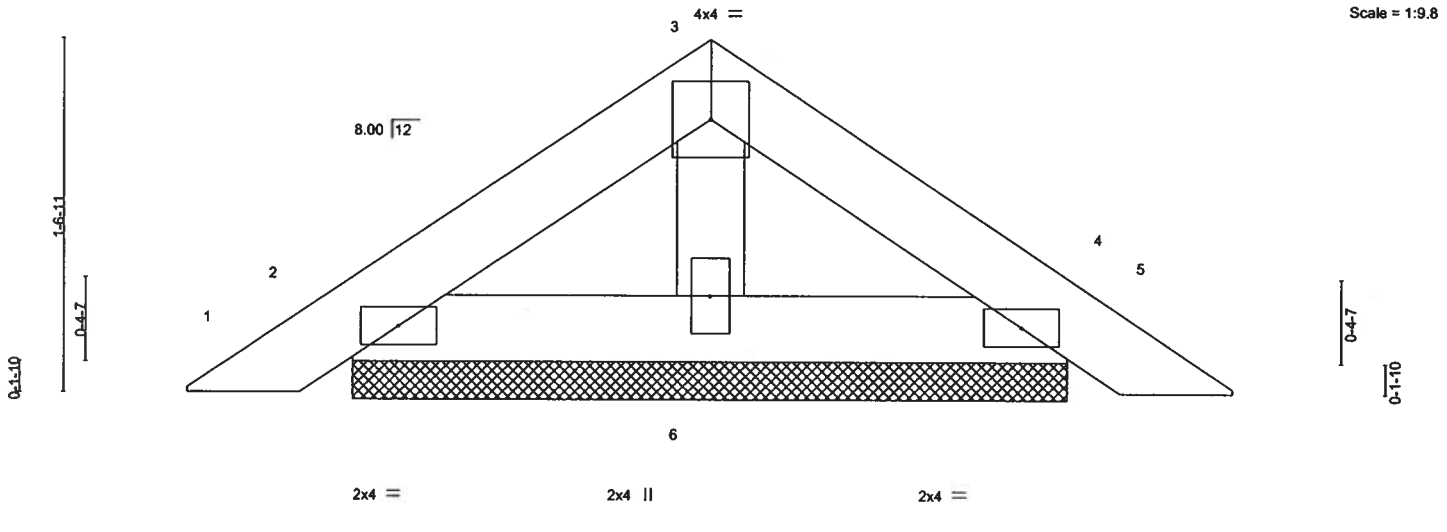


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 14 lb	FT = 20%

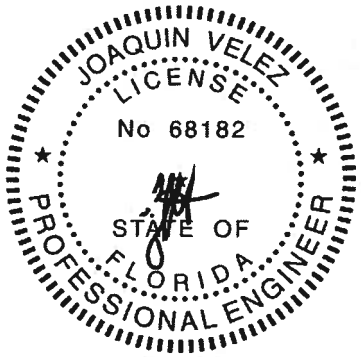
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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=3-1-12, 4=3-1-12, 6=3-1-12
Max Horz 2=37(LC 11)
Max Uplift 2=-34(LC 12), 4=-38(LC 13), 6=-8(LC 12)
Max Grav 2=92(LC 1), 4=92(LC 1), 6=102(LC 1)

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

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=28ft; Cat. II; Exp C; Encl., 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
3) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:
April 3,2020

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MiTek
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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891689
2268020	PB05	PIGGYBACK	2	2	Job Reference (optional)	

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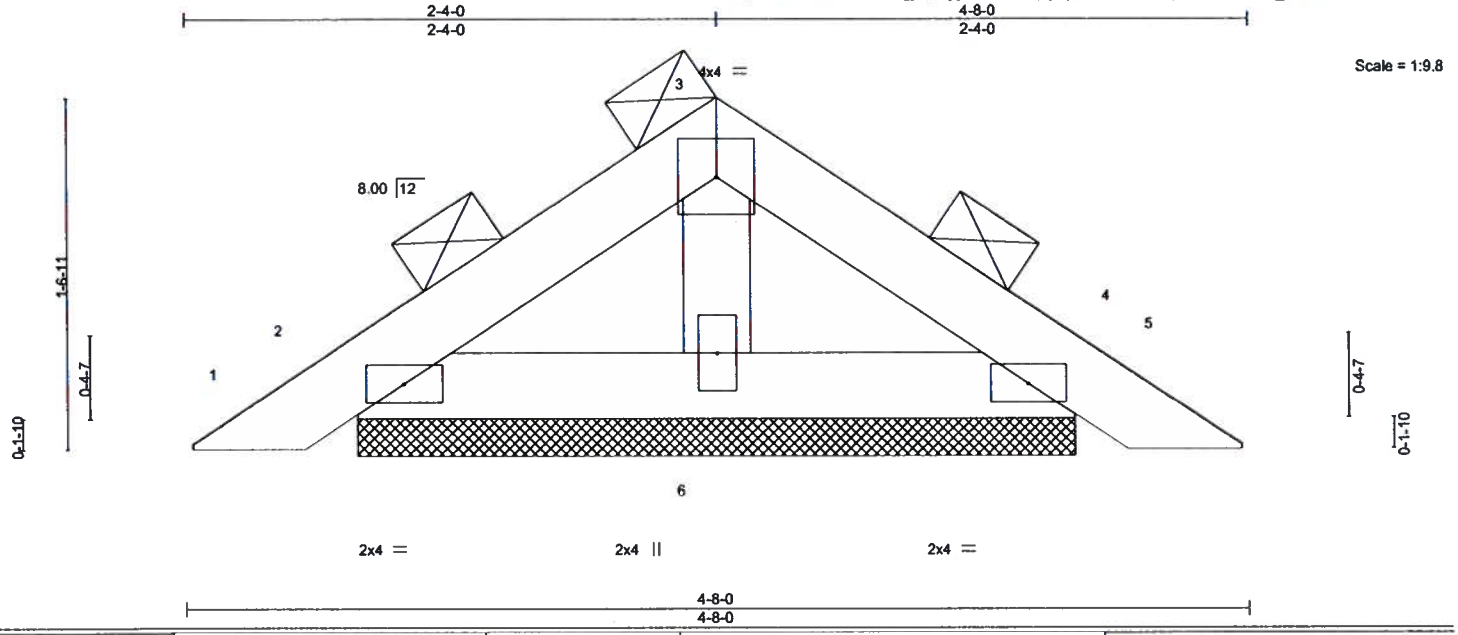


LOADING (psf)		SPACING-	6-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 28 lb	FT = 20%

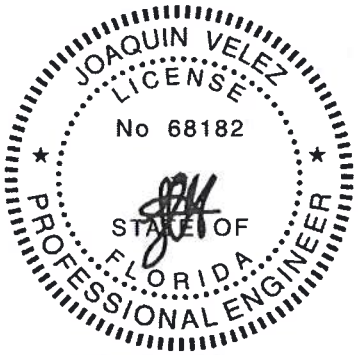
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-1-12, 4=3-1-12, 6=3-1-12
Max Horz 2=-112(LC 10)
Max Uplift 2=-103(LC 12), 4=-114(LC 13), 6=-25(LC 12)
Max Grav 2=275(LC 1), 4=275(LC 1), 6=305(LC 1)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., 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
5) Gable requires continuous bottom chord bearing.
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) 6 except (jt=lb) 2=103, 4=114.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
10) 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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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891690
2268020	PB06	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:00 2020 Page 1
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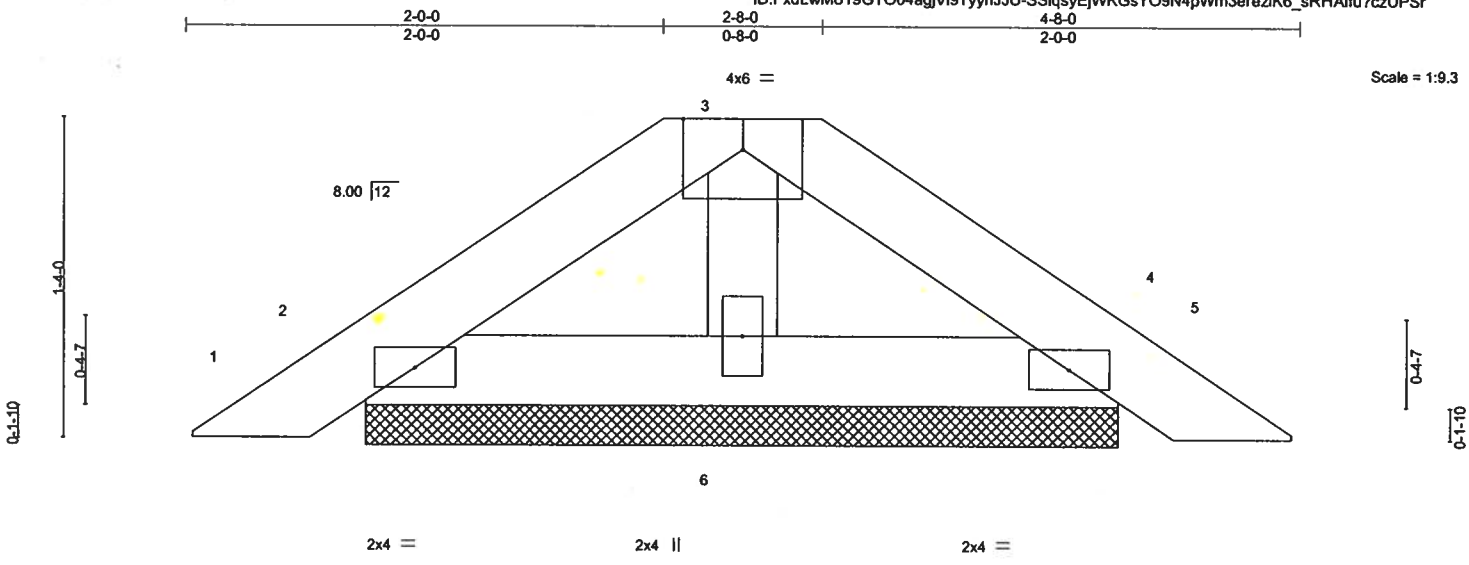


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 14 lb	FT = 20%

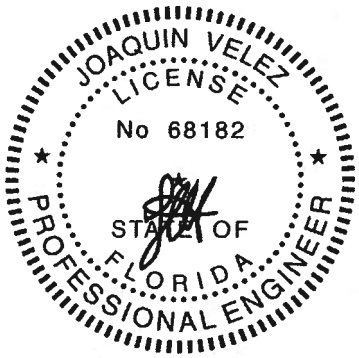
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=3-1-12, 4=3-1-12, 6=3-1-12
Max Horz 2=-37(LC 10)
Max Uplift 2=-34(LC 12), 4=-38(LC 13), 6=-8(LC 12)
Max Grav 2=92(LC 1), 4=92(LC 1), 6=102(LC 1)

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

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=28ft; Cat. II; Exp C; Encl., 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
3) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Joaquin Velez PE No.68182
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Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	T01	HIP GIRDER	1	1	T19891691
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:02 2020 Page 1
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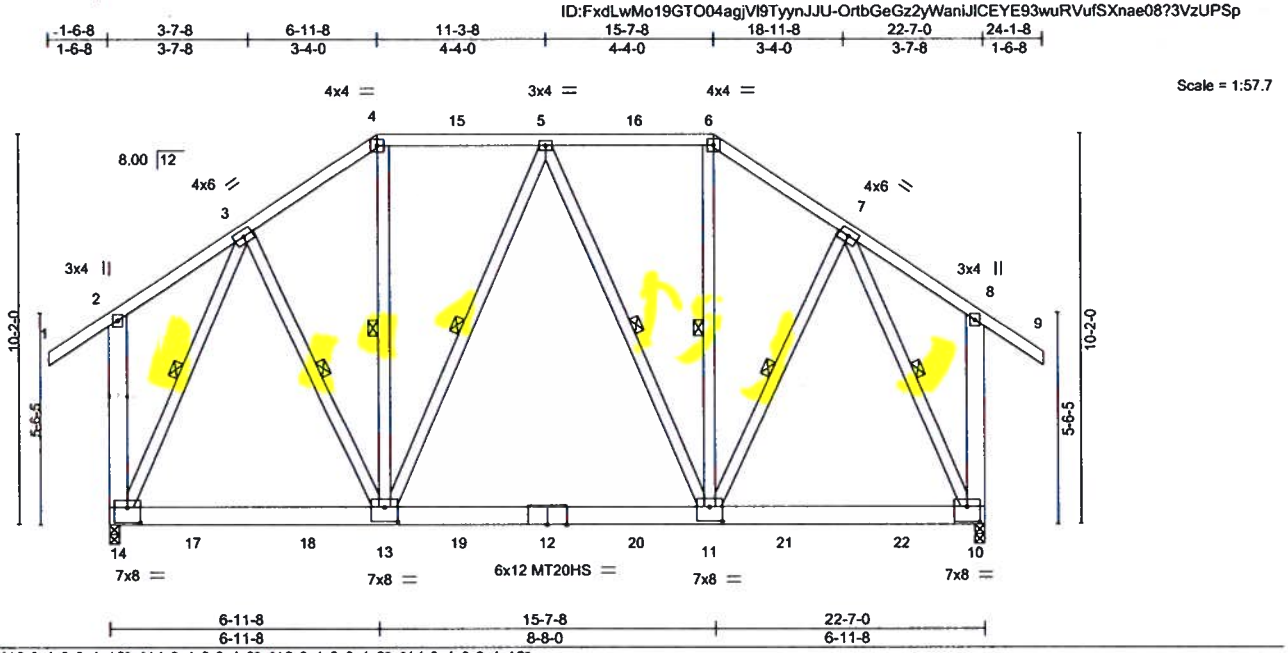

Plate Offsets (X,Y)– [10:0-4-0,0-4-12], [11:0-4-0,0-4-8], [13:0-4-0,0-4-8], [14:0-4-0,0-4-12]

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	0.43	Vert(LL)	0.30	11-13	>883	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.31	11-13	>847	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	-0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 225 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
2-14,8-10: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-0 oc bracing.
WEBS 1 Row at midpt 3-13, 4-13, 5-13, 5-11, 6-11, 7-11, 3-14, 7-10

REACTIONS. (size) 14=0-3-0 (req. 0-3-5), 10=0-3-0 (req. 0-3-5)
Max Horz 14=-365(LC 6)
Max Uplift 14=-2256(LC 8), 10=-2256(LC 9)
Max Grav 14=2788(LC 33), 10=2788(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-2214/1958, 4-5=-1832/1675, 5-6=-1832/1675, 6-7=-2214/1958, 2-14=-276/148, 8-10=-276/148
BOT CHORD 13-14=-1188/1333, 11-13=-1706/1947, 10-11=-1021/1202
WEBS 3-13=-1360/1492, 4-13=-957/994, 6-11=-957/994, 7-11=-1360/1492, 3-14=-2891/2406, 7-10=-2891/2406

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=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); end vertical left and right 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) WARNING: Required bearing size at joint(s) 14, 10 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=2256, 10=2256.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 70 lb up at 6-11-8, 85 lb down and 66 lb up at 9-0-4, 85 lb down and 66 lb up at 11-0-4, 85 lb down and 66 lb up at 11-6-12, and 85 lb down and 66 lb up at 13-6-12, and 80 lb down and 70 lb up at 15-7-8 on top chord, and 1378 lb down and 1529 lb up at 6-11-8, 261 lb down and 222 lb up at 9-0-4, 261 lb down and 222 lb up at 11-0-4, 261 lb down and 222 lb up at 11-6-12, and 261 lb down and 222 lb up at 13-6-12, and 1378 lb down and 1529 lb up at 15-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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

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April 3,2020

Continued on page 2

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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, 4-6=-54, 6-8=-54, 8-9=-54, 10-14=-20
   Concentrated Loads (lb)
   Vert: 4=-23(B) 6=-23(B) 12=-274(B) 13=-509(B) 5=-46(B) 11=-509(B) 15=-23(B) 16=-23(B) 19=-137(B) 20=-137(B)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891692
2268020	T02	ATTIC	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:03 2020 Page 1
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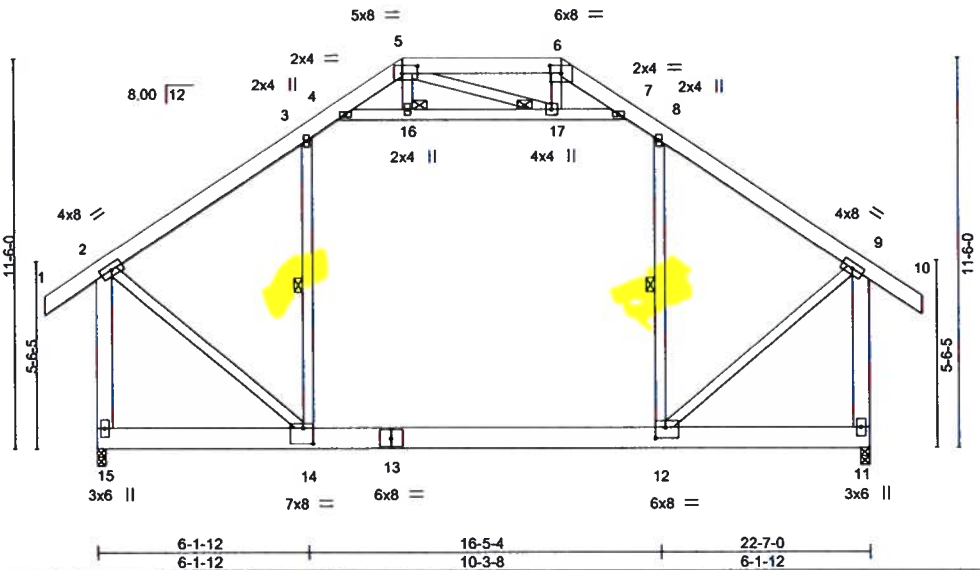


Plate Offsets (X,Y)– [5:0-5-4,0-2-12], [6:0-4-0,0-2-13], [12:0-3-8,0-3-12], [14:0-3-8,0-5-8]

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)	-0.11	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.17	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.09	12-14	1316	360	Weight: 232 lb	FT = 20%

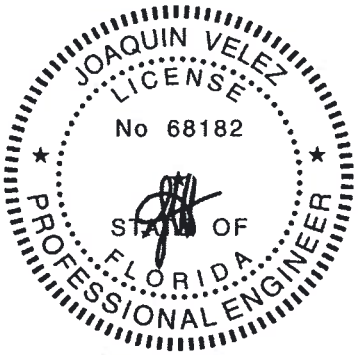
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-15,9-11: 2x6 SP No.2

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.
WEBS 1 Row at midpt 3-14, 8-12
JOINTS 1 Brace at Jt(s): 16, 17

REACTIONS. (size) 15=0-3-0, 11=0-3-0
Max Horz 15=395(LC 11)
Max Uplift 15=-37(LC 12), 11=-37(LC 13)
Max Grav 15=1339(LC 2), 11=1339(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1031/233, 3-4=-786/345, 4-5=-395/204, 5-6=-294/181, 6-7=-385/196, 7-8=-787/346, 8-9=-1030/233, 2-15=-1419/396, 9-11=-1418/396
BOT CHORD 14-15=-383/367, 12-14=-113/860
WEBS 4-16=-701/210, 16-17=-694/211, 7-17=-723/219, 2-14=-53/1113, 9-12=-54/1113

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=28ft; 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
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) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0psf) on member(s).3-14, 8-12
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 11.
9) Attic room checked for L/360 deflection.



Joaquin Velez PE No.68182
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Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891693
2268020	T03	ATTIC	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:04 2020 Page 1
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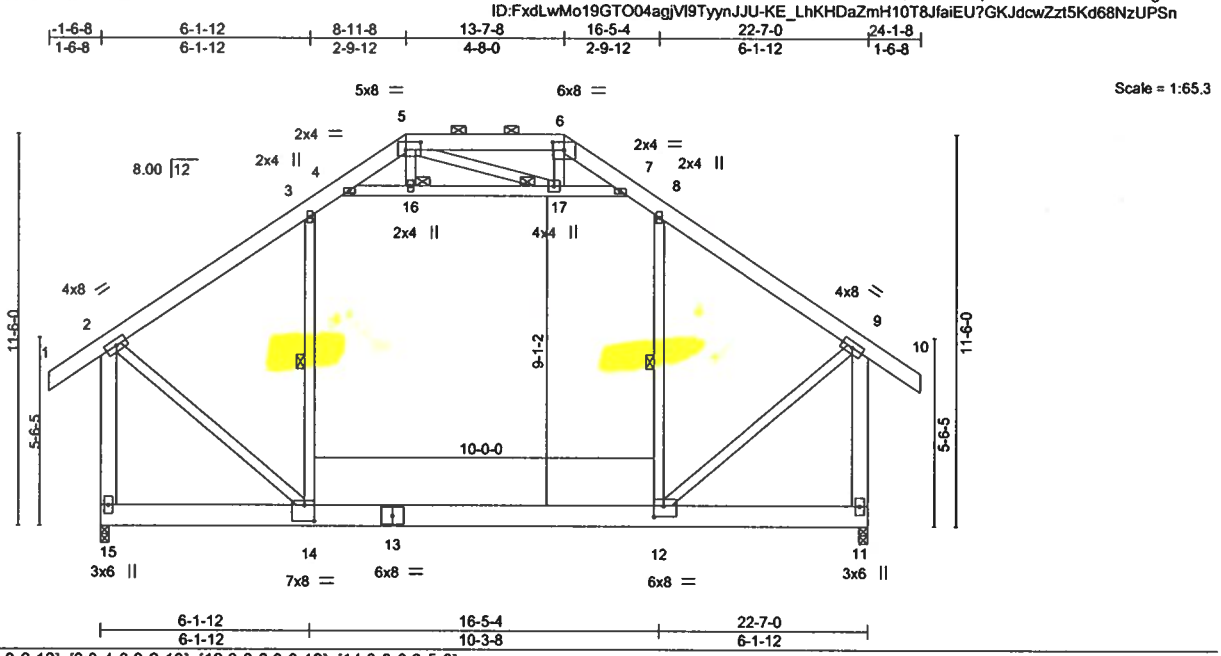


Plate Offsets (X,Y)– [5:0-5-4,0-2-12], [6:0-4-0,0-2-13], [12:0-3-8,0-3-12], [14:0-3-8,0-5-8]

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)	-0.11	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.17	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.09	12-14	1316	360	Weight: 232 lb	FT = 20%

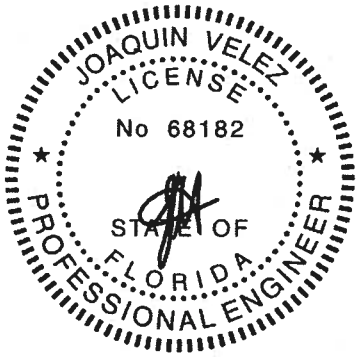
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-15,9-11: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-14, 8-12
JOINTS 1 Brace at Jt(s): 16, 17

REACTIONS. (size) 15=0-3-0, 11=0-3-0
Max Horz 15=-395(LC 10)
Max Uplift 15=-37(LC 12), 11=-37(LC 13)
Max Grav 15=1339(LC 2), 11=1339(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1031/233, 3-4=-786/345, 4-5=-395/204, 5-6=-294/181, 6-7=-385/196, 7-8=-787/346, 8-9=-1030/233, 2-15=-1419/396, 9-11=-1418/396
BOT CHORD 14-15=-383/367, 12-14=-113/860
WEBS 4-16=-701/210, 16-17=-694/211, 7-17=-723/219, 2-14=-53/1113, 9-12=-54/1113

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=28ft; 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
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) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0psf) on member(s).3-14, 8-12
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 11.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.



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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891694
2268020	T04	ATTIC	8	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:05 2020 Page 1
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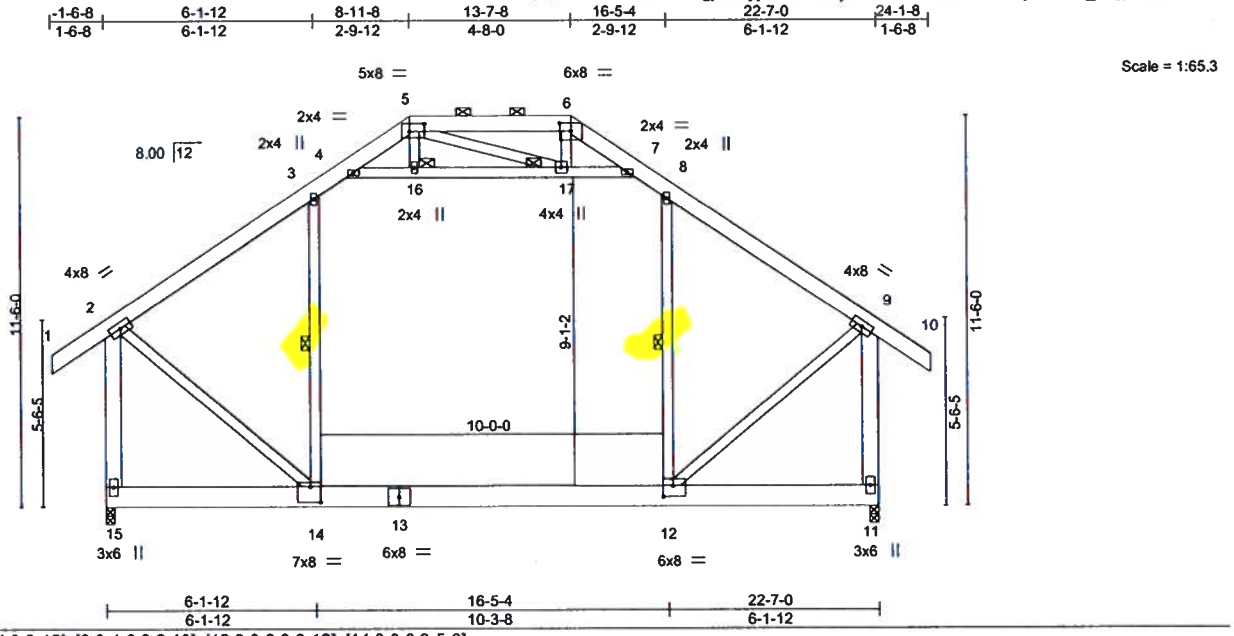


Plate Offsets (X,Y)— [5:0-5-4,0-2-12], [6:0-4-0,0-2-13], [12:0-3-8,0-3-12], [14:0-3-8,0-5-8]

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)	-0.11	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.17	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.09	12-14	1316	360	Weight: 232 lb	FT = 20%

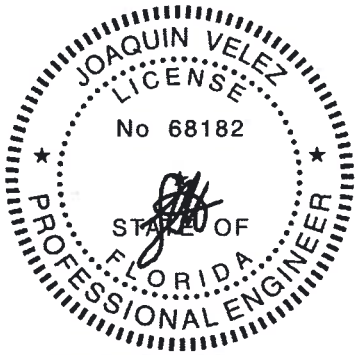
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-15,9-11: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-14, 8-12
JOINTS 1 Brace at Jt(s): 16, 17

REACTIONS. (size) 15=0-3-0, 11=0-3-0
Max Horz 15=-395(LC 10)
Max Uplift 15=-37(LC 12), 11=-37(LC 13)
Max Grav 15=1339(LC 2), 11=1339(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1031/233, 3-4=-786/345, 4-5=-395/204, 5-6=-294/181, 6-7=-385/196, 7-8=-787/346, 8-9=-1030/233, 2-15=-1419/396, 9-11=-1418/396
BOT CHORD 14-15=-383/367, 12-14=-113/860
WEBS 4-16=-701/210, 16-17=-694/211, 7-17=-723/219, 2-14=-53/1113, 9-12=-54/1113

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=28ft; 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
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) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0psf) on member(s).3-14, 8-12
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 11.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

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MiTek
6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891695
2268020	T05	ATTIC	2	2	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:07 2020 Page 1
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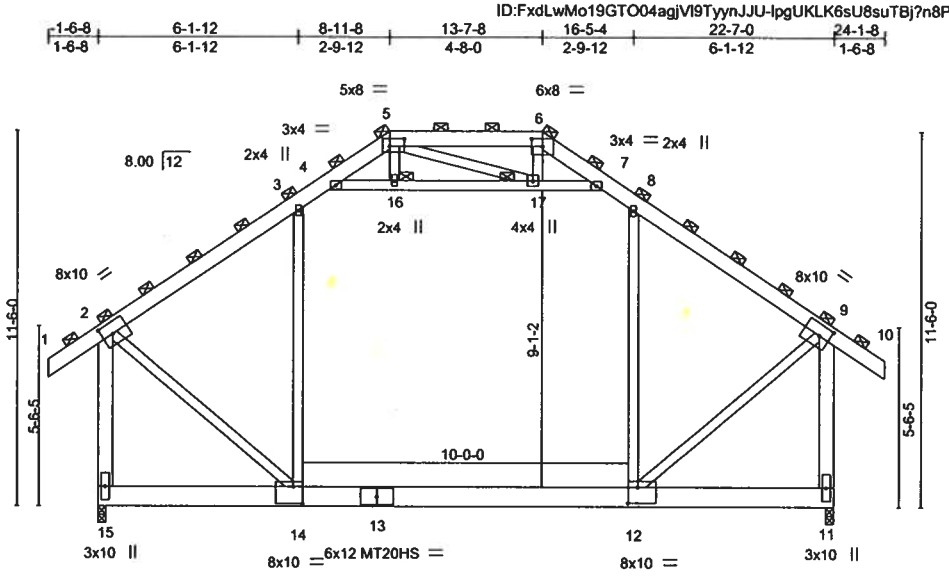


Scale = 1:68.1

Plate Offsets (X,Y)– [2:0-3-15,0-4-0], [5:0-5-4,0-2-12], [6:0-4-0,0-2-13], [9:0-3-15,0-4-0], [12:0-3-8,0-5-12], [14:0-3-8,0-6-4]

LOADING (psf)		SPACING- 8-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.22	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.34	12-14	>776	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.19	12-14	658	360	Weight: 463 lb	FT = 20%

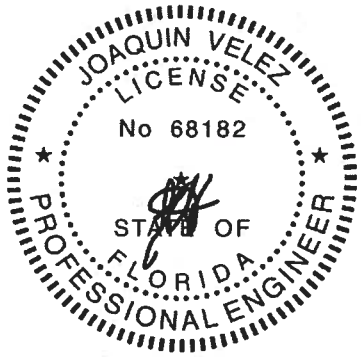
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-15,9-11: 2x6 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 5, 6, 2, 9, 16, 17

REACTIONS. (size) 15=0-3-0 (req. 0-3-3), 11=0-3-0 (req. 0-3-3)
Max Horz 15=-1581(LC 10)
Max Uplift 15=-146(LC 12), 11=-146(LC 13)
Max Grav 15=5358(LC 2), 11=5358(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4123/934, 3-4=-3145/1381, 4-5=-1580/814, 5-6=-1176/722, 6-7=-1541/782, 7-8=-3148/1382, 8-9=-4120/933, 2-15=-5677/1583, 9-11=-5673/1581
BOT CHORD 14-15=-1531/1462, 12-14=-446/3440, 11-12=-304/450
WEBS 3-14=-785/903, 4-16=-2805/838, 16-17=-2777/844, 7-17=-2892/874, 8-12=-791/893, 2-14=-209/4450, 9-12=-211/4454, 5-16=0/252, 6-17=-64/380, 5-17=-582/501

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; 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
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0psf) on member(s).3-14, 8-12
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
11) WARNING: Required bearing size at joint(s) 15, 11 greater than input bearing size.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=146, 11=146.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.



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April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891696
2268020	T06	ATTIC	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:08 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-D?EsXhKkdoGjVdmvYVfeOKAqVw_bsNqT0ybJH8zUPSj

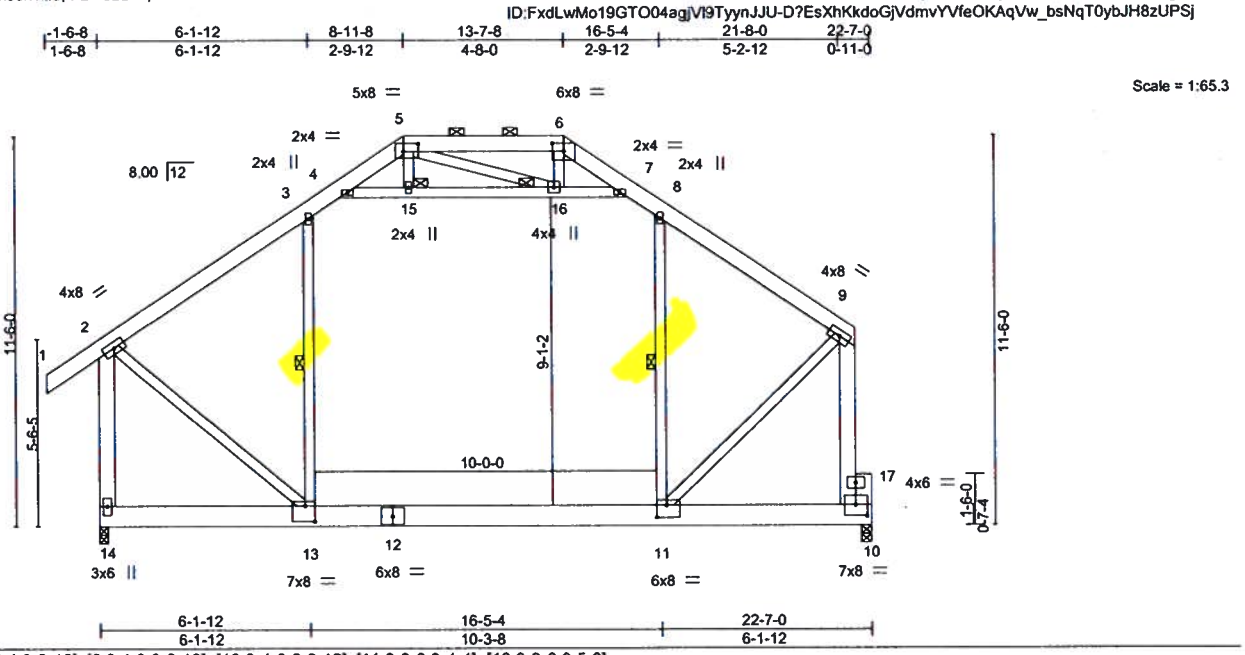

Plate Offsets (X,Y)-- [5:0-5-4,0-2-12], [6:0-4-0,0-2-13], [10:0-4-0,0-3-12], [11:0-3-8,0-4-4], [13:0-3-8,0-5-8]

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)	-0.11	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.18	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.09	11-13	1333	360	Weight: 229 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-14,9-10: 2x6 SP No.2
OTHERS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-13, 8-11
JOINTS 1 Brace at Jt(s): 15, 16

REACTIONS. (size) 14=0-3-0, 10=0-3-8
Max Horz 14=-329(LC 10)
Max Uplift 14=-19(LC 12)
Max Grav 14=1355(LC 2), 10=1230(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1030/234, 3-4=-803/335, 4-5=-393/203, 5-6=-305/173, 6-7=-392/193, 7-8=-801/346, 8-9=-1065/220, 2-14=-1418/334, 9-10=-1370/269
BOT CHORD 13-14=-261/274, 11-13=-88/837
WEBS 4-15=-698/177, 15-16=-691/178, 7-16=-732/219, 8-11=-167/256, 2-13=0/1112, 9-11=-71/1002

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=28ft; 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-15, 15-16, 7-16; Wall dead load (5.0psf) on member(s).3-13, 8-11
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

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April 3,2020

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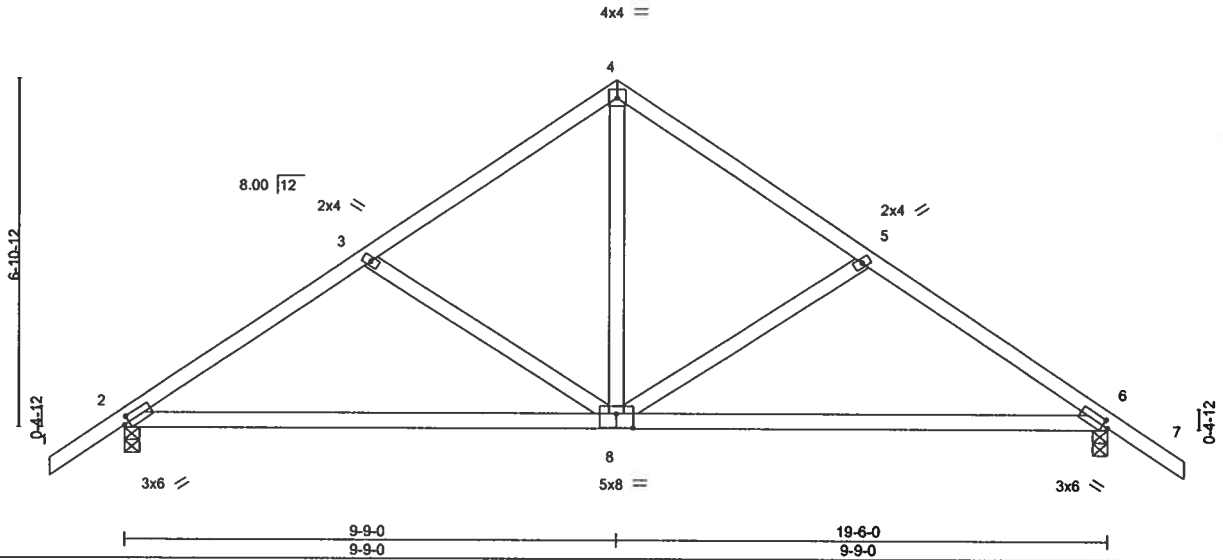
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891697
2268020	T07	Common	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:09 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-hBoEk1LMO5Oa7nL56CAtxXi53KBRbsicFcKtpbzUPSI

-1-6-0	4-10-8	9-9-0	14-7-8	19-6-0	21-0-0
1-6-0	4-10-8	4-10-8	4-10-8	4-10-8	1-6-0

Scale = 1:44.0



9-9-0	19-6-0
9-9-0	9-9-0

Plate Offsets (X,Y)– [2:0-1-5,0-1-8], [6:0-1-5,0-1-8], [8:0-4-0,0-3-4]

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	0.40	Vert(LL)	-0.15	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.30	8-11	>786	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 96 lb	FT = 20%

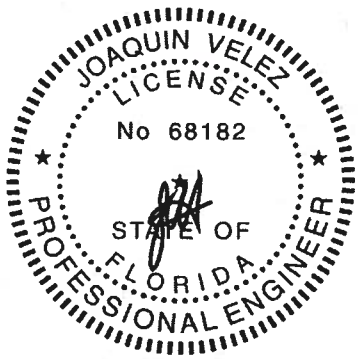
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-256(LC 10)
Max Uplift 2=-356(LC 12), 6=-356(LC 13)
Max Grav 2=803(LC 1), 6=803(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1009/512, 3-4=-820/418, 4-5=-820/418, 5-6=-1009/512
BOT CHORD 2-8=-383/881, 6-8=-294/821
WEBS 4-8=-254/639, 5-8=-397/323, 3-8=-398/322

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=28ft; 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
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=356, 6=356.



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Date:
April 3,2020

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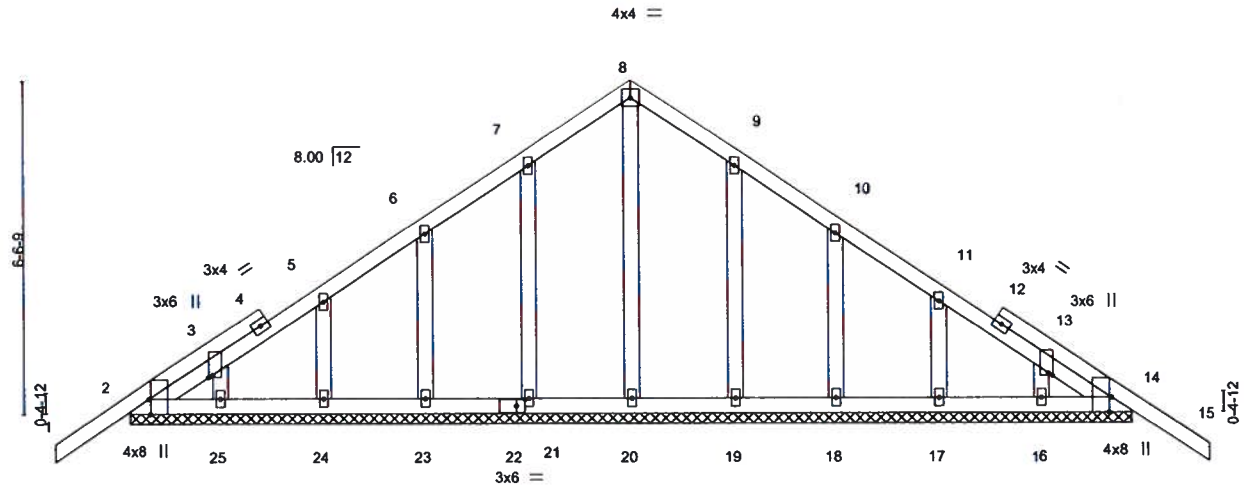
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891698
2268020	T07G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:10 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-9OLcyNM_9PWRlxwlgwh6TlFKRkk7KMNITF4QL1zUPSh

-1-6-0 | 9-9-0 | 19-6-0 | 21-0-0
1-6-0 | 9-9-0 | 9-9-0 | 1-6-0

Scale = 1:43.5



19-6-0
19-6-0

Plate Offsets (X,Y)— [2:0-3-8,Edge], [3:0-0-9,0-1-0], [13:0-0-9,0-1-0], [14:0-3-8,Edge], [22:0-2-0,0-1-8]

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	0.17	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 118 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 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 10-0-0 oc bracing.

REACTIONS. All bearings 19-6-0.
(lb) - Max Horz 2=-244(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 25, 16 except 21=-128(LC 12), 23=-128(LC 12), 24=-118(LC 12), 19=-126(LC 13), 18=-128(LC 13), 17=-122(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

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

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=28ft; 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
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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 25, 16 except (jt=lb) 21=128, 23=128, 24=118, 19=126, 18=128, 17=122.

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April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	T08	Common	3	1	T19891699
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:11 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-dav_9jNcwjeIM5VUEdCL0yoRF8to3mGvivpztTzUPSg

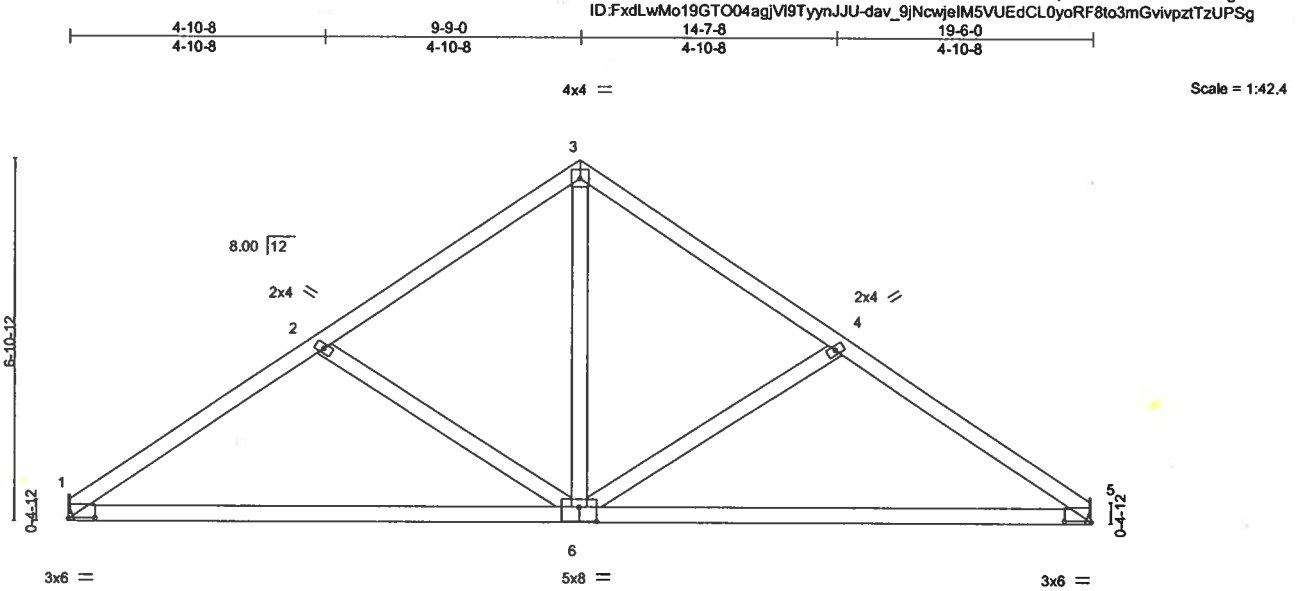


Plate Offsets (X,Y)-- [1:0-6-0,0-0-3], [5:0-6-0,0-0-3], [6:0-4-0,0-3-4]

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	0.42	Vert(LL)	-0.15	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.30	6-12	>775	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 91 lb	FT = 20%

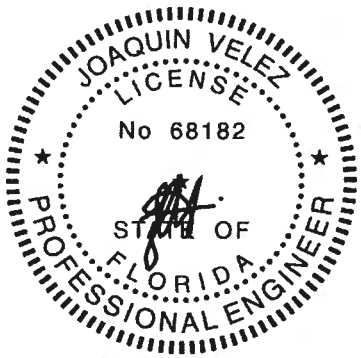
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-9 oc bracing.

REACTIONS. (size) 1=Mechanical, 5=Mechanical
Max Horz 1=178(LC 9)
Max Uplift 1=-174(LC 12), 5=-174(LC 13)
Max Grav 1=722(LC 1), 5=722(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1008/535, 2-3=-823/437, 3-4=-823/437, 4-5=-1008/535
BOT CHORD 1-6=-360/855, 5-6=-360/813
WEBS 3-6=-280/643, 4-6=-390/304, 2-6=-390/304

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=28ft; Cat. II; Exp C; Encl., 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
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.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=174, 5=174.



Joaquin Velez PE No.68182
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Date:
April 3,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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 *ANSI/TPI1 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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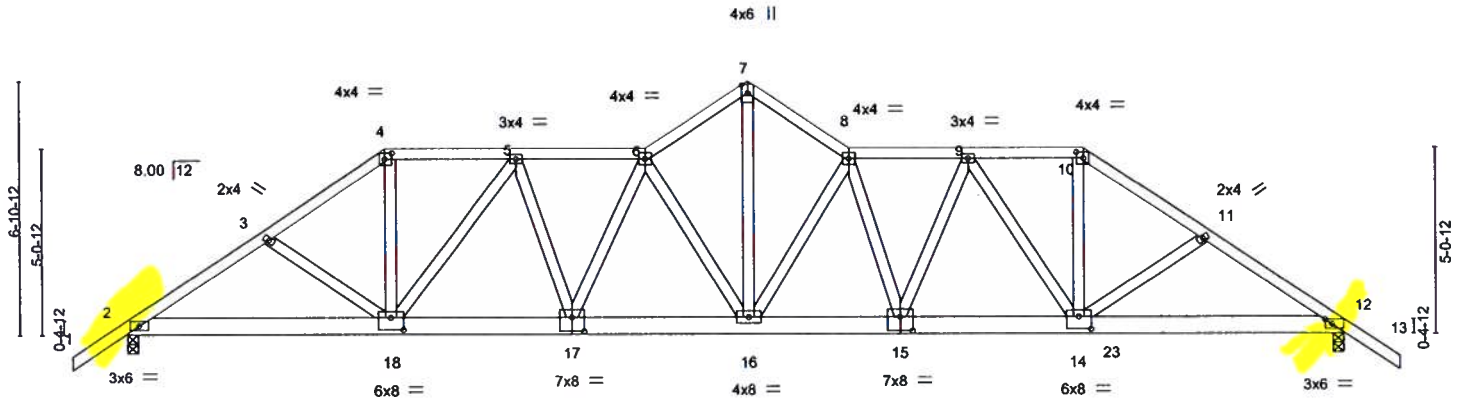
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891700
2268020	T09	Roof Special Girder	1	2	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:13 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-Zy1laOOtSKu0cOftL2Fp5NtpWxbbXYKCADl4yMzUPSe

-1-6-0	3-9-11	7-0-0	10-6-0	14-0-0	16-9-0	19-6-0	22-8-0	25-10-0	29-0-5	32-10-0	34-4-0
1-6-0	3-9-11	3-2-5	3-6-0	3-6-0	2-9-0	2-9-0	3-2-0	3-2-0	3-2-5	3-9-11	1-6-0

Scale = 1:60.3



7-0-0	12-0-0	16-9-0	20-10-0	25-10-0	32-10-0
7-0-0	5-0-0	4-9-0	4-1-0	5-0-0	7-0-0

Plate Offsets (X,Y)-- [4:0-2-4,0-2-0], [10:0-2-4,0-2-0], [12:0-2-5,Edge], [14:0-4-0,0-4-0], [15:0-4-0,0-4-8], [17:0-4-0,0-4-8], [18:0-4-0,0-4-0]

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	0.25	Vert(LL)	-0.16	16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.29	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 459 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 5-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-205(LC 6)
Max Uplift 2=-1138(LC 8), 12=-1150(LC 9)
Max Grav 2=3043(LC 1), 12=3098(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5049/1925, 3-4=-4889/1892, 4-5=-4104/1634, 5-6=-4535/1694, 6-7=-4049/1474, 7-8=-4048/1480, 8-9=-4376/1606, 9-10=-4019/1575, 10-11=-4807/1827, 11-12=-4972/1870
BOT CHORD 2-18=-1612/4158, 17-18=-1598/4449, 16-17=-1597/4621, 15-16=-1480/4492, 14-15=-1415/4288, 12-14=-1477/4129
WEBS 4-18=-956/2523, 5-18=-593/216, 5-17=-122/322, 6-16=-2461/998, 7-16=-1528/4201, 8-16=-2207/883, 8-15=-425/181, 9-15=-199/366, 9-14=-568/281, 10-14=-929/2491, 11-14=-252/165

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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 (jt=lb) 2=1138, 12=1150.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1808 lb down and 840 lb up at 6-11-4, and 1741 lb down and 794 lb up at 26-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Date: April 3,2020

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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 *ANSI/TPI1 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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Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-6=-54, 6-7=-54, 7-8=-54, 8-10=-54, 10-13=-54, 2-12=-20
   Concentrated Loads (lb)
   Vert: 18=-1808(F) 23=-1741(F)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891701
2268020	T10	Monopitch	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:13 2020 Page 1
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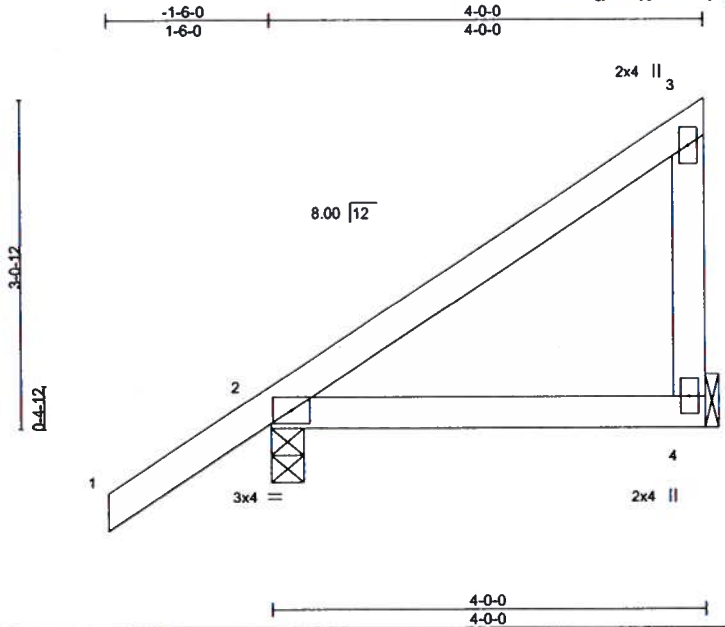

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.03	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 20 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 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=125(LC 12)
Max Uplift 4=-68(LC 12), 2=-51(LC 12)
Max Grav 4=143(LC 19), 2=239(LC 1)

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=28ft; Cat. II; Exp C; Encl., 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 3-6-0 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.

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Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891702
2268020	T11	MONO TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:14 2020 Page 1
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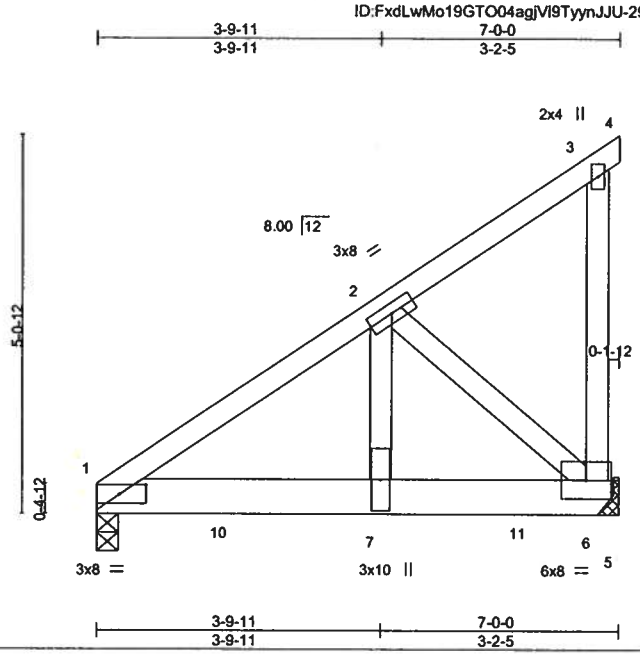


Plate Offsets (X,Y)— [1:0-4-5,0-1-8]

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	0.26	Vert(LL)	-0.03	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.05	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

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

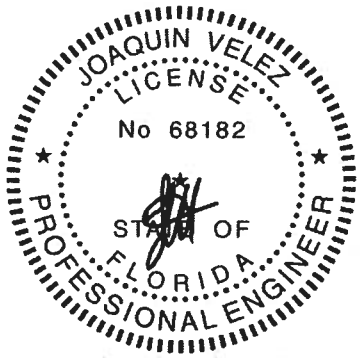
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=Mechanical
Max Horz 1=172(LC 23)
Max Uplift 1=-254(LC 8), 6=-820(LC 8)
Max Grav 1=1174(LC 1), 6=1828(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1361/269
BOT CHORD 1-7=-342/1120, 6-7=-342/1120
WEBS 2-7=-353/1483, 2-6=-1472/449

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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) 1=254, 6=820.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 200 lb up at 7-0-0 on top chord, and 702 lb down and 194 lb up at 1-8-12, 702 lb down and 194 lb up at 3-8-12, and 702 lb down and 194 lb up at 5-8-12, and 300 lb down and 232 lb up at 7-0-0 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: 1-5=-20, 1-3=-54, 3-4=-14
Concentrated Loads (lb)
Vert: 6=-282(B) 3=-109(B) 7=-702(F) 10=-702(F) 11=-702(F)



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April 3,2020

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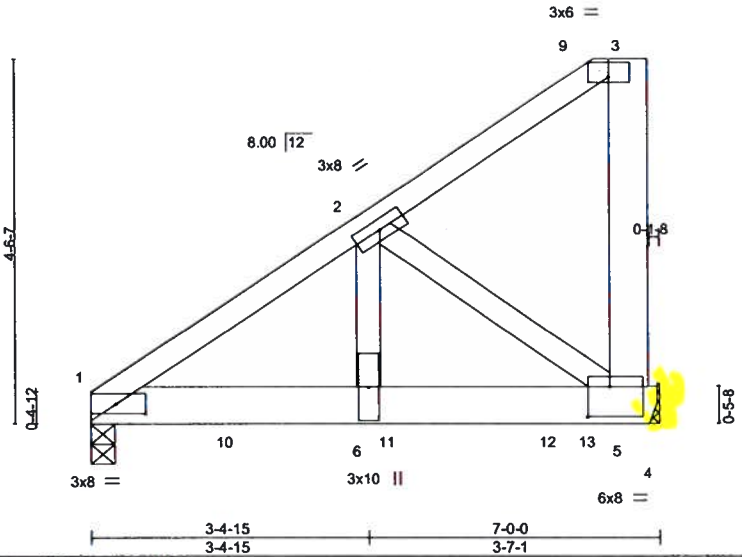
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891703
2268020	T12	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:15 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-WL9V?4Q7_x9kripFTTHHAoy9bIHf?WqUrXnB0EzUPSc

3-4-15 | 6-2-8 | 7-0-0
3-4-15 | 2-9-9 | 0-9-8

Scale = 1:27.6



3-4-15 | 7-0-0
3-4-15 | 3-7-1

Plate Offsets (X,Y)– [1:0-4-5,0-1-8], [3:0-3-0,Edge], [5:0-3-4,0-4-8]

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	0.21	Vert(LL)	-0.02	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.04	6-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.01	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 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-5: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=Mechanical
Max Horz 1=164(LC 23)
Max Uplift 1=-279(LC 8), 5=-774(LC 8)
Max Grav 1=1187(LC 1), 5=1761(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1511/353
BOT CHORD 1-6=-413/1248, 5-6=-413/1248
WEBS 2-6=-352/1431, 2-5=-1471/477

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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) 1=279, 5=774.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 129 lb down and 209 lb up at 6-2-8 on top chord, and 702 lb down and 194 lb up at 1-8-12, 702 lb down and 194 lb up at 3-8-12, and 702 lb down and 194 lb up at 5-8-12, and 286 lb down and 227 lb up at 6-2-8 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: 1-3=-54, 1-4=-20
Concentrated Loads (lb)
Vert: 9=-89(F) 10=-702(B) 11=-702(B) 12=-702(B) 13=-257(F)

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891704
2268020	T13	Common	3	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:16 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-_XjtCQRlFHaTsOR0AoWj0VEa9f5k4desBXkZhzUPSb

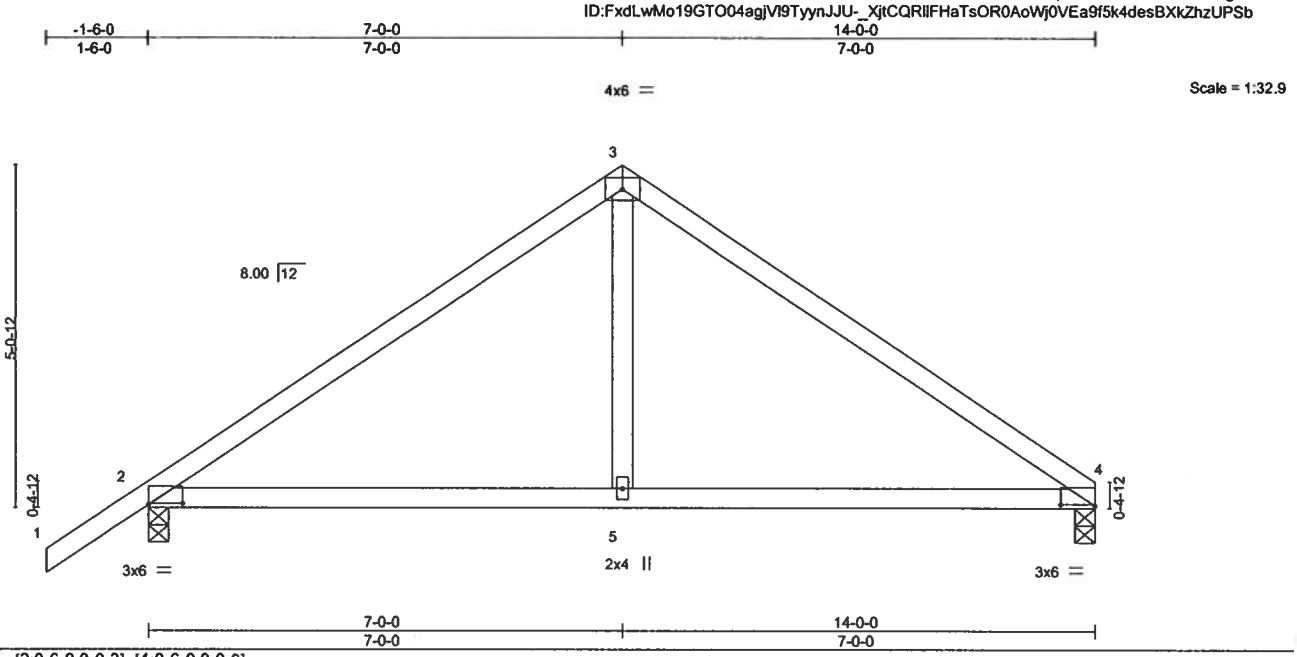


Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [4:0-6-0,0-0-3]

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	0.58	Vert(LL)	0.13	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.15	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 56 lb	FT = 20%

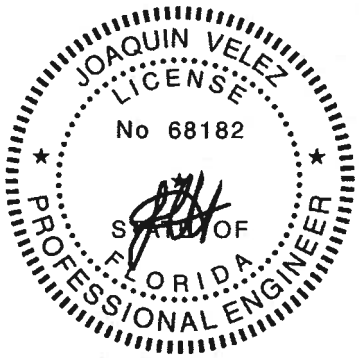
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=0-3-8
Max Horz 2=182(LC 9)
Max Uplift 4=-212(LC 13), 2=-274(LC 12)
Max Grav 4=514(LC 1), 2=603(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-629/313, 3-4=-626/310
BOT CHORD 2-5=-130/448, 4-5=-130/448
WEBS 3-5=-41/326

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=28ft; 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
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=212, 2=274.



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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	
2268020	T13G	Common Supported Gable	1	1	Job Reference (optional)	T19891705

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:17 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-SkHGQmRNWYPR40yeauJlGD2WcY7aTY6n4rGI57zUPSa

-1-6-0 1-6-0 | 7-0-0 7-0-0 | 14-0-0 7-0-0 | 15-6-0 1-6-0

Scale = 1:30.9

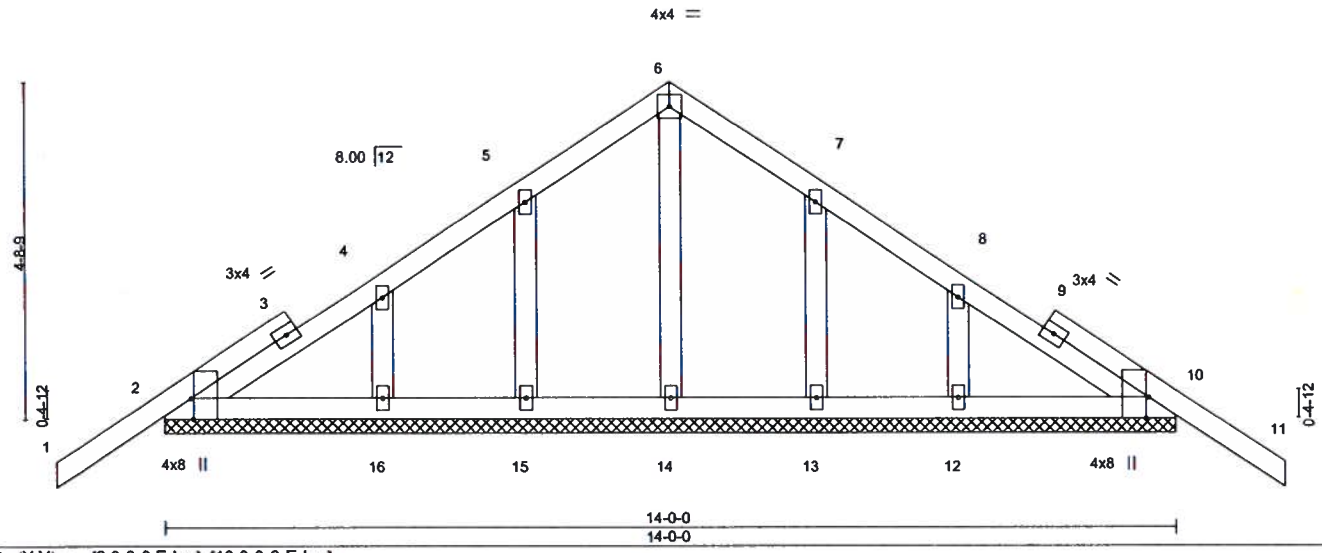


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [10:0-3-8,Edge]

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	0.18	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 75 lb	FT = 20%

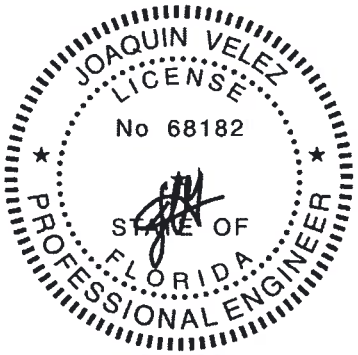
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 14-0-0.
(lb) - Max Horz 2=-182(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 15=-132(LC 12), 16=-130(LC 12), 13=-129(LC 13), 12=-136(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

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=28ft; 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
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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 15=132, 16=130, 13=129, 12=136.



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Date:
April 3,2020

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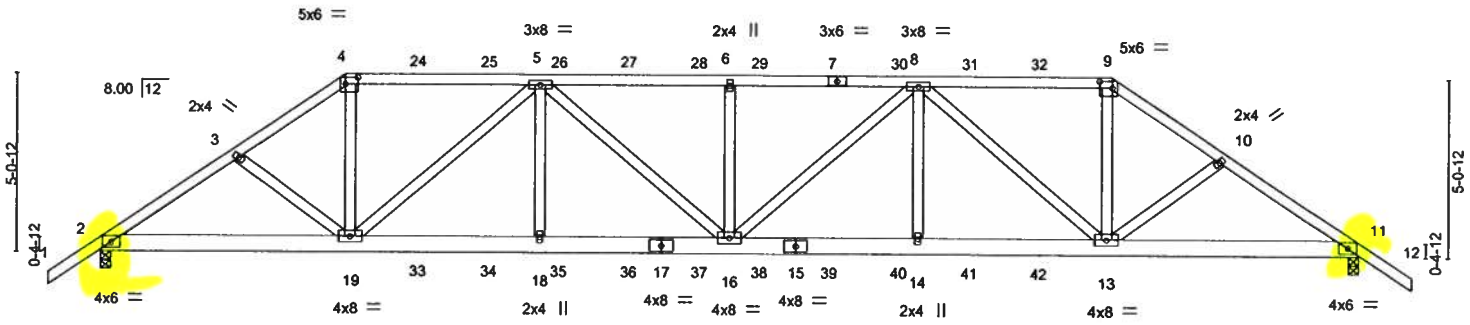
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	T15	Hip Girder	1	2	T19891706

Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:21 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-KVWmG8UuZnvtZdGPpkOhQ3C9fAMwPFIN?TEVEuzUPSW

1-6-0	3-11-4	7-0-0	12-6-6	17-11-0	23-3-10	28-10-0	31-10-12	35-10-0	37-4-0
1-6-0	3-11-4	3-0-12	5-6-6	5-4-10	5-4-10	5-6-6	3-0-12	3-11-4	1-6-0

Scale = 1:63.3



7-0-0	12-6-6	17-11-0	23-3-10	28-10-0	35-10-0
7-0-0	5-6-6	5-4-10	5-4-10	5-6-6	7-0-0

Plate Offsets (X,Y)-- [4:0-4-4,0-2-4], [9:0-4-4,0-2-4]

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	0.37	Vert(LL)	0.22	16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.31	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 461 lb	FT = 20%

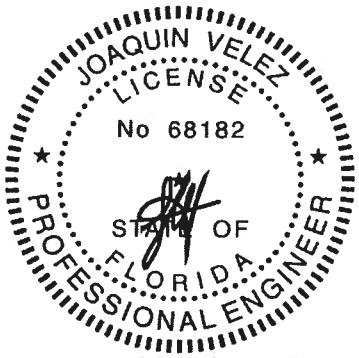
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-6 oc bracing.

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=156(LC 7)
Max Uplift 2=-1271(LC 8), 11=-1360(LC 9)
Max Grav 2=2736(LC 1), 11=2779(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4515/2186, 3-4=-4364/2181, 4-5=-3663/1870, 5-6=-5731/2886, 6-8=-5731/2886, 8-9=-3727/1995, 9-10=-4442/2335, 10-11=-4593/2339
BOT CHORD 2-19=-1879/3709, 18-19=-2634/5225, 16-18=-2634/5225, 14-16=-2654/5258, 13-14=-2654/5258, 11-13=-1877/3774
WEBS 4-19=-1037/2151, 5-19=-2108/1101, 5-18=-191/587, 5-16=-387/704, 6-16=-323/242, 8-16=-293/652, 8-14=-191/587, 8-13=-2059/1010, 9-13=-977/2123

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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 (jt=lb) 2=1271, 11=1360.



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Continued on page 2

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NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 72 lb up at 7-0-0, 77 lb down and 67 lb up at 9-0-12, 77 lb down and 67 lb up at 11-0-12, 77 lb down and 67 lb up at 13-0-12, 77 lb down and 67 lb up at 15-0-12, 77 lb down and 67 lb up at 17-0-12, 77 lb down and 67 lb up at 18-9-4, 77 lb down and 67 lb up at 20-9-4, 77 lb down and 67 lb up at 22-9-4, 77 lb down and 67 lb up at 24-9-4, and 77 lb down and 67 lb up at 26-9-4, and 180 lb down and 267 lb up at 28-10-0 on top chord, and 454 lb down and 333 lb up at 7-0-0, 165 lb down and 88 lb up at 9-0-12, 165 lb down and 88 lb up at 11-0-12, 165 lb down and 88 lb up at 13-0-12, 165 lb down and 88 lb up at 15-0-12, 165 lb down and 88 lb up at 17-0-12, 165 lb down and 88 lb up at 18-9-4, 165 lb down and 88 lb up at 20-9-4, 165 lb down and 88 lb up at 22-9-4, 165 lb down and 88 lb up at 24-9-4, and 165 lb down and 88 lb up at 26-9-4, and 454 lb down and 333 lb up at 28-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-9=-54, 9-12=-54, 2-11=-20
   Concentrated Loads (lb)
   Vert: 4=-18(F) 7=-18(F) 9=-90(F) 19=-427(F) 13=-427(F) 24=-18(F) 25=-18(F) 26=-18(F) 27=-18(F) 28=-18(F) 29=-18(F) 30=-18(F) 31=-18(F) 32=-18(F) 33=-156(F) 34=-156(F) 35=-156(F) 36=-156(F) 37=-156(F) 38=-156(F) 39=-156(F) 40=-156(F) 41=-156(F) 42=-156(F)

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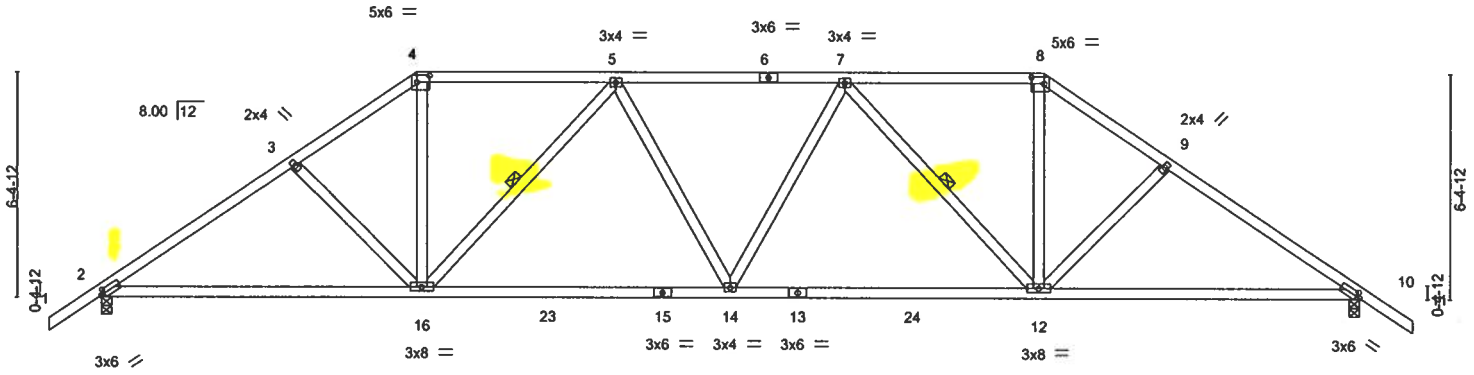
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891707
2268020	T16	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:22 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-ph49TTVWK51kBnrbNRvwyHIJXZcd8kLWE7_3mKzUPSV

-1-6-0	5-6-6	9-0-0	14-8-0	21-2-0	26-10-0	30-3-10	35-10-0	37-4-0
1-6-0	5-6-6	3-5-10	5-8-0	6-6-1	5-8-0	3-5-10	5-6-6	1-6-0

Scale = 1:63.3



9-0-0	17-11-0	26-10-0	35-10-0
9-0-0	8-11-0	8-11-0	9-0-0

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

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	0.42	Vert(LL)	-0.20	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.36	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 193 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 3-8-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-6-6 oc bracing.
WEBS 1 Row at midpt 5-16, 7-12

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-192(LC 10)
Max Uplift 2=-296(LC 12), 10=-296(LC 13)
Max Grav 2=1407(LC 1), 10=1407(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2042/1074, 3-4=-1845/1041, 4-5=-1498/918, 5-7=-1937/1150, 7-8=-1498/918, 8-9=-1845/1041, 9-10=-2042/1074
BOT CHORD 2-16=-732/1641, 14-16=-816/1892, 12-14=-818/1892, 10-12=-743/1641
WEBS 3-16=-350/255, 4-16=-403/791, 5-16=-650/372, 7-12=-650/372, 8-12=-403/791, 9-12=-350/255

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296, 10=296.

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April 3,2020

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891708
2268020	T17	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:24 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-l4Cvu9XmsiHSQ4?_UsxO2iqd8NOccb8phRT9rDzUPST

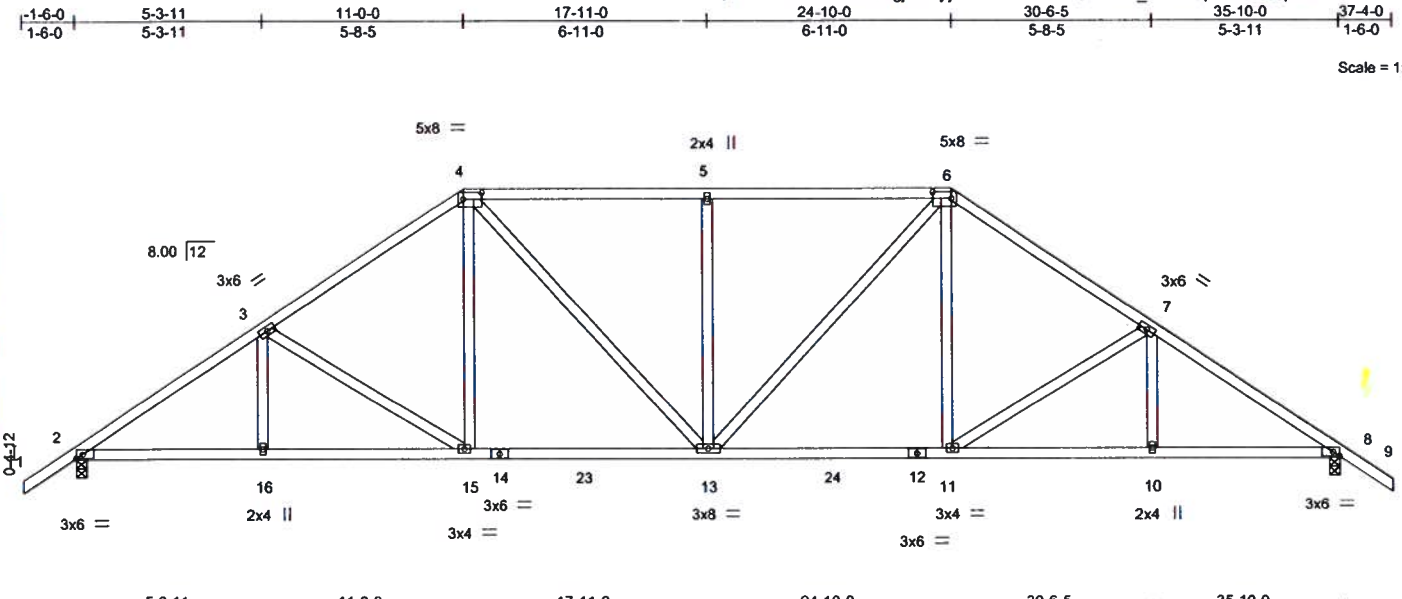


Plate Offsets (X,Y)– [4:0-6-4,0-2-4], [6:0-6-4,0-2-4], [8:0-2-3,Edge]

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	0.54	Vert(LL)	-0.12	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.23	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 209 lb	FT = 20%

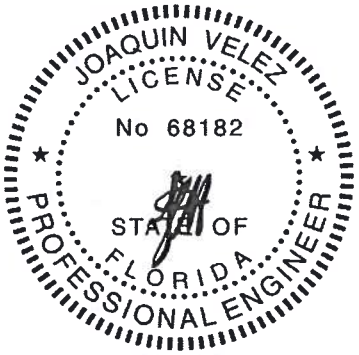
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-6 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-229(LC 10)
Max Uplift 2=-312(LC 12), 8=-312(LC 13)
Max Grav 2=1407(LC 1), 8=1407(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2094/1064, 3-4=-1737/977, 4-5=-1634/1037, 5-6=-1634/1037, 6-7=-1737/977, 7-8=-2094/1064
BOT CHORD 2-16=-732/1686, 15-16=-732/1686, 13-15=-476/1375, 11-13=-479/1375, 10-11=-746/1686, 8-10=-746/1686
WEBS 3-15=-536/317, 4-15=-131/435, 4-13=-223/479, 5-13=-429/356, 6-13=-223/479, 6-11=-131/435, 7-11=-536/317

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=312, 8=312.



Joaquin Velez PE No.68182
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Date:
April 3,2020

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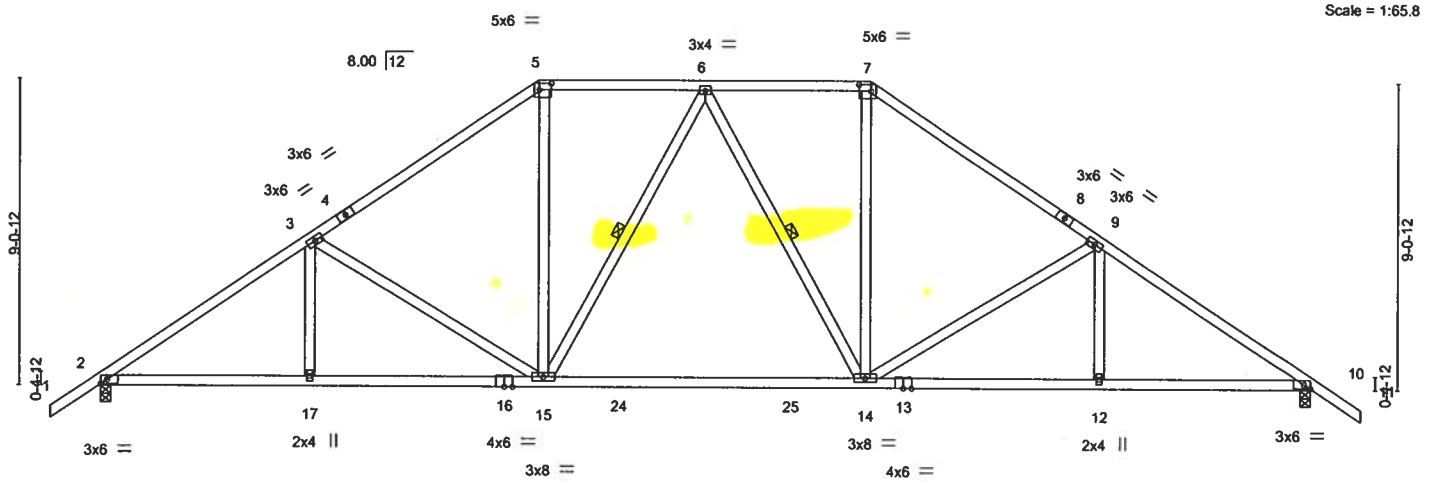
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891709
2268020	T18	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:25 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-DGlH5VYOd0PJ2EaA2ZSdavNnAndxLzOzw5CjNfzUPSS

-1-6-0	6-2-9	13-0-0	17-11-0	22-10-0	29-7-7	35-10-0	37-4-0
1-6-0	6-2-9	6-9-7	4-11-0	4-11-0	6-9-7	6-2-9	1-6-0

Scale = 1:65.8



6-2-9	13-0-0	22-10-0	29-7-7	35-10-0
6-2-9	6-9-7	9-10-0	6-9-7	6-2-9

Plate Offsets (X,Y)-- [5:0-4-4,0-2-4], [7:0-4-4,0-2-4], [10:0-2-3,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	0.59	Vert(LL)	-0.36	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.59	14-15	>733	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 209 lb	FT = 20%

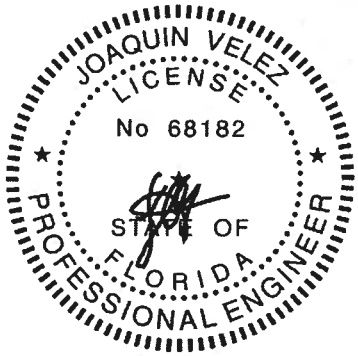
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 6-15, 6-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-265(LC 10)
Max Uplift 2=-326(LC 12), 10=-326(LC 13)
Max Grav 2=1407(LC 1), 10=1407(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2073/1043, 3-5=-1636/923, 5-6=-1310/862, 6-7=-1310/862, 7-9=-1636/923, 9-10=-2073/1042
BOT CHORD 2-17=-704/1689, 15-17=-704/1689, 14-15=-439/1348, 12-14=-715/1662, 10-12=-715/1662
WEBS 3-15=-639/397, 5-15=-260/578, 6-15=-274/204, 6-14=-274/203, 7-14=-260/578, 9-14=-639/397

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326, 10=326.



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Date:
April 3,2020

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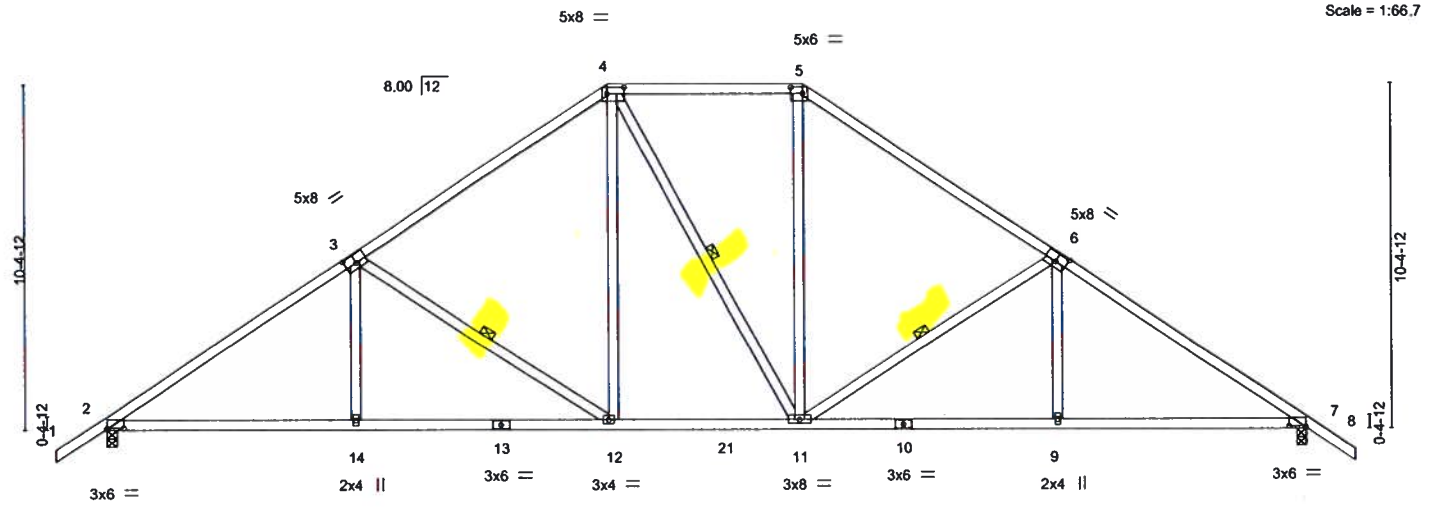
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	T19	Hip	1	1	T19891710
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:26 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-hTJfJrY0OJXAfO8McH_s77vvuB244Wh69lyGv6zUPSR

1-6-0	7-5-6	15-0-0	20-10-0	28-4-10	35-10-0	37-4-0
1-6-0	7-5-6	7-6-10	5-10-0	7-6-10	7-5-6	1-6-0

Scale = 1:66.7



7-5-6	15-0-0	20-10-0	28-4-10	35-10-0
7-5-6	7-6-10	5-10-0	7-6-10	7-5-6

Plate Offsets (X,Y)– [2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [5:0-4-4,0-2-4], [6:0-4-0,0-3-0], [7:0-6-0,0-0-4]

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	0.78	Vert(LL)	-0.11	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.24	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 208 lb	FT = 20%

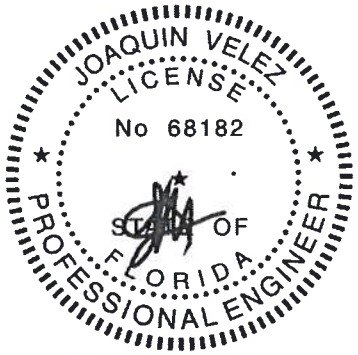
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 7-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 4-11, 6-11

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-302(LC 10)
Max Uplift 2=-338(LC 12), 7=-338(LC 13)
Max Grav 2=1407(LC 1), 7=1407(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2040/1007, 3-4=-1513/878, 4-5=-1292/832, 5-6=-1514/878, 6-7=-2040/1007
BOT CHORD 2-14=-656/1692, 12-14=-656/1693, 11-12=-283/1173, 9-11=-664/1623, 7-9=-665/1621
WEBS 3-14=0/326, 3-12=-757/457, 4-12=-206/542, 5-11=-206/531, 6-11=-756/457, 6-9=0/325

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=338, 7=338.



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April 3,2020

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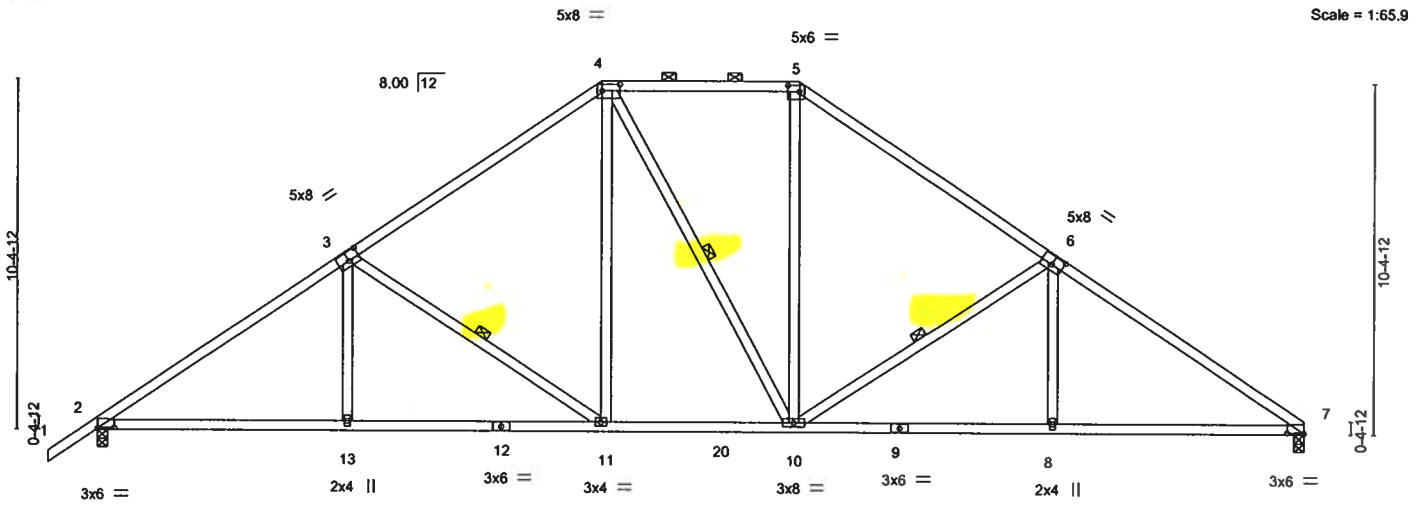
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	T20	Piggyback Base	4	1	T19891711
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:27 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-9ft1WBZf9df1HYjZA_V5fKS4faNHpzpGOPhqSYzUPSQ



Scale = 1:65.9

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [5:0-4-4,0-2-4], [6:0-4-0,0-3-0], [7:0-6-0,0-0-3]

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	0.78	Vert(LL)	-0.11	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.24	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 205 lb	FT = 20%

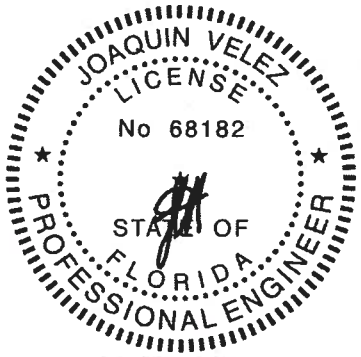
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-11-14 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.
WEBS 1 Row at midpt 3-11, 4-10, 6-10

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=293(LC 9)
Max Uplift 2=-338(LC 12), 7=-305(LC 13)
Max Grav 2=1409(LC 1), 7=1324(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2043/1013, 3-4=-1516/884, 4-5=-1295/837, 5-6=-1518/885, 6-7=-2052/1022
BOT CHORD 2-13=-712/1679, 11-13=-712/1681, 10-11=-331/1161, 8-10=-721/1635, 7-8=-721/1634
WEBS 3-13=0/326, 3-11=-757/457, 4-11=-207/542, 5-10=-210/531, 6-10=-749/468, 6-8=0/327

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=338, 7=305.
7) 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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April 3,2020

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891712
2268020	T22	Piggyback Base	3	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:28 2020 Page 1
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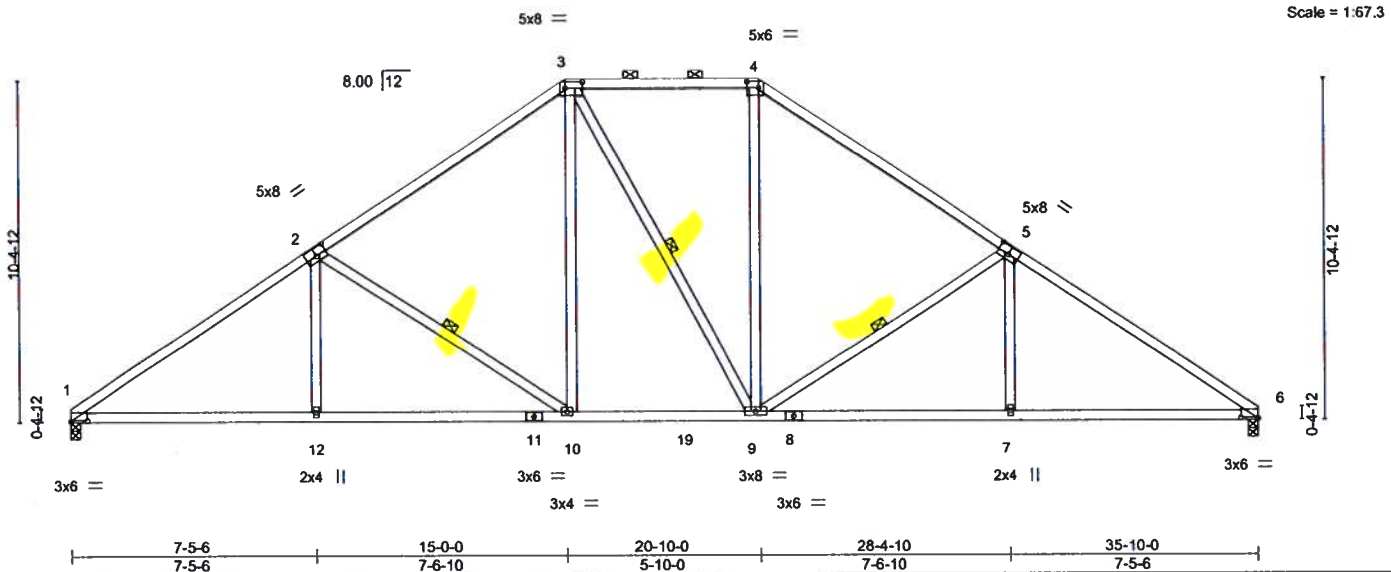


Plate Offsets (X,Y)– [1:0-6-0,0-0-4], [2:0-4-0,0-3-0], [3:0-6-4,0-2-4], [4:0-4-4,0-2-4], [5:0-4-0,0-3-0], [6:0-6-0,0-0-4]

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	0.77	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.24	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 202 lb	FT = 20%

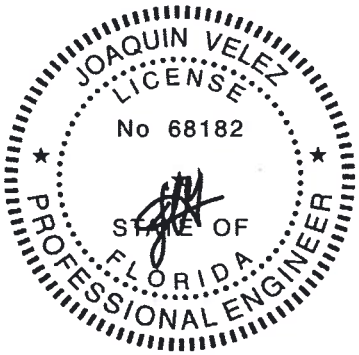
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-12 oc purlins, except
2-0-0 oc purlins (4-11-13 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 2-10, 3-9, 5-9

REACTIONS. (size) 1=0-3-8, 6=0-3-8
Max Horz 1=274(LC 9)
Max Uplift 1=-306(LC 12), 6=-306(LC 13)
Max Grav 1=1326(LC 1), 6=1326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2056/1024, 2-3=-1520/888, 3-4=-1294/840, 4-5=-1521/888, 5-6=-2055/1024
BOT CHORD 1-12=-724/1692, 10-12=-724/1693, 9-10=-334/1164, 7-9=-723/1638, 6-7=-724/1636
WEBS 2-12=0/327, 2-10=-750/468, 3-10=-211/547, 4-9=-212/530, 5-9=-749/468, 5-7=0/326

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=306, 6=306.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
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April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891713
2268020	T23	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:29 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-51?oxtbvhEvkWstxHPXZIlXPGO3iHtGYrjAwWQzUPSO

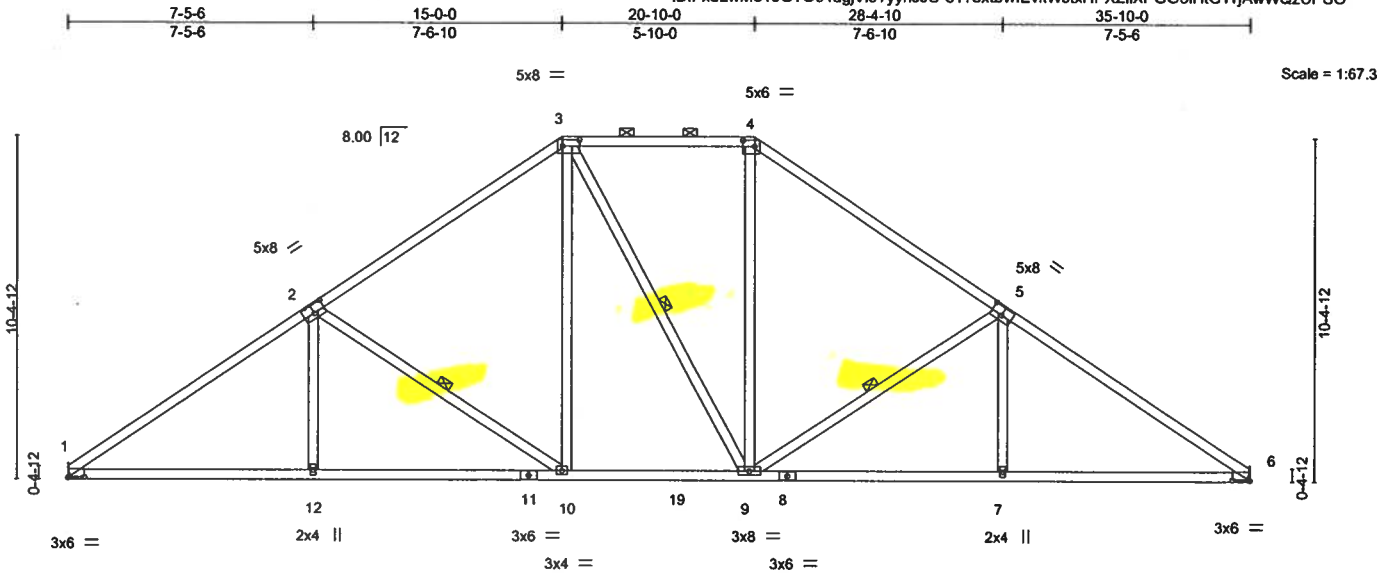


Plate Offsets (X,Y)– [1:0-6-0,0-0-4], [2:0-4-0,0-3-0], [3:0-6-4,0-2-4], [4:0-4-4,0-2-4], [5:0-4-0,0-3-0], [6:0-6-0,0-0-4]

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	0.77	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.24	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 202 lb	FT = 20%

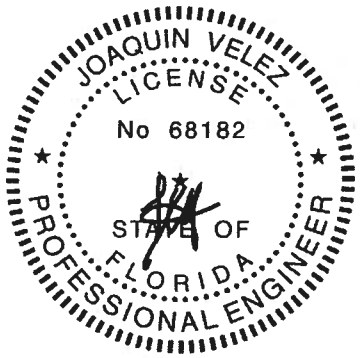
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-12 oc purlins, except
2-0-0 oc purlins (4-11-13 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 2-10, 3-9, 5-9

REACTIONS. (size) 1=Mechanical, 6=Mechanical
Max Horz 1=274(LC 9)
Max Uplift 1=-306(LC 12), 6=-306(LC 13)
Max Grav 1=1326(LC 1), 6=1326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2056/1024, 2-3=-1520/888, 3-4=-1294/840, 4-5=-1521/888, 5-6=-2055/1024
BOT CHORD 1-12=-724/1692, 10-12=-724/1693, 9-10=-334/1164, 7-9=-723/1638, 6-7=-724/1636
WEBS 2-12=0/327, 2-10=-750/468, 3-10=-211/547, 4-9=-212/530, 5-9=-749/468, 5-7=0/326

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=306, 6=306.
8) 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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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891714
2268020	T24	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:30 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-aEZA9DbXSY1b8?S8r72oHz4avoOx0KLi4NwU2tzUPSN

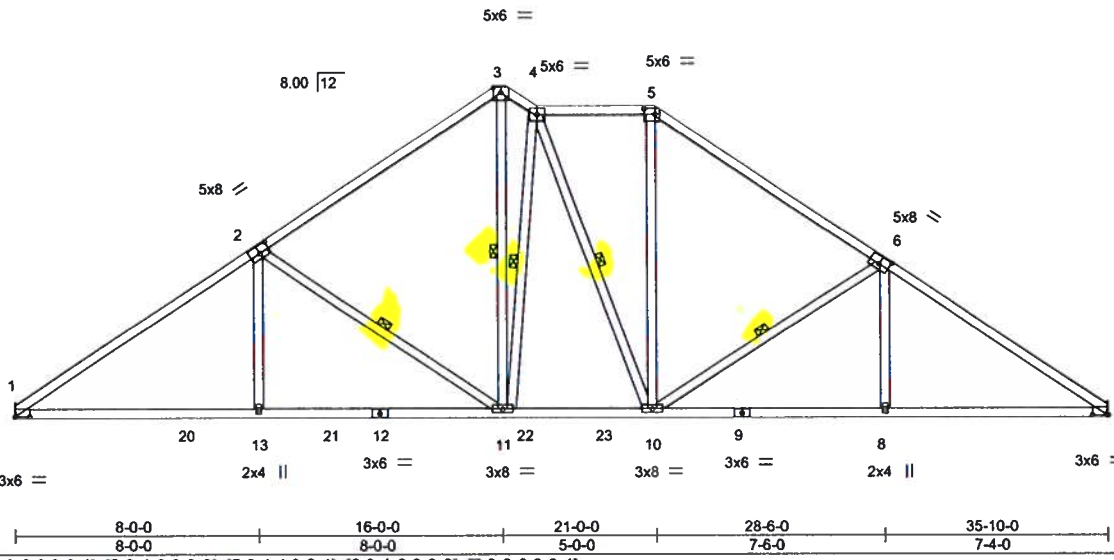


Plate Offsets (X,Y)-- [1:0-6-0,0-0-4], [2:0-4-0,0-3-0], [5:0-4-4,0-2-4], [6:0-4-0,0-3-0], [7:0-6-0,0-0-4]

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	0.78	Vert(LL)	0.13	13-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.26	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 218 lb	FT = 20%

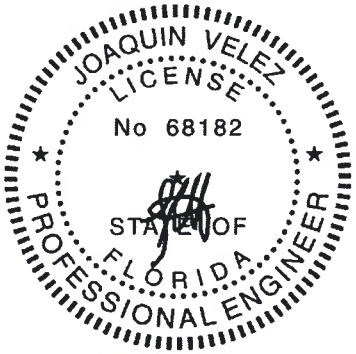
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 2-11, 3-11, 4-11, 4-10, 6-10

REACTIONS. (size) 1=Mechanical, 7=Mechanical
Max Horz 1=290(LC 9)
Max Uplift 1=-311(LC 12), 7=-337(LC 13)
Max Grav 1=1378(LC 19), 7=1326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2094/1004, 2-3=-1481/867, 3-4=-1391/861, 4-5=-1334/835, 5-6=-1527/886, 6-7=-2057/1016
BOT CHORD 1-13=-696/1865, 11-13=-696/1866, 10-11=-338/1262, 8-10=-716/1633, 7-8=-715/1636
WEBS 2-13=0/350, 2-11=-784/486, 3-11=-612/1110, 4-11=-644/386, 5-10=-222/540, 6-10=-732/461, 6-8=0/326

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=311, 7=337.



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April 3,2020

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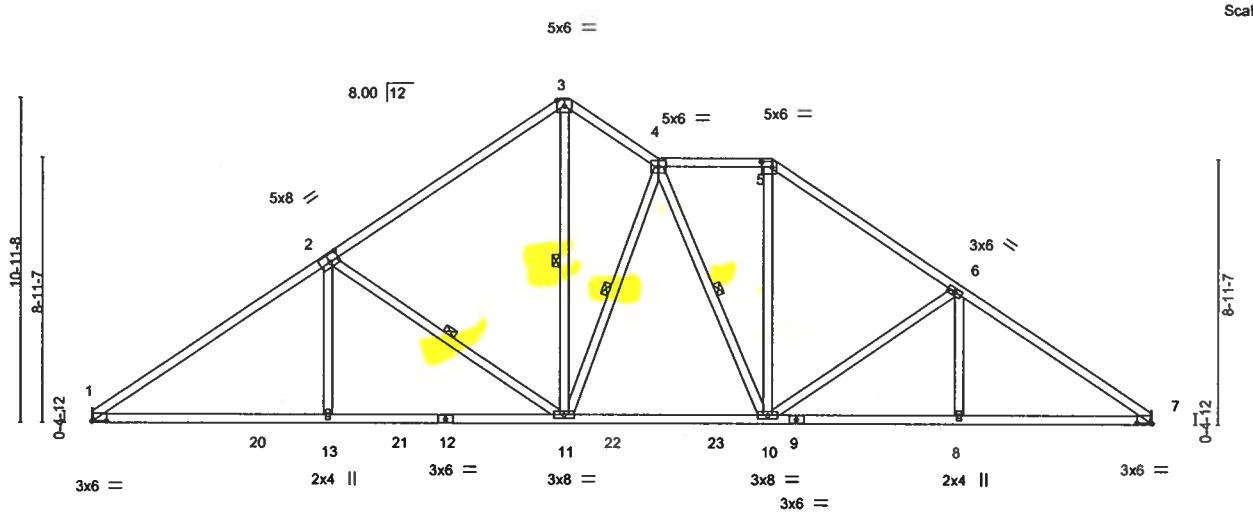
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891715
2268020	T25	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:31 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-2Q7YMYc9DsASm91KPqZ1qAdkmCkSli3rl1f1bJzUPSM

8-0-0	16-0-0	19-2-0	23-0-0	29-3-15	35-10-0
8-0-0	8-0-0	3-2-0	3-10-0	6-3-15	6-6-1

Scale = 1:75.0



8-0-0	16-0-0	23-0-0	29-3-15	35-10-0
8-0-0	8-0-0	7-0-0	6-3-15	6-6-1

Plate Offsets (X,Y)-- [1:0-6-0,0-0-4], [2:0-4-0,0-3-0], [5:0-4-4,0-2-4], [7:0-6-0,0-0-4]

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	0.84	Vert(LL)	-0.17	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.28	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 210 lb	FT = 20%

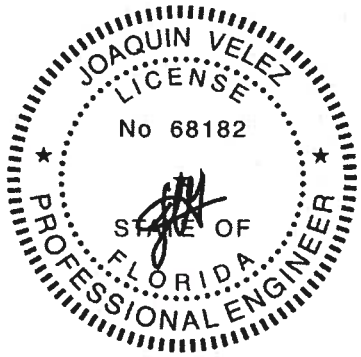
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.
WEBS 1 Row at midpt 2-11, 3-11, 4-11, 4-10

REACTIONS. (size) 7=Mechanical, 1=Mechanical
Max Horz 1=-290(LC 8)
Max Uplift 7=-337(LC 13), 1=-311(LC 12)
Max Grav 7=1326(LC 1), 1=1388(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2109/1004, 2-3=-1493/864, 3-4=-1487/901, 4-5=-1411/855, 5-6=-1639/925, 6-7=-2080/1032
BOT CHORD 1-13=-696/1879, 11-13=-696/1879, 10-11=-465/1426, 8-10=-743/1664, 7-8=-743/1664
WEBS 2-13=0/342, 2-11=-782/491, 3-11=-706/1277, 4-11=-748/514, 4-10=-297/123, 5-10=-281/649, 6-10=-621/394, 6-8=0/266

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=337, 1=311.



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April 3,2020

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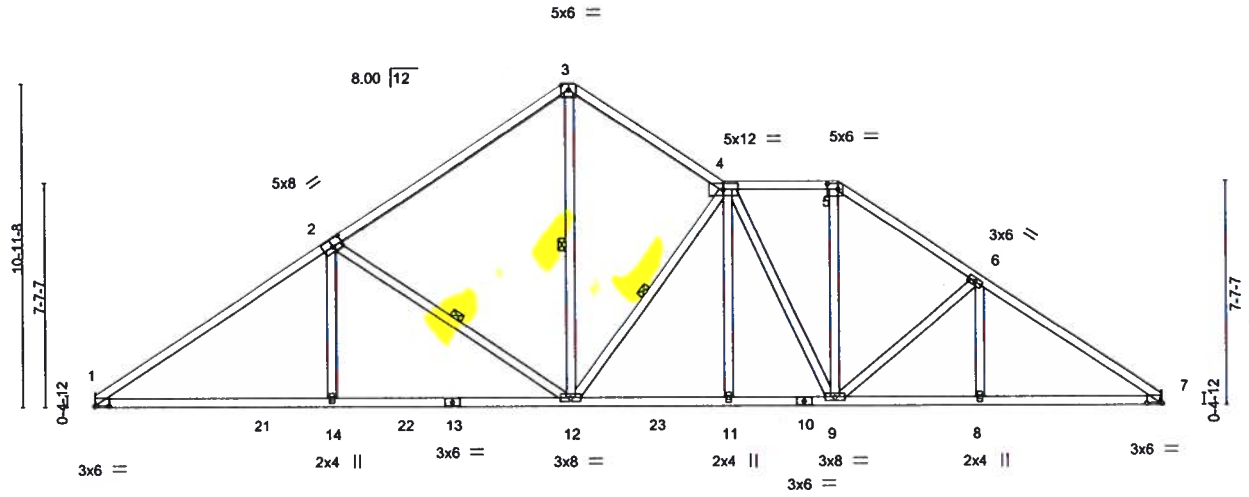
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891716
2268020	T26	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:33 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-_pEJnEePITQA?TBjWFcVvbi4z?QqDda8mL88fCzUPSK

8-0-0	16-0-0	21-2-0	25-0-0	29-9-2	35-10-0
8-0-0	8-0-0	5-2-0	3-10-0	4-9-2	6-0-14

Scale = 1:75.0



6-0-0	8-0-0	16-0-0	21-2-0	25-0-0	29-9-2	35-10-0
6-0-0	2-0-0	8-0-0	5-2-0	3-10-0	4-9-2	6-0-14

Plate Offsets (X,Y)-- [1:0-6-0,0-0-4], [2:0-4-0,0-3-0], [5:0-4-4,0-2-4], [7:0-6-0,0-0-4]

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 0.86	Vert(LL) 0.13 14-20 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.73	Vert(CT) -0.25 12-14 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.09 7 n/a n/a	
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS		Weight: 214 lb FT = 20%

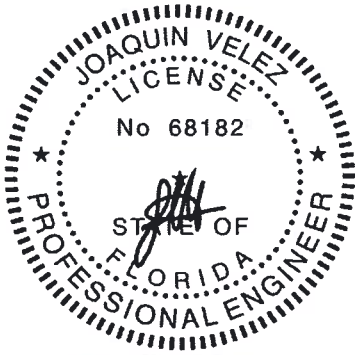
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-6-6 oc bracing.
WEBS 1 Row at midpt 2-12, 3-12, 4-12

REACTIONS. (size) 7=Mechanical, 1=Mechanical
Max Horz 1=290(LC 9)
Max Uplift 7=-337(LC 13), 1=-311(LC 12)
Max Grav 7=1326(LC 1), 1=1372(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2083/1002, 2-3=-1502/863, 3-4=-1498/883, 4-5=-1479/874, 5-6=-1736/974, 6-7=-2086/1036
BOT CHORD 1-14=-694/1857, 12-14=-694/1858, 11-12=-605/1587, 9-11=-605/1590, 8-9=-749/1669, 7-8=-749/1669
WEBS 2-14=0/348, 2-12=-790/489, 3-12=-673/1258, 4-12=-847/551, 4-9=-525/216, 5-9=-370/785, 6-9=-514/324

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=337, 1=311.



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April 3,2020

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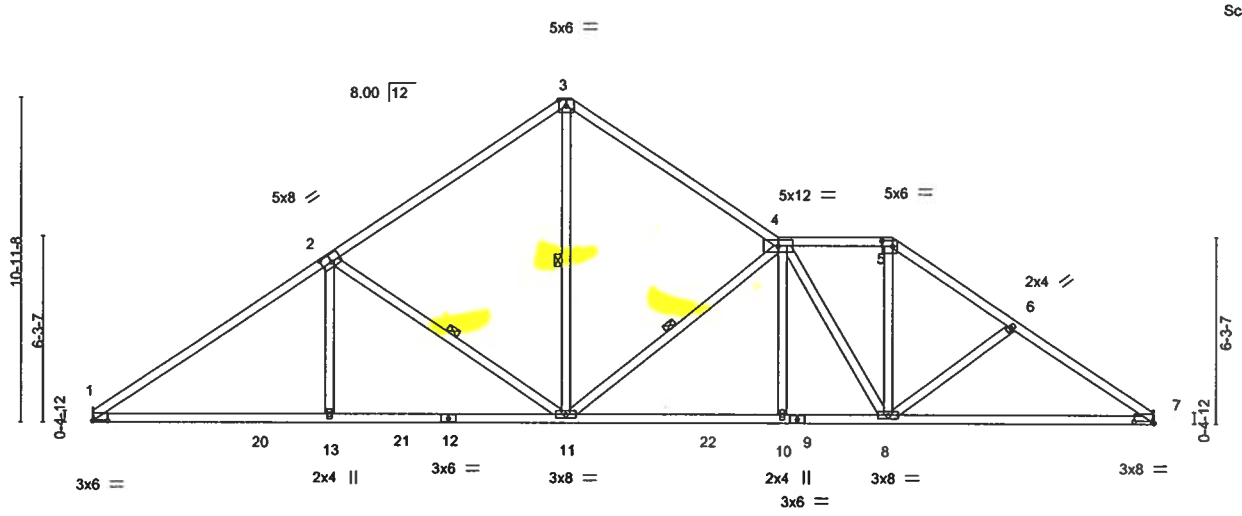
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891717
2268020	T27	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:34 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-S?oh_af2WnY1ddmv4y7kSpFDTPlty5FH?_uhBezUPSJ

8-0-0	16-0-0	23-2-0	27-0-0	31-0-6	35-10-0
8-0-0	8-0-0	7-2-0	3-10-0	4-0-6	4-9-10

Scale = 1:75.0



8-0-0	16-0-0	23-2-0	27-0-0	35-10-0
8-0-0	8-0-0	7-2-0	3-10-0	8-10-0

Plate Offsets (X,Y)– [1:0-6-0,0-0-3], [2:0-4-0,0-3-0], [5:0-4-4,0-2-4], [7:0-8-0,0-0-11]

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	1.00	Vert(LL)	-0.16	8-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.34	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 201 lb	FT = 20%

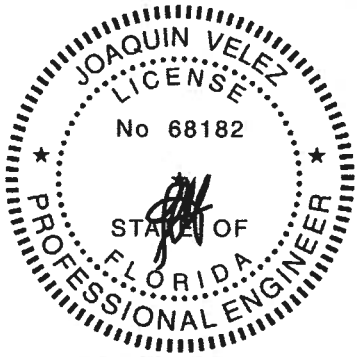
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-6-12 oc bracing.
WEBS 1 Row at midpt 2-11, 3-11, 4-11

REACTIONS. (size) 7=Mechanical, 1=Mechanical
Max Horz 1=290(LC 9)
Max Uplift 7=-337(LC 13), 1=-311(LC 12)
Max Grav 7=1326(LC 1), 1=1369(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2076/999, 2-3=-1515/862, 3-4=-1500/857, 4-5=-1570/893, 5-6=-1867/999, 6-7=-2066/1069
BOT CHORD 1-13=-691/1851, 11-13=-691/1852, 10-11=-772/1834, 8-10=-772/1836, 7-8=-799/1688
WEBS 2-13=0/344, 2-11=-784/484, 3-11=-619/1215, 4-11=-988/629, 4-8=-694/338, 5-8=-414/889, 6-8=-348/268

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=337, 1=311.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

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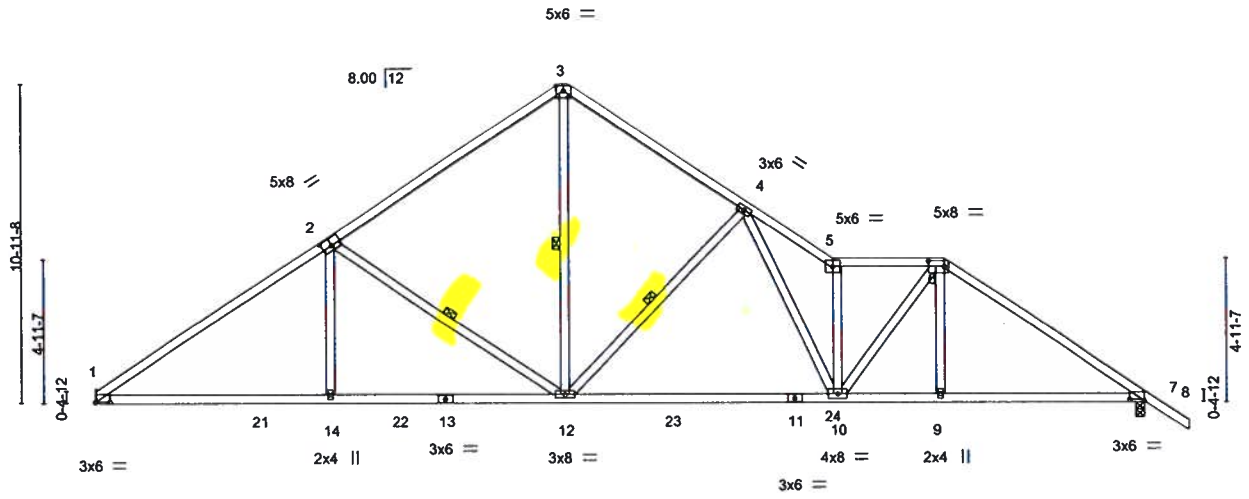
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891718
2268020	T28	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:35 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-wBM3CwfgG4guFnK5egez_0nQDp2GhXsRDedFk4zUPSI

8-0-0	16-0-0	22-1-11	25-2-0	29-0-0	35-10-0	37-4-0
8-0-0	8-0-0	6-1-11	3-0-5	3-10-0	6-10-0	1-6-0

Scale = 1:76.1



8-0-0	16-0-0	25-2-0	29-0-0	35-10-0
8-0-0	8-0-0	9-2-0	3-10-0	6-10-0

Plate Offsets (X,Y)-- [1:0-6-0,0-0-3], [2:0-4-0,0-3-0], [6:0-6-4,0-2-4], [7:0-6-0,0-0-7]

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	0.87	Vert(LL)	-0.29	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.56	10-12	>768	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 201 lb	FT = 20%

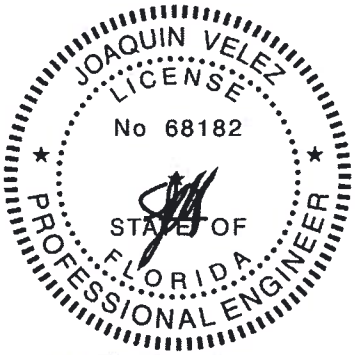
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 2-12, 3-12, 4-12

REACTIONS. (size) 1=Mechanical, 7=0-3-8
Max Horz 1=-309(LC 10)
Max Uplift 1=-311(LC 12), 7=-370(LC 13)
Max Grav 1=1382(LC 19), 7=1409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2094/996, 2-3=-1530/856, 3-4=-1535/873, 4-5=-2641/1435, 5-6=-2149/1145, 6-7=-2024/1000
BOT CHORD 1-14=-647/1881, 12-14=-646/1881, 10-12=-651/1721, 9-10=-648/1601, 7-9=-648/1598
WEBS 2-14=0/324, 2-12=-772/491, 3-12=-661/1291, 4-12=-934/606, 4-10=-574/1113, 5-10=-1519/861, 6-10=-367/949

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=311, 7=370.



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April 3,2020

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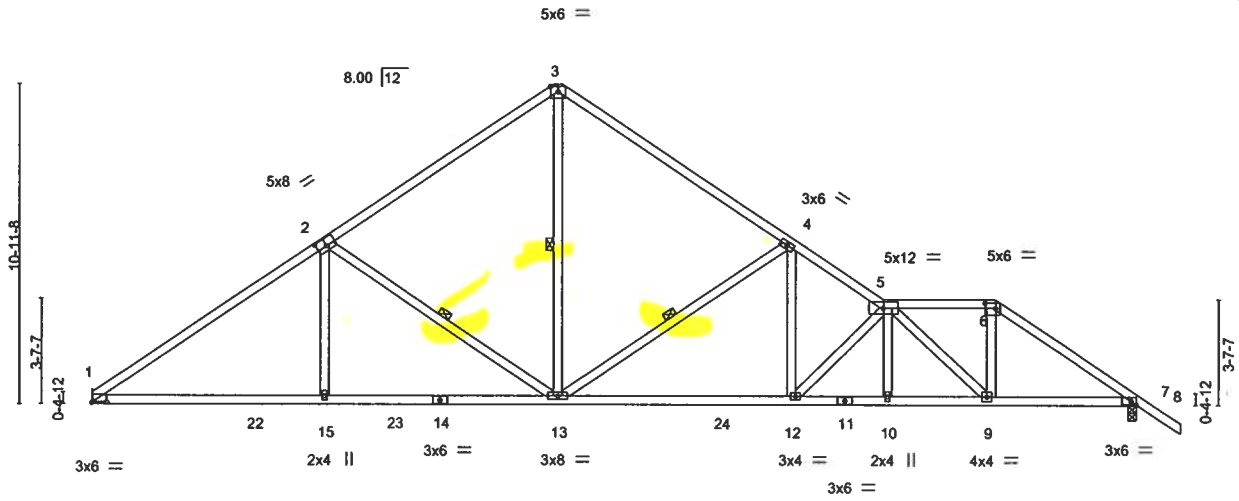
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891719
2268020	T29	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:36 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-OOwRPGgl1OolswvHBN9CXEKciDR9Q0qaSINoGWzUPSH

8-0-0	16-0-0	24-0-0	27-2-0	31-0-0	35-10-0	37-4-0
8-0-0	8-0-0	8-0-0	3-2-0	3-10-0	4-10-0	1-6-0

Scale = 1:76.1



8-0-0	16-0-0	24-0-0	27-2-0	31-0-0	35-10-0
8-0-0	8-0-0	8-0-0	3-2-0	3-10-0	4-10-0

Plate Offsets (X,Y)– [1:0-6-0,0-0-3], [2:0-4-0,0-3-0], [6:0-4-4,0-2-4], [7:0-2-3,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	0.82	Vert(LL)	-0.16	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.34	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 200 lb	FT = 20%

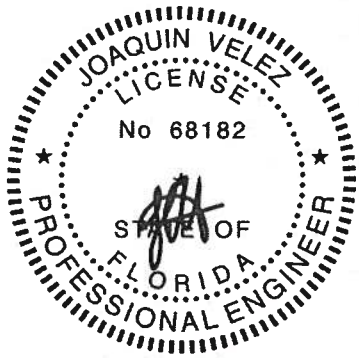
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5: 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-6-2 oc bracing.
WEBS 1 Row at midpt 2-13, 3-13, 4-13

REACTIONS. (size) 1=Mechanical, 7=0-3-8
Max Horz 1=-309(LC 8)
Max Uplift 1=-311(LC 12), 7=-370(LC 13)
Max Grav 1=1363(LC 19), 7=1409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2066/993, 2-3=-1538/856, 3-4=-1530/850, 4-5=-2414/1254, 5-6=-1745/932, 6-7=-2087/1028
BOT CHORD 1-15=-643/1856, 13-15=-643/1857, 12-13=-830/1997, 10-12=-1155/2591, 9-10=-1154/2593, 7-9=-709/1672
WEBS 2-15=0/343, 2-13=-783/484, 3-13=-612/1243, 4-13=-1178/710, 4-12=-307/781, 5-12=-863/471, 5-9=-1188/587, 6-9=-375/897

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=311, 7=370.



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April 3,2020

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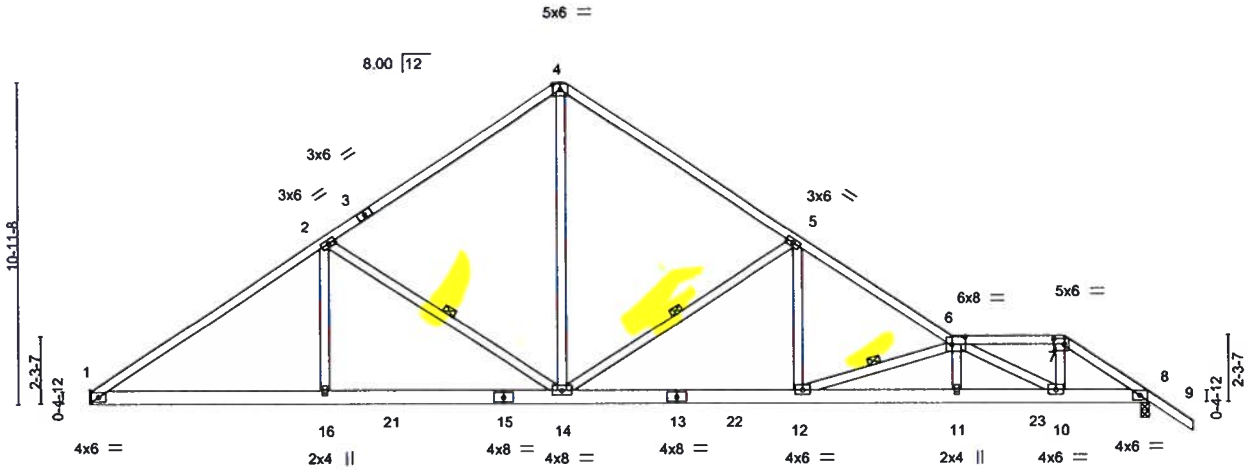
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891720
2268020	T30	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:37 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-saUpdchwoiwcU4UUl5gR3RtIbcki9Qikhy6LozzUPSG

8-0-0	16-0-0	24-0-0	29-2-0	33-0-0	35-10-0	37-4-0
8-0-0	8-0-0	8-0-0	5-2-0	3-10-0	2-10-0	1-6-0

Scale = 1:75.6



8-0-0	16-0-0	24-0-0	29-2-0	33-0-0	35-10-0
8-0-0	8-0-0	8-0-0	5-2-0	3-10-0	2-10-0

Plate Offsets (X,Y)– [6:0-5-8,0-3-0], [7:0-4-4,0-2-4]

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	0.94	Vert(LL)	-0.19	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.36	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 225 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x4 SP M 31
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

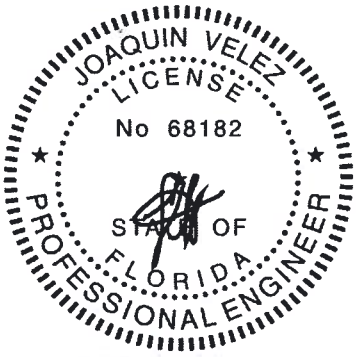
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-9-5 oc bracing.
WEBS 1 Row at midpt 2-14, 5-14, 6-12

REACTIONS. (size) 1=Mechanical, 8=0-3-8
Max Horz 1=-309(LC 6)
Max Uplift 1=-337(LC 8), 8=-584(LC 9)
Max Grav 1=1364(LC 1), 8=1755(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2130/522, 2-4=-1555/481, 4-5=-1552/468, 5-6=-2686/738, 6-7=-2458/836, 7-8=-2872/947
BOT CHORD 1-16=-452/1858, 14-16=-452/1858, 12-14=-462/2215, 11-12=-1165/4261, 10-11=-1164/4265, 8-10=-706/2350
WEBS 2-16=0/357, 2-14=-735/339, 4-14=-329/1171, 5-14=-1308/530, 5-12=-227/946, 6-12=-2182/749, 6-10=-2036/482, 7-10=-385/1414

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=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=337, 8=584.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 168 lb down and 139 lb up at 33-0-0 on top chord, and 367 lb down and 186 lb up at 32-0-12, and 93 lb down and 21 lb up at 32-11-4 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: 1-4=-54, 4-6=-54, 6-7=-54, 7-9=-54, 1-8=-20



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6904 Parke East Blvd. Tampa FL 33610
Date:
April 3,2020

Continued on page 2

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Tampa, FL 36610

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-8(B) 10=-11(B) 23=-367(B)

⚠ ***WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.***
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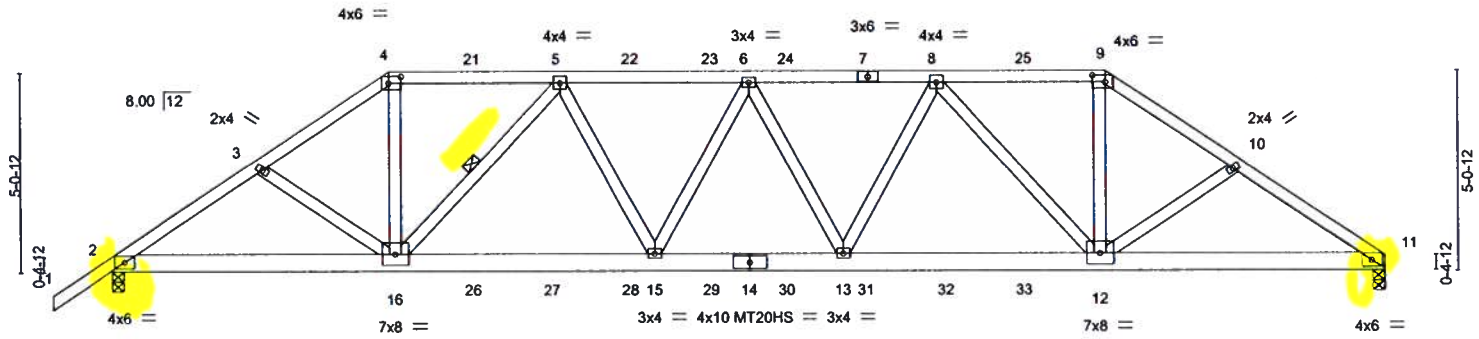
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891721
2268020	T31	HIP GIRDER	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:39 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-pzca1HiAKJAKjOestWiv9syBHQZ4dGg18GbStrzUPSE

-1-6-0	3-9-11	7-0-0	11-3-6	16-0-0	20-8-10	25-0-0	28-2-5	32-0-0
1-6-0	3-9-11	3-2-5	4-3-6	4-8-10	4-8-10	4-3-6	3-2-5	3-9-11

Scale = 1:56.1



7-0-0	13-7-11	18-4-5	25-0-0	32-0-0
7-0-0	6-7-11	4-8-10	6-7-11	7-0-0

Plate Offsets (X,Y)– [4:0-3-12,0-2-0], [9:0-3-12,0-2-0]

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	0.55	Vert(LL)	0.26	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.38	12-13	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 201 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

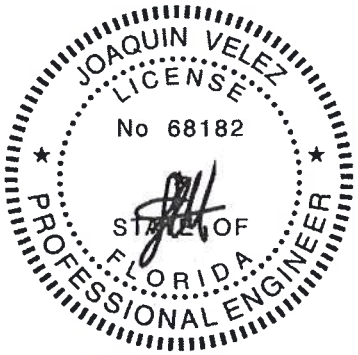
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-2 oc bracing.
WEBS 1 Row at midpt 5-16

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=147(LC 24)
Max Uplift 11=-1181(LC 9), 2=-1133(LC 8)
Max Grav 11=2379(LC 1), 2=2424(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3972/1927, 3-4=-3817/1910, 4-5=-3196/1639, 5-6=-4462/2257, 6-8=-4479/2278, 8-9=-3264/1763, 9-10=-3901/2054, 10-11=-4059/2083
BOT CHORD 2-16=-1676/3259, 15-16=-2109/4096, 13-15=-2325/4546, 12-13=-2129/4132, 11-12=-1670/3333
WEBS 4-16=-917/1883, 5-16=-1398/776, 5-15=-401/841, 8-13=-323/797, 8-12=-1345/684, 9-12=-851/1859

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=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); 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 3-6-0 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 (jt=lb) 11=1181, 2=1133.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 72 lb up at 7-0-0, 77 lb down and 67 lb up at 9-0-12, 77 lb down and 67 lb up at 11-0-12, 77 lb down and 67 lb up at 13-0-12, 77 lb down and 67 lb up at 15-0-12, 77 lb down and 67 lb up at 16-11-4, 77 lb down and 67 lb up at 18-11-4, 77 lb down and 67 lb up at 20-11-4, and 77 lb down and 67 lb up at 22-11-4, and 180 lb down and 267 lb up at 25-0-0 on top chord, and 454 lb down and 333 lb up at 7-0-0, 165 lb down and 88 lb up at 9-0-12, 165 lb down and 88 lb up at 11-0-12, 165 lb down and 88 lb up at 13-0-12, 165 lb down and 88 lb up at 15-0-12, 165 lb down and 88 lb up at 16-11-4, 165 lb down and 88 lb up at 18-11-4, 165 lb down and 88 lb up at 20-11-4, and 165 lb down and 88 lb up at 22-11-4, and 454 lb down and 333 lb up at 24-11-4 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



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April 3,2020

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-9=-54, 9-11=-54, 2-11=-20
   Concentrated Loads (lb)
   Vert: 4=-18(B) 7=-18(B) 9=-90(B) 16=-427(B) 5=-18(B) 8=-18(B) 12=-427(B) 21=-18(B) 22=-18(B) 23=-18(B) 24=-18(B) 25=-18(B) 26=-156(B) 27=-156(B) 28=-156(B) 29=-156(B) 30=-156(B) 31=-156(B) 32=-156(B) 33=-156(B)

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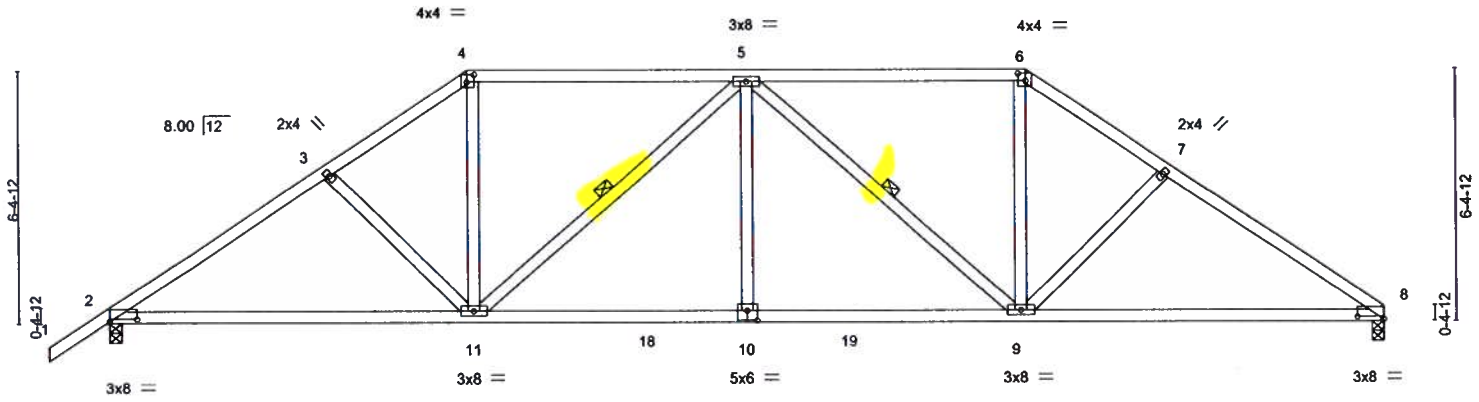
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891722
2268020	T32	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:40 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-H99yFdjp5dlALYD3QDE8h4VMsqoxMupANwL0PlzUPSD

-1-6-0	5-6-6	9-0-0	16-0-0	23-0-0	26-5-10	32-0-0
1-6-0	5-6-6	3-5-10	7-0-0	7-0-0	3-5-10	5-6-6

Scale = 1:56.1



9-0-0	16-0-0	23-0-0	32-0-0
9-0-0	7-0-0	7-0-0	9-0-0

Plate Offsets (X,Y)– [2:0-8-0,0-0-12], [4:0-2-4,0-2-4], [6:0-2-4,0-2-4], [8:0-8-0,0-0-11], [10:0-3-0,0-3-0]

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	0.56	Vert(LL)	-0.15	9-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.33	9-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 170 lb	FT = 20%

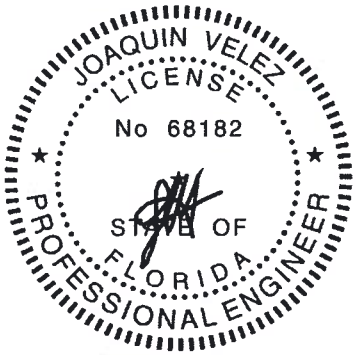
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.
WEBS 1 Row at midpt 5-11, 5-9

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=183(LC 9)
Max Uplift 8=-243(LC 13), 2=-276(LC 12)
Max Grav 8=1182(LC 1), 2=1267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1791/944, 3-4=-1595/912, 4-5=-1289/812, 5-6=-1294/817, 6-7=-1603/919, 7-8=-1786/953
BOT CHORD 2-11=-677/1434, 10-11=-697/1600, 9-10=-697/1600, 8-9=-689/1446
WEBS 3-11=-349/248, 4-11=-301/619, 5-11=-518/257, 5-10=0/301, 5-9=-515/247, 6-9=-307/624, 7-9=-343/258

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=243, 2=276.



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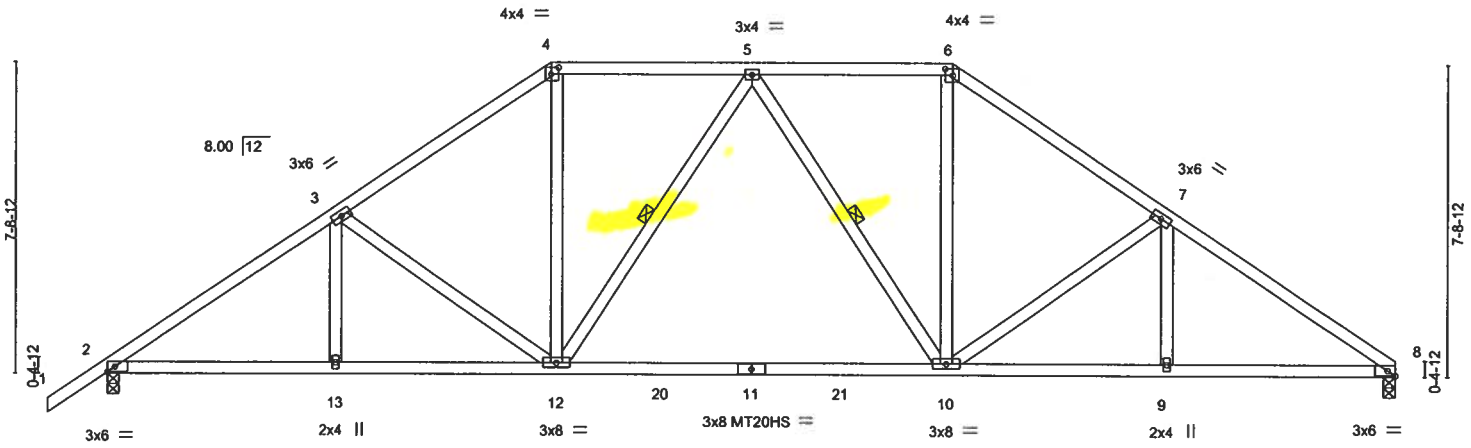
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891723
2268020	T33	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:41 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-lLjKSzkRswQ1zioF_wlNEH1ZfE5D5lzJca4ZxkzUPSC

-1-6-0	5-7-14	11-0-0	16-0-0	21-0-0	26-4-2	32-0-0
1-6-0	5-7-14	5-4-2	5-0-0	5-0-0	5-4-2	5-7-14

Scale = 1:55.1



5-7-14	11-0-0	21-0-0	26-4-2	32-0-0
5-7-14	5-4-2	10-0-0	5-4-2	5-7-14

Plate Offsets (X,Y)-- [4:0-2-4,0-2-0], [6:0-2-4,0-2-0], [8:0-2-3,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	0.43	Vert(LL)	-0.31	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.56	10-12	>691	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 181 lb	FT = 20%

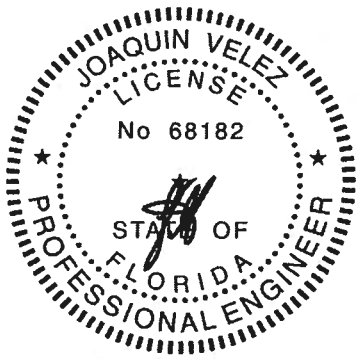
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-12, 5-10

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=220(LC 9)
Max Uplift 8=-258(LC 13), 2=-291(LC 12)
Max Grav 8=1182(LC 1), 2=1267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1830/929, 3-4=-1491/847, 4-5=-1177/779, 5-6=-1177/781, 6-7=-1494/850, 7-8=-1843/942
BOT CHORD 2-13=-668/1462, 12-13=-668/1462, 10-12=-489/1272, 9-10=-681/1476, 8-9=-681/1476
WEBS 3-12=-517/324, 4-12=-259/548, 5-12=-275/193, 5-10=-272/191, 6-10=-262/551, 7-10=-508/338

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., 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
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=258, 2=291.



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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891724
2268020	T34	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:42 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-DYHigJl3dEYuarNRYeGcmVaiVdX9qfgTqEq6UAzUPSB

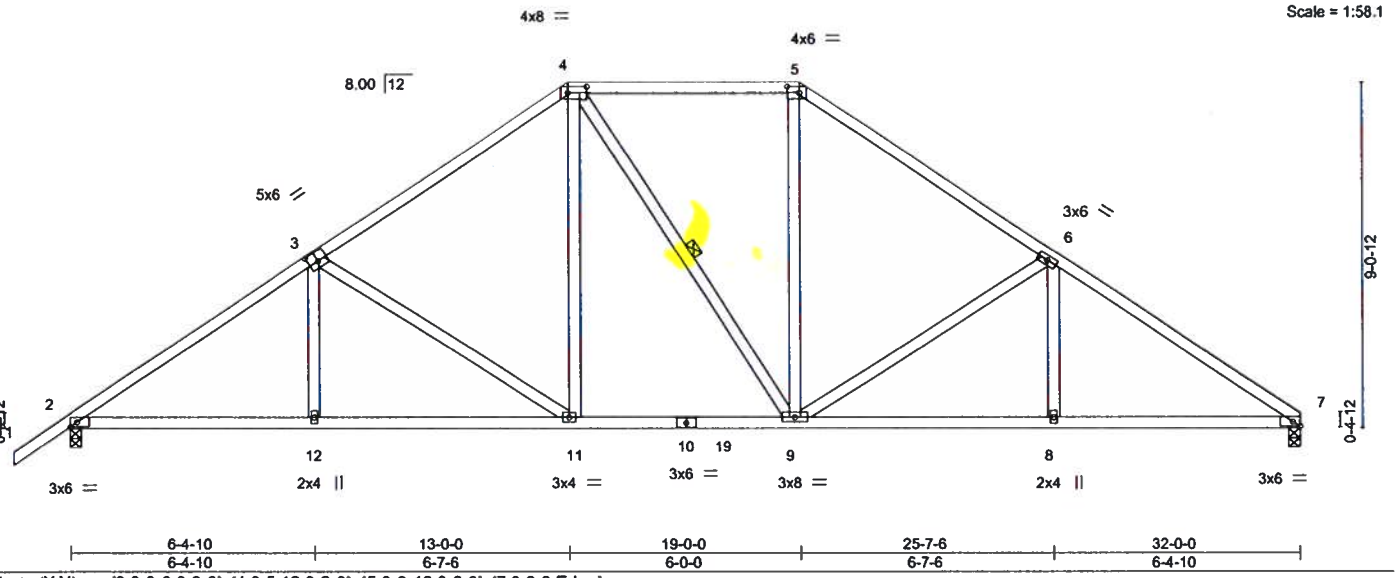


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-5-12,0-2-0], [5:0-3-12,0-2-0], [7:0-2-3,Edge]

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	0.55	Vert(LL)	-0.09	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.16	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 181 lb	FT = 20%

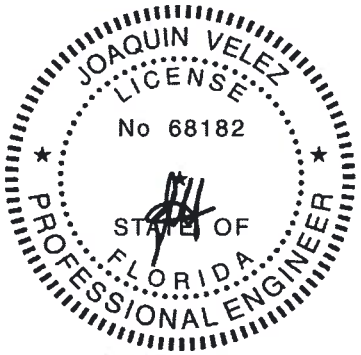
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.
WEBS 1 Row at midpt 4-9

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=256(LC 9)
Max Uplift 7=-270(LC 13), 2=-303(LC 12)
Max Grav 7=1182(LC 1), 2=1267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1822/905, 3-4=-1374/798, 4-5=-1159/754, 5-6=-1377/799, 6-7=-1834/916
BOT CHORD 2-12=-638/1489, 11-12=-638/1488, 9-11=-314/1058, 8-9=-651/1462, 7-8=-651/1462
WEBS 3-12=0/276, 3-11=-649/389, 4-11=-174/486, 5-9=-175/467, 6-9=-642/402, 6-8=0/277

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=28ft; Cat. II; Exp C; Encl., 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
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=270, 2=303.



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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891725
2268020	T35	HIP	1	1	Job Reference (optional)	

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ID:FxdLwMo19GTO04agjVl9TyynJJU-9wPT5?mJ9rocq9Xqf3l4swf0nRBflfpmIYJDY3zUPS9

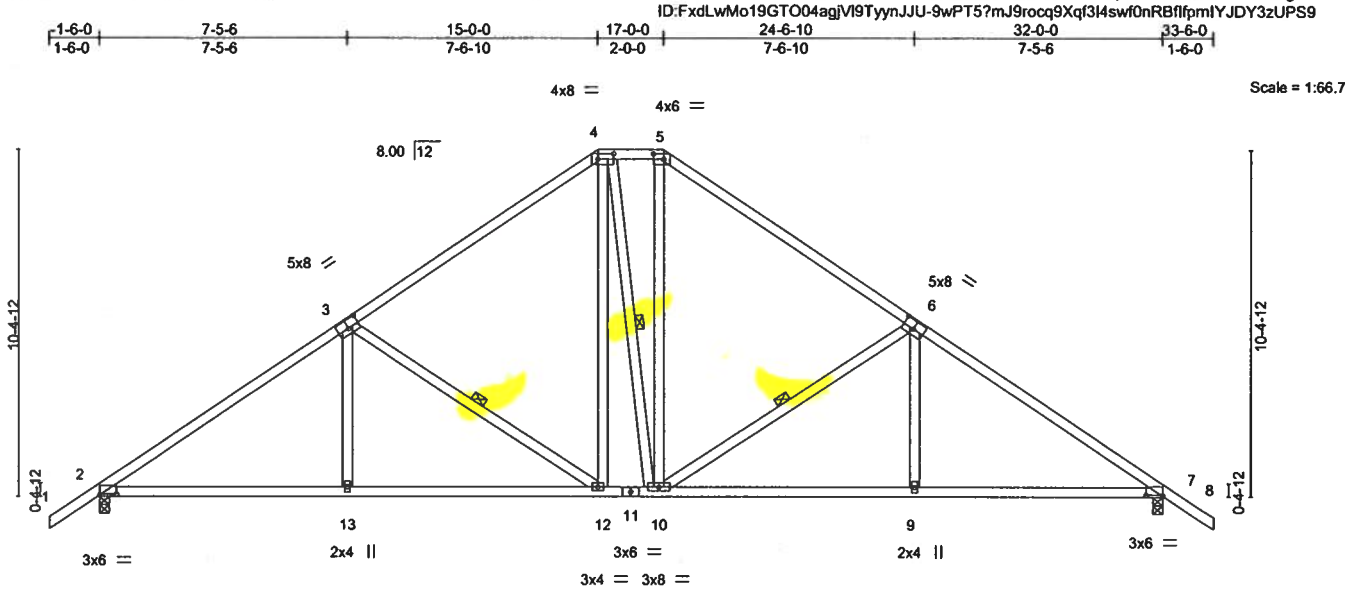


Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [4:0-5-12,0-2-0], [5:0-3-12,0-2-0], [6:0-4-0,0-3-0], [7:0-6-0,0-0-3]

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	0.69	Vert(LL)	-0.10	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.22	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 195 lb	FT = 20%

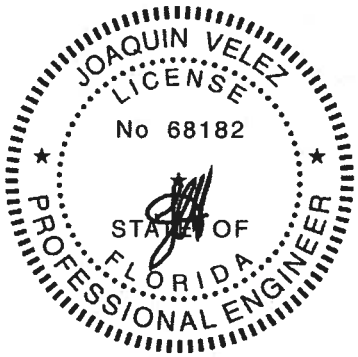
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.
WEBS 1 Row at midpt 3-12, 4-10, 6-10

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-302(LC 10)
Max Uplift 2=-313(LC 12), 7=-313(LC 13)
Max Grav 2=1265(LC 1), 7=1265(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1790/871, 3-4=-1297/739, 4-5=-1151/718, 5-6=-1299/740, 6-7=-1789/870
BOT CHORD 2-13=-543/1465, 12-13=-543/1466, 10-12=-168/944, 9-10=-551/1415, 7-9=-551/1413
WEBS 3-13=0/328, 3-12=-758/460, 4-12=-213/480, 5-10=-217/489, 6-10=-754/458, 6-9=0/325

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=28ft; Cat. II; Exp C; Encl., 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=313, 7=313.



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Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891726
2268020	T36	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:46 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-6JXDVhoZhT3K3TgCnULYxLIKDFtZmaE2IsoKdxzUPS7

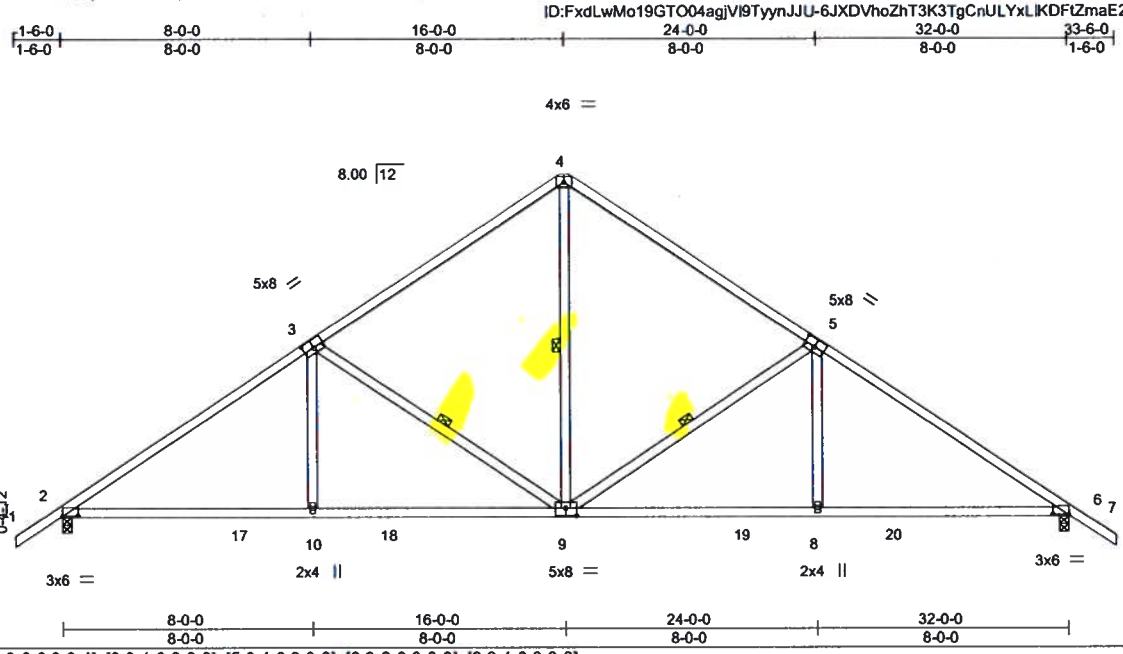


Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-6-0,0-0-3], [9:0-4-0,0-3-0]

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	0.76	Vert(LL)	-0.12	8-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.24	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 169 lb	FT = 20%

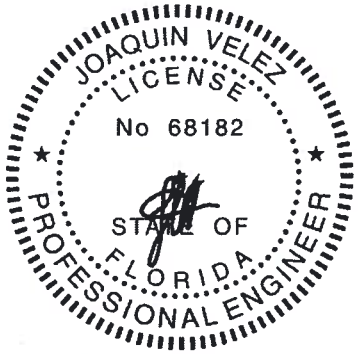
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-6 oc bracing.
WEBS 1 Row at midpt 4-9, 5-9, 3-9

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-318(LC 10)
Max Uplift 2=-317(LC 12), 6=-317(LC 13)
Max Grav 2=1326(LC 19), 6=1326(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1852/853, 3-4=-1304/719, 4-5=-1304/719, 5-6=-1852/853
BOT CHORD 2-10=-518/1677, 9-10=-517/1677, 8-9=-525/1461, 6-8=-525/1461
WEBS 4-9=-472/1002, 5-9=-782/479, 5-8=0/346, 3-9=-781/479, 3-10=0/346

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=28ft; Cat. II; Exp C; Encl., 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
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) 2=317, 6=317.



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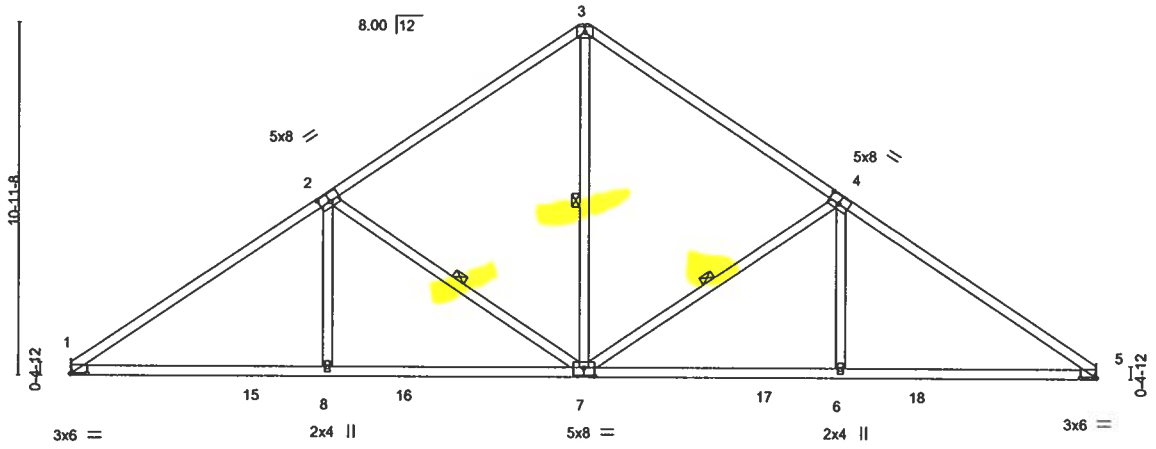
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891727
2268020	T37	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:47 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-aV5bj1pCSmBBhdFPLBsnTYHV_eChV1PC_WXt9OzUPS6

8-0-0 | 16-0-0 | 24-0-0 | 32-0-0
8-0-0 | 8-0-0 | 8-0-0 | 8-0-0

4x6 =

Scale = 1:69.2



8-0-0 | 16-0-0 | 24-0-0 | 32-0-0
8-0-0 | 8-0-0 | 8-0-0 | 8-0-0

Plate Offsets (X,Y)-- [1:0-6-0,0-0-3], [2:0-4-0,0-3-0], [4:0-4-0,0-3-0], [5:0-6-0,0-0-3], [7:0-4-0,0-3-0]

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	0.76	Vert(LL)	0.13	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.23	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 164 lb	FT = 20%

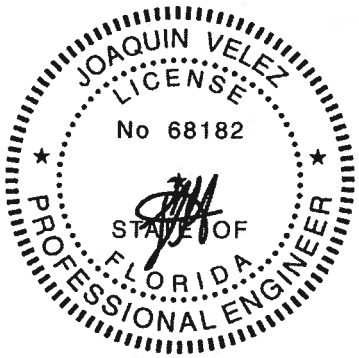
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-2-6 oc bracing.
WEBS 1 Row at midpt 3-7, 4-7, 2-7

REACTIONS. (size) 1=Mechanical, 5=Mechanical
Max Horz 1=-290(LC 10)
Max Uplift 1=-285(LC 12), 5=-285(LC 13)
Max Grav 1=1248(LC 19), 5=1248(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1864/869, 2-3=-1305/728, 3-4=-1305/728, 4-5=-1865/869
BOT CHORD 1-8=-583/1675, 7-8=-583/1676, 6-7=-583/1459, 5-6=-583/1458
WEBS 3-7=-485/1004, 4-7=-793/490, 4-6=0/348, 2-7=-792/490, 2-8=0/348

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=28ft; Cat. II; Exp C; Encl., 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
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=285, 5=285.



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Date:
April 3,2020

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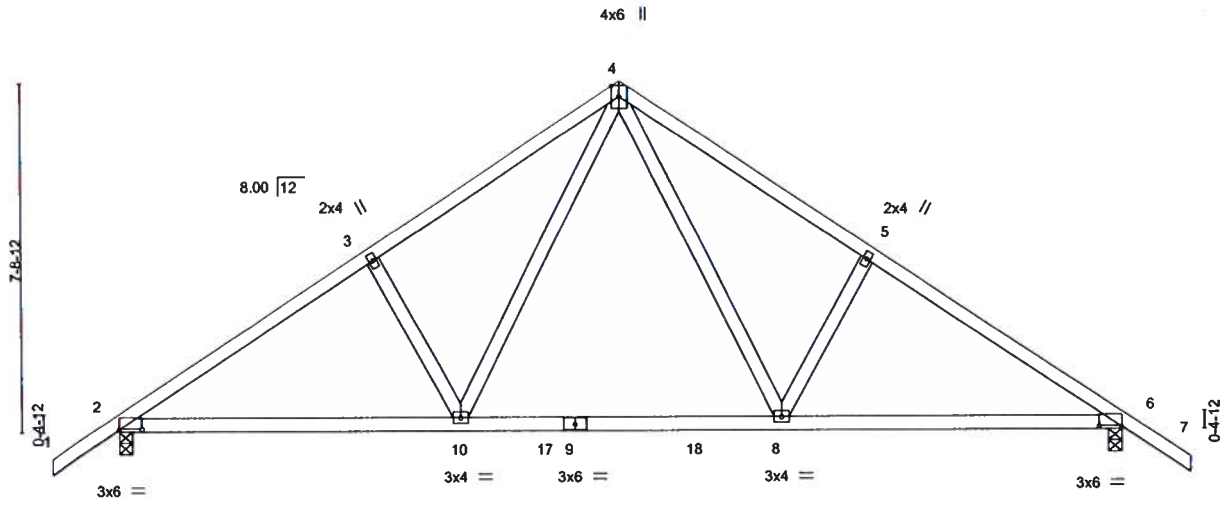
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891728
2268020	T38	Common	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:48 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-2he_wMpqC4J2ImqbuvN00mqmd2bnETULDAHRhqzUPS5

-1-6-0	5-7-0	11-0-0	16-5-0	22-0-0	23-6-0
1-6-0	5-7-0	5-5-0	5-5-0	5-7-0	1-6-0

Scale = 1:49.0



7-5-11	14-6-5	22-0-0
7-5-11	7-0-10	7-5-11

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

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	0.38	Vert(LL)	-0.11	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.16	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 113 lb	FT = 20%

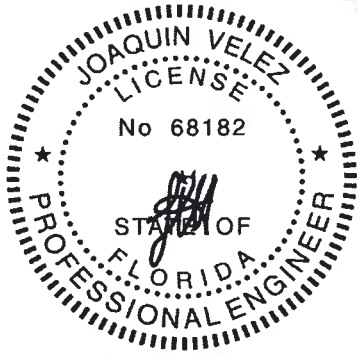
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=285(LC 11)
Max Uplift 2=-394(LC 12), 6=-394(LC 13)
Max Grav 2=895(LC 1), 6=895(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1170/572, 3-4=-1176/630, 4-5=-1175/630, 5-6=-1170/572
BOT CHORD 2-10=-426/1087, 8-10=-140/695, 6-8=-332/934
WEBS 4-8=-297/566, 5-8=-391/343, 4-10=-297/566, 3-10=-391/343

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=28ft; 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
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) 2=394, 6=394.



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Date:
April 3,2020

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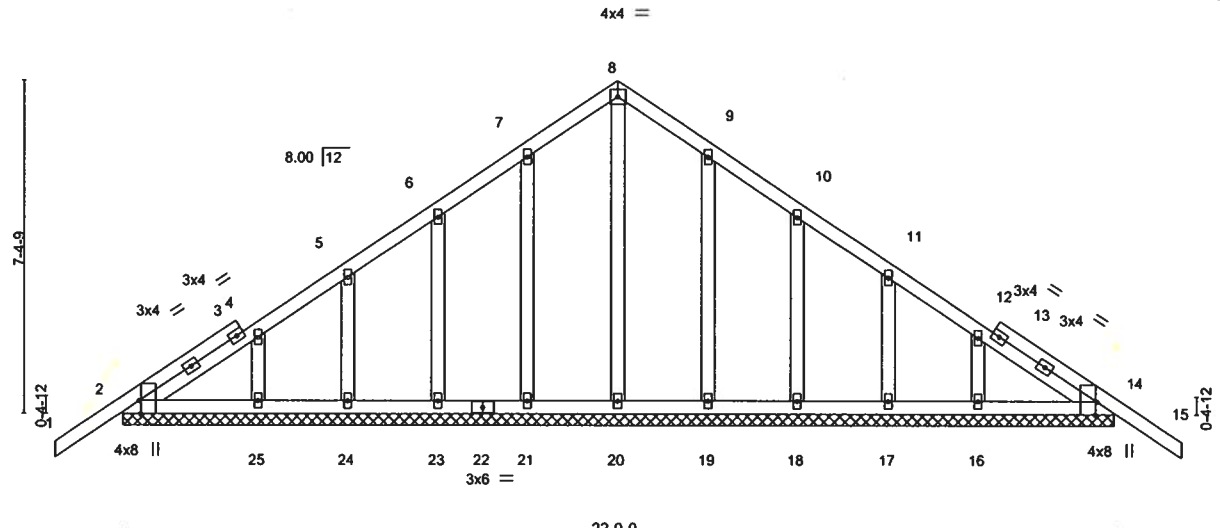
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	T38G	Common Supported Gable	1	1	T19891729
					Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:49 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-WuCM8iqSzORvwwPnScuFZzM_bS23z_5VRq0_DGzUPS4

-1-6-0 | 11-0-0 | 22-0-0 | 23-6-0
1-6-0 | 11-0-0 | 11-0-0 | 1-6-0

Scale = 1:49.2



22-0-0
22-0-0

Plate Offsets (X,Y)— [2:0-3-8,Edge], [14:0-3-8,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	0.17	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 137 lb	FT = 20%

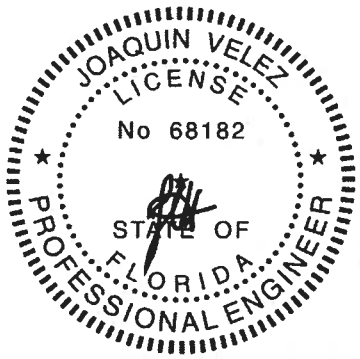
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 2=-273(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14 except 21=-127(LC 12), 23=-127(LC 12), 24=-127(LC 12), 25=-120(LC 12), 19=-124(LC 13), 18=-128(LC 13), 17=-127(LC 13), 16=-126(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

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

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=28ft; 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
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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) 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=127, 23=127, 24=127, 25=120, 19=124, 18=128, 17=127, 16=126.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



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Date:
April 3,2020

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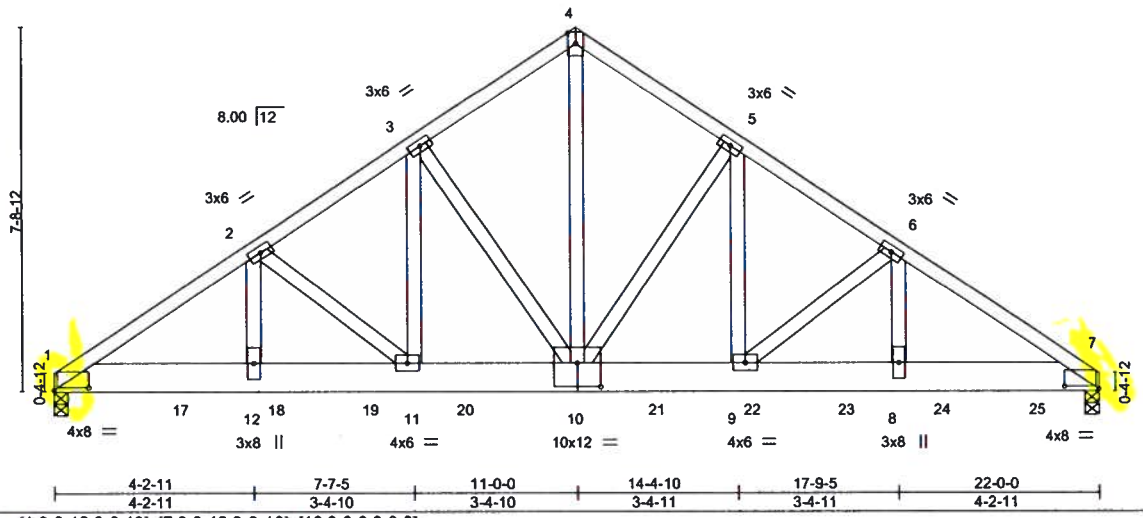
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891730
2268020	T39	COMMON GIRDER	1	3	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:51 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-SGK6ZOsiV?hd9EZAa1wjeOSHJGgkRnlov8V5l9zUPS2

4-2-11	7-7-5	11-0-0	14-4-10	17-9-5	22-0-0
4-2-11	3-4-10	3-4-10	3-4-11	3-4-11	4-2-11

Scale = 1:47.0



4-2-11	7-7-5	11-0-0	14-4-10	17-9-5	22-0-0
4-2-11	3-4-10	3-4-10	3-4-11	3-4-11	4-2-11

Plate Offsets (X,Y)-- [1:0-8-12,0-0-10], [7:0-8-12,0-0-10], [10:0-6-0,0-6-0]

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	0.35	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.20	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 500 lb	FT = 20%

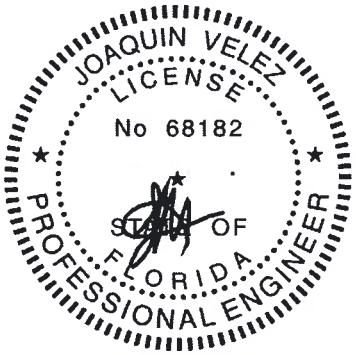
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
4-10: 2x4 SP No.2

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

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=-201(LC 25)
Max Uplift 1=-1966(LC 8), 7=-1889(LC 9)
Max Grav 1=8039(LC 1), 7=7840(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-12007/2929, 2-3=-9594/2357, 3-4=-7522/1901, 4-5=-7522/1903, 5-6=-9663/2365, 6-7=-12025/2904
BOT CHORD 1-12=-2473/9972, 11-12=-2473/9972, 10-11=-1908/7945, 9-10=-1862/8002, 8-9=-2351/9986, 7-8=-2351/9986
WEBS 4-10=-2012/8067, 5-10=-3142/856, 5-9=-879/3632, 6-9=-2551/690, 6-8=-626/2704, 3-10=-3039/842, 3-11=-862/3508, 2-11=-2607/727, 2-12=-667/2767

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
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 3-6-0 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 (jt=lb) 1=1966, 7=1889.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1161 lb down and 301 lb up at 0-8-12, 1341 lb down and 354 lb up at 2-8-12, 1304 lb down and 330 lb up at 4-8-12, 1304 lb down and 330 lb up at 6-8-12, 1306 lb down and 331 lb up at 8-8-12, 1306 lb down and 331 lb up at 10-8-12, 1306 lb down and 331 lb up at 12-8-12, 1306 lb down and 331 lb up at 14-8-12, 1306 lb down and 326 lb up at 16-8-12, and 1306 lb down and 326 lb up at 18-8-12, and 1306 lb down and 326 lb up at 20-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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Date: April 3,2020

LOAD CASE(S) Standard

Continued on page 2

⚠ *WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.*
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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, 1-7=-20
   Concentrated Loads (lb)
   Vert: 10=-1306(B) 14=-1161(B) 17=-1341(B) 18=-1304(B) 19=-1304(B) 20=-1306(B) 21=-1306(B) 22=-1306(B) 23=-1306(B) 24=-1306 25=-1306

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.
2268020	T40	Common Girder	1	2	T19891731

Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54.53 2020 Page 1
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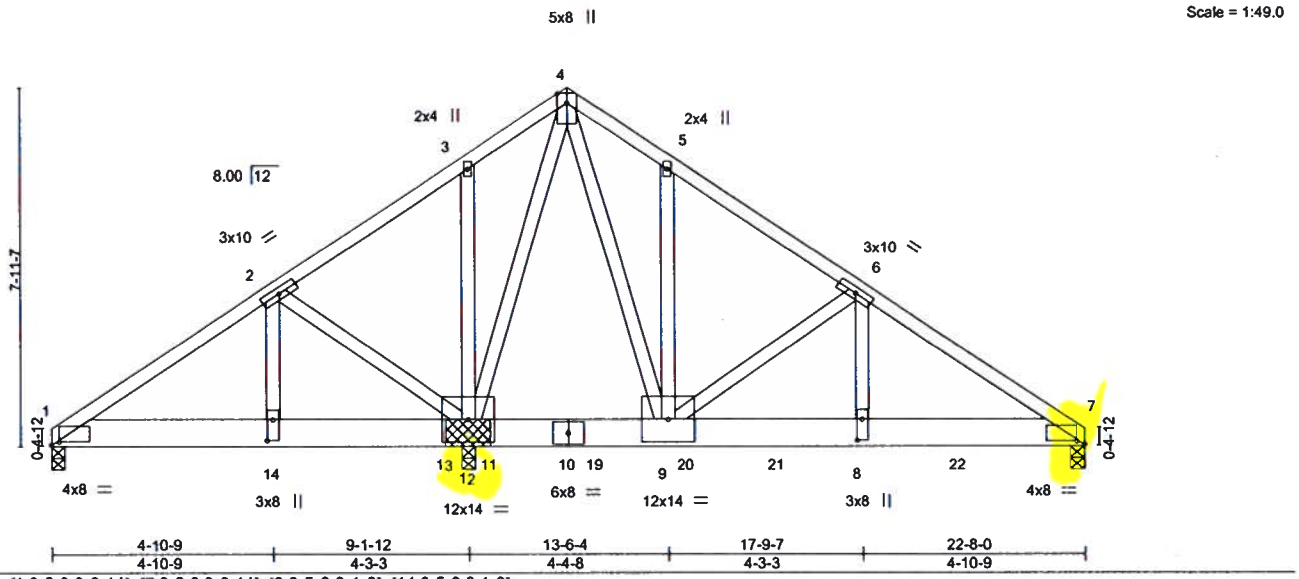

Plate Offsets (X,Y)-- [1:0-2-0,0-0-14], [7:0-2-0,0-0-14], [8:0-5-8,0-1-8], [14:0-5-8,0-1-8]

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	0.31	Vert(LL)	-0.06	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.11	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 356 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 7=0-3-8, 12=(0-3-8 + bearing block) (req. 0-3-12)
Max Horz 1=260(LC 26)
Max Uplift 1=-382(LC 20), 7=-1281(LC 9), 12=-1822(LC 8)
Max Grav 1=237(LC 18), 7=4671(LC 20), 12=6394(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-318/935, 2-3=-264/797, 3-4=-169/736, 4-5=-2302/791, 5-6=-2363/655, 6-7=-5565/1517
BOT CHORD 1-14=-766/432, 12-14=-766/432, 9-12=-206/575, 8-9=-1164/4614, 7-8=-1164/4614
WEBS 4-9=-1464/4825, 5-9=-235/270, 6-9=-3386/1101, 6-8=-922/3528, 4-12=-4024/1089, 3-12=-261/253, 2-12=-326/471, 2-14=-352/196

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 12 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; 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
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 (jt=lb) 1=382, 7=1281, 12=1822.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1306 lb down and 326 lb up at 9-11-4, 1306 lb down and 326 lb up at 11-11-4, 1306 lb down and 326 lb up at 13-11-4, 1306 lb down and 358 lb up at 15-11-4, 1306 lb down and 358 lb up at 17-11-4, and 1306 lb down and 358 lb up at 19-11-4, and 1309 lb down and 355 lb up at 21-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Date: April 3,2020

Continued on page 2

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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, 1-7=-20
   Concentrated Loads (lb)
   Vert: 8=-1306(B) 11=-1306 18=-1309(B) 19=-1306 20=-1306(B) 21=-1306(B) 22=-1306(B)

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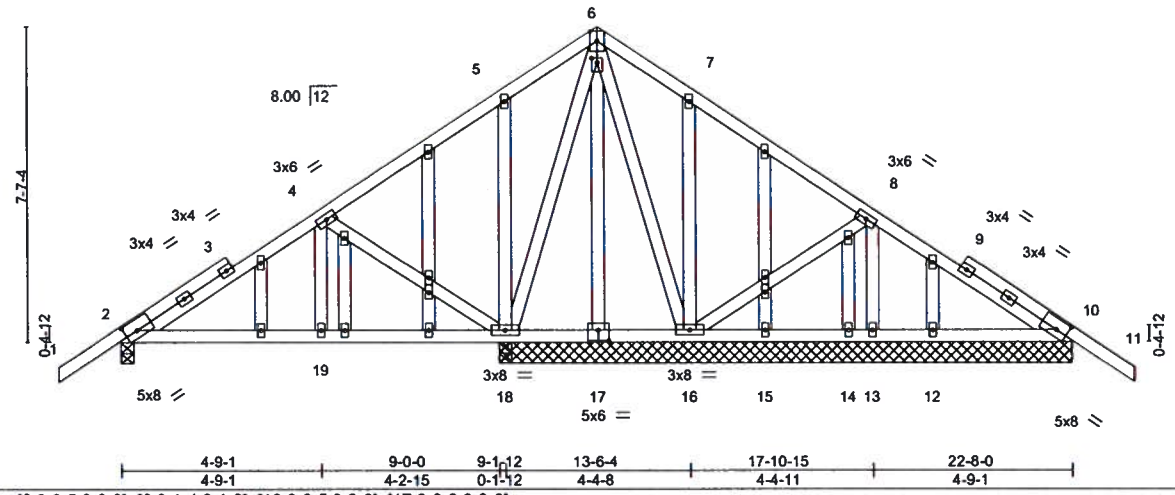
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891732
2268020	T40G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:55 2020 Page 1
ID:FxdLwMo19GTO04agJVl9TyynJJU-L2ZdOmvDZEB2ersxpt?foEc?vt3lNhvNqmTIRwzUPS_

-1-6-0	4-9-1	9-1-12	11-4-0	13-6-4	17-10-15	22-8-0	24-2-0
1-6-0	4-9-1	4-4-11	2-2-4	2-2-4	4-4-11	4-9-1	1-6-0

Scale = 1:53.3



4-9-1	9-0-0	9-1-12	13-6-4	17-10-15	22-8-0
4-9-1	4-2-15	0-1-12	4-4-8	4-4-11	4-9-1

Plate Offsets (X,Y)-- [2:0-3-5,0-3-0], [6:0-1-4,0-1-8], [10:0-3-5,0-3-0], [17:0-3-0,0-3-0]

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	0.25	Vert(LL)	0.02	19-33	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	19-33	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 183 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 ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 2-19,18-19.

REACTIONS. All bearings 13-8-0 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=281(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 13, 15, 12 except 2=-135(LC 12), 10=-124(LC 13), 16=-249(LC 13), 18=-363(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 10, 13, 15, 14, 12, 10 except 2=351(LC 23), 16=390(LC 20), 18=610(LC 1), 18=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-216/260
BOT CHORD 16-18=-263/364
WEBS 7-16=-272/252, 5-18=-274/255, 4-18=-409/548, 4-19=-270/177

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=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left 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) 13, 15, 12 except (jt=lb) 2=135, 10=124, 16=249, 18=363, 10=124.

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Date:
April 3,2020

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891733
2268020	T41	Common	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:56 2020 Page 1
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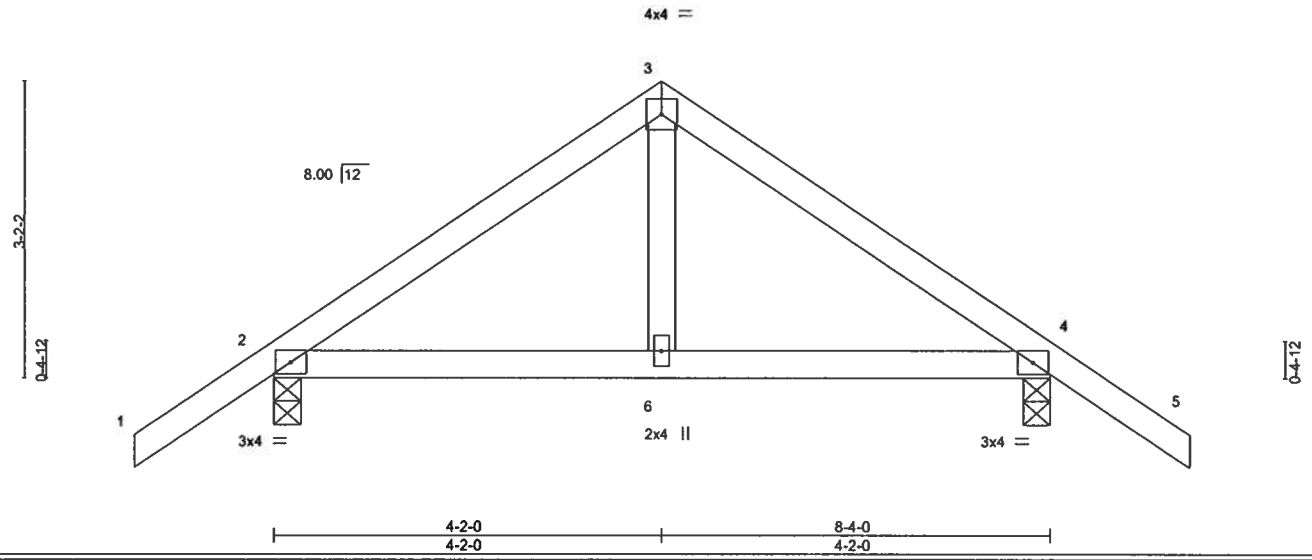
1-6-0	4-2-0	4-2-0	1-6-0

Scale: 1/2"=1"



4-2-0	8-4-0
4-2-0	4-2-0

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	0.20	Vert(LL)	-0.01	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.02	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 37 lb	FT = 20%

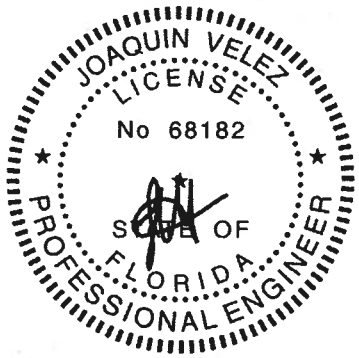
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-129(LC 10)
Max Uplift 2=-187(LC 12), 4=-187(LC 13)
Max Grav 2=389(LC 1), 4=389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-364/164, 3-4=-364/164
BOT CHORD 2-6=-38/264, 4-6=-38/264

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=28ft; 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
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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 4=187.



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April 3,2020

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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 *ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

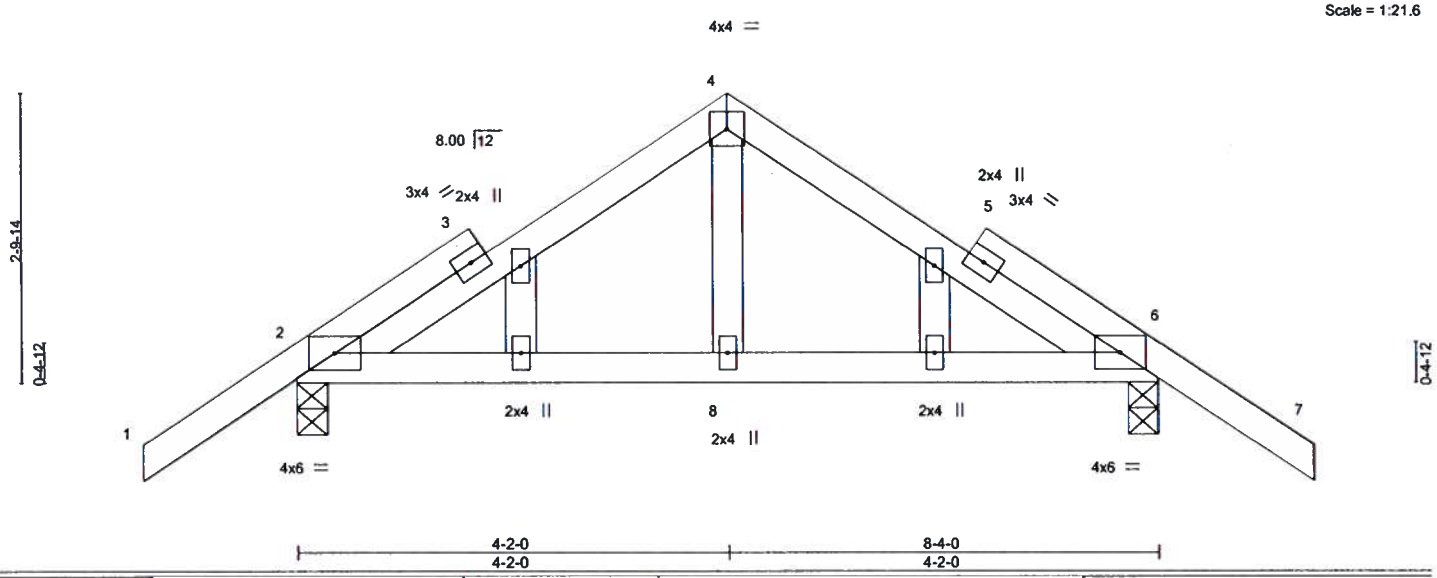
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES. T19891734
2268020	T41G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:57 2020 Page 1
ID:FxdLwMo19GTO04agjVl9TyynJJU-HQhNpRwT5rRmt90KwH17tfiLXgl4reogH3yPUpzUPRy

-1-6-0 1-6-0 | 4-2-0 4-2-0 | 8-4-0 4-2-0 | 9-10-0 1-6-0

Scale = 1:21.6



4-2-0 4-2-0 | 8-4-0 4-2-0

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	0.24	Vert(LL)	-0.01	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.02	8-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

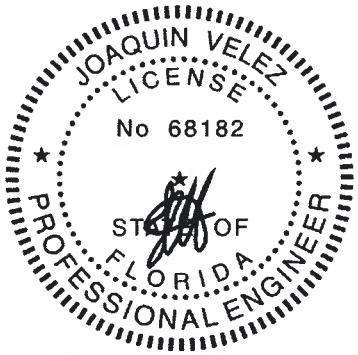
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=117(LC 11)
Max Uplift 2=-191(LC 12), 6=-191(LC 13)
Max Grav 2=386(LC 1), 6=386(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-313/134, 4-6=-309/132
BOT CHORD 2-8=-113/458, 6-8=-113/458

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=28ft; 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
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) Gable studs spaced at 2-0-0 oc.
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 3-6-0 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 (jt=lb) 2=191, 6=191.



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Date:
April 3,2020

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HANDY RES.	T19891735
2268020	TFG01	FLOOR	1	2	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 3 13:54:57 2020 Page 1
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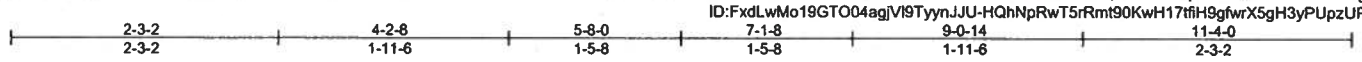

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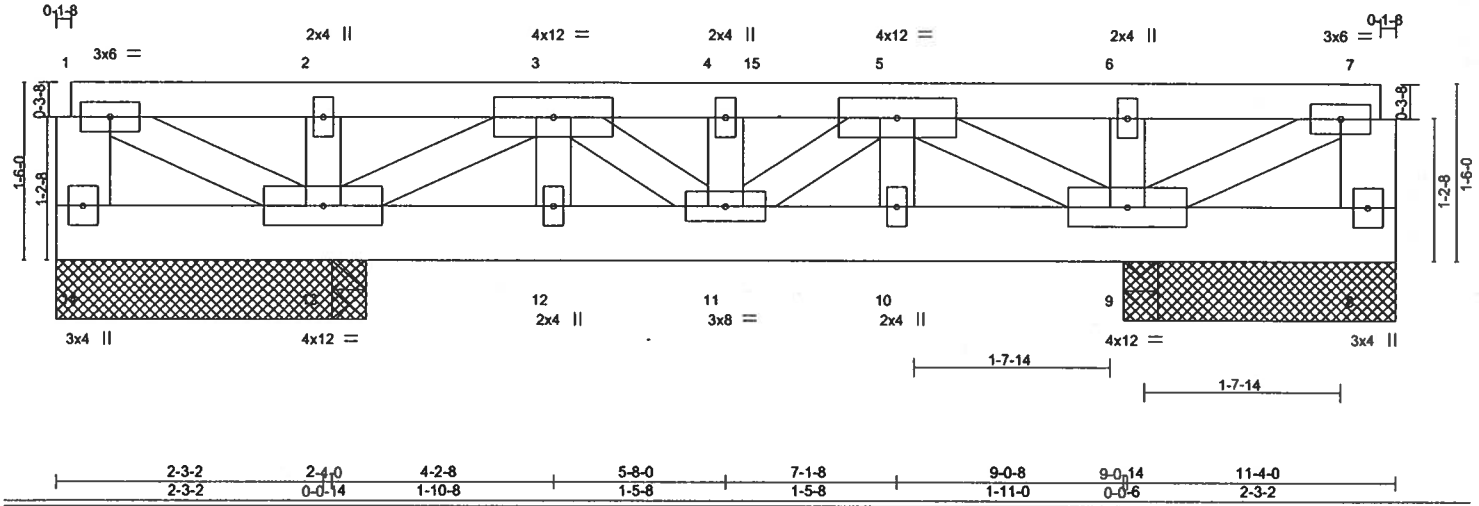


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.02	11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.03	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 134 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
1-14,7-8: 2x6 SP No.2

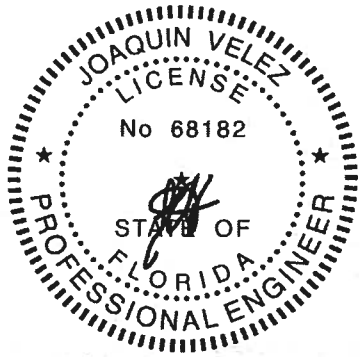
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 2-7-8 except (jt=length) 8=2-3-8, 9=2-3-8, 9=2-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 14=-715(LC 4), 8=-718(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 14 except 13=3202(LC 1), 13=3202(LC 1), 9=5629(LC 4), 9=5617(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-188/507, 1-2=0/1034, 2-3=0/1034, 3-4=-2390/0, 4-5=-2390/0, 5-6=0/1106, 6-7=0/1106, 7-8=0/411
BOT CHORD 12-13=0/1169, 11-12=0/1169, 10-11=0/2568, 9-10=0/2568
WEBS 1-13=-1088/0, 2-13=-936/0, 3-13=-2544/0, 3-12=-297/0, 3-11=0/1564, 4-11=-510/0, 5-10=-740/0, 5-9=-4242/0, 6-9=-2119/0, 7-9=-1123/0

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced floor live loads have been considered for this design.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 715 lb uplift at joint 14 and 718 lb uplift at joint 8.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-15=-375, 7-15=-235, 8-14=-10
Concentrated Loads (lb)
Vert: 5=-2779 6=-1407



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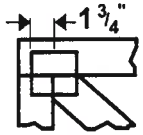
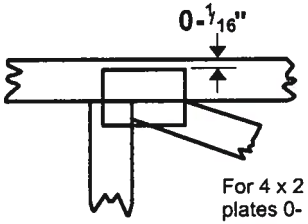
Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

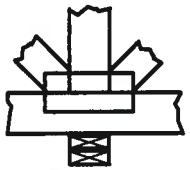
4 x 4

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

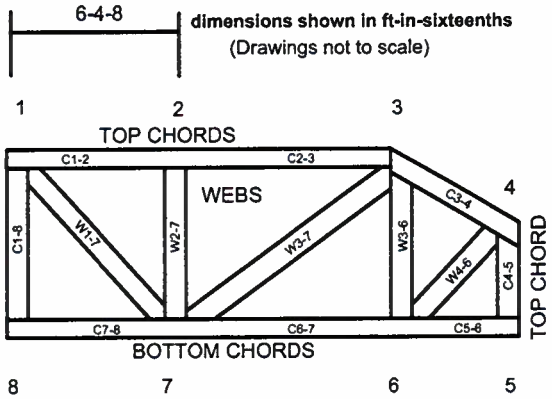


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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



JOINTS ARE GENERALLY NUMBERED/LETTERED 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®

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

AUGUST 1, 2016	T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY	MII-T-BRACE 2

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Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

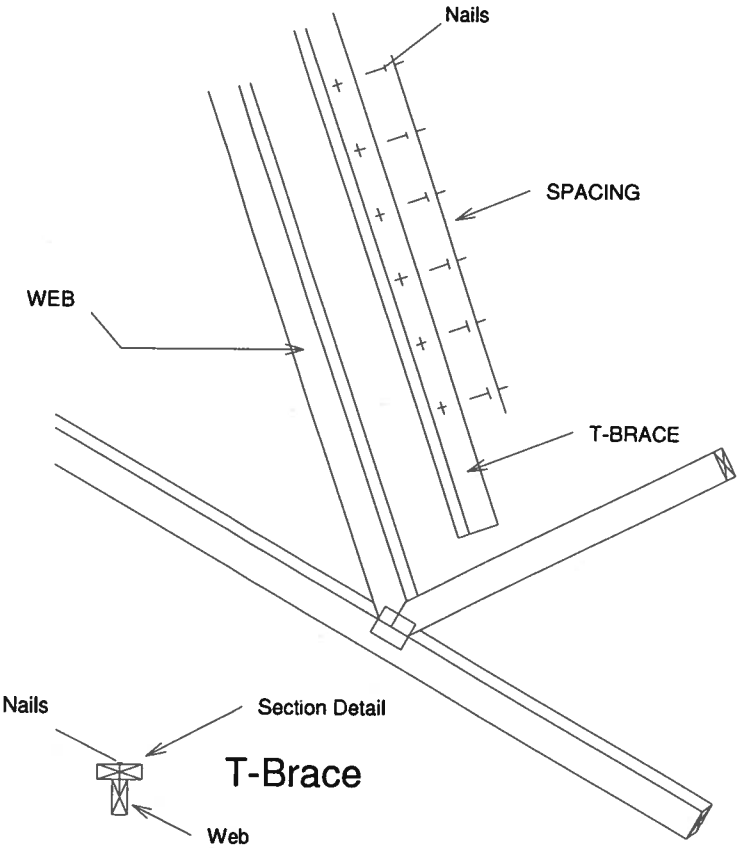
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

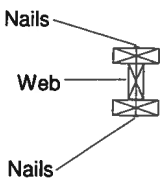
Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

	Brace Size for One-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

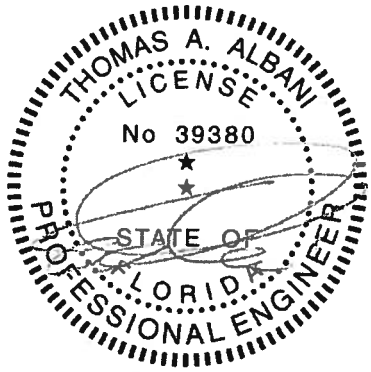
	Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.





I-Brace



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Date:
February 12, 2018

AUGUST 1, 2016	SCAB-BRACE DETAIL	MII-SCAB-BRACE

MiTek USA, Inc.
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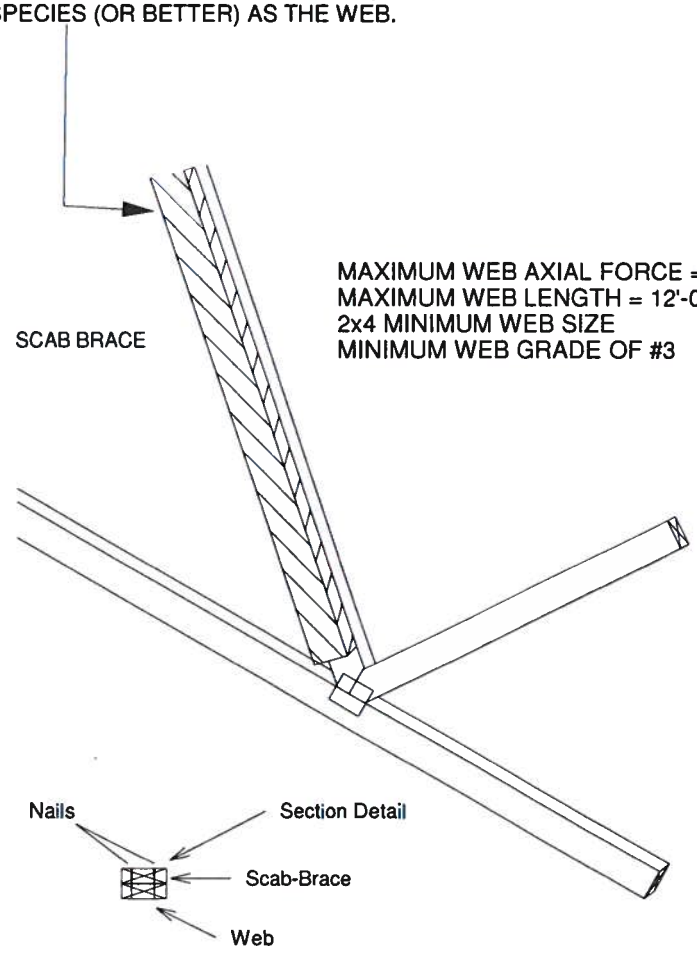
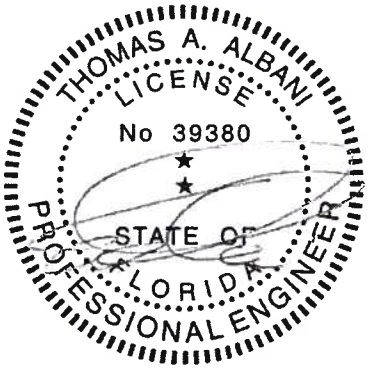
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APLICABLE WHEN BRACING IS *** REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x___ SCAB TO ONE FACE OF WEB WITH
2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
SCAB MUST BE THE SAME GRADE, SIZE AND
SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



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February 12, 2018

AUGUST 1, 2016	STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)	MII-REP05

MiTek USA, Inc.

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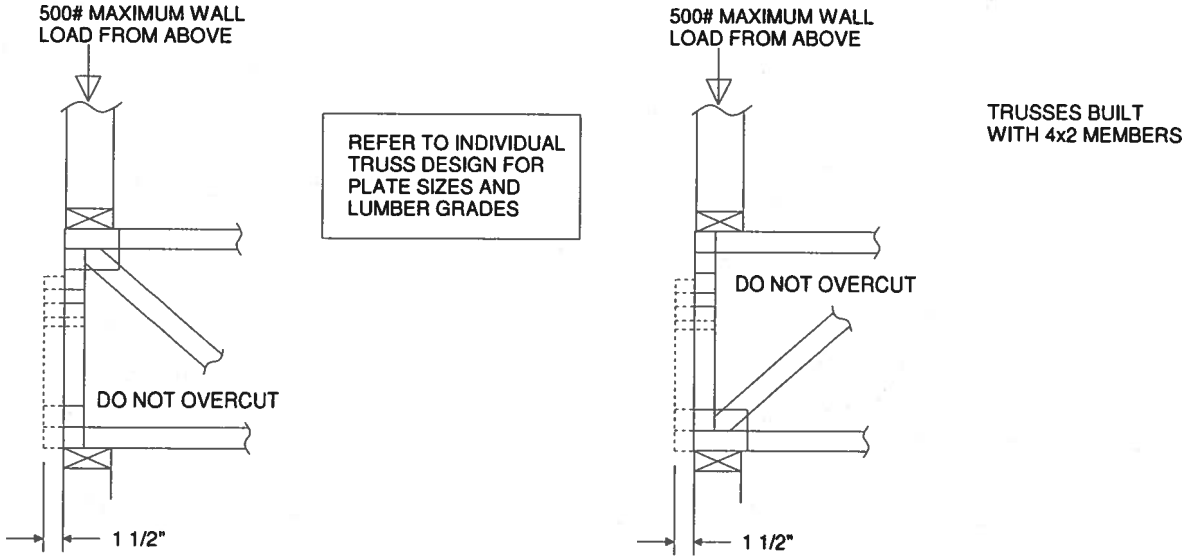
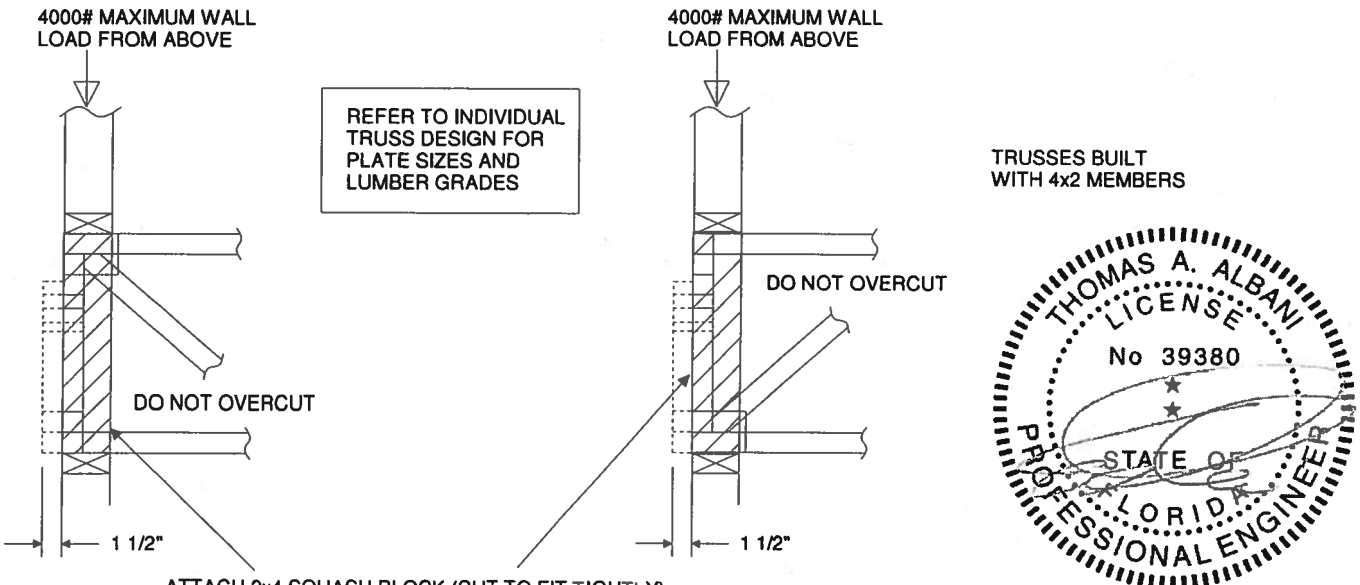
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





ATTACH 2x4 SQUASH BLOCK (CUT TO FIT TIGHTLY) TO BOTH SIDES OF THE TRUSS AS SHOWN WITH 10d (0.131" X 3") NAILS SPACED 3" O.C.

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AUGUST 1, 2016	Standard Gable End Detail	MII-GE130-D-SP

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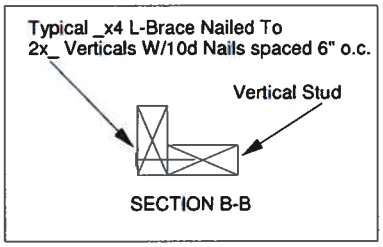
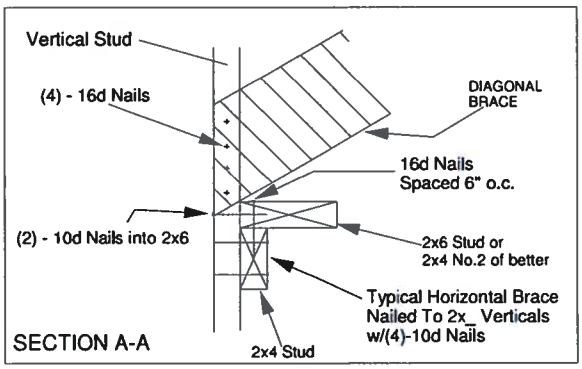
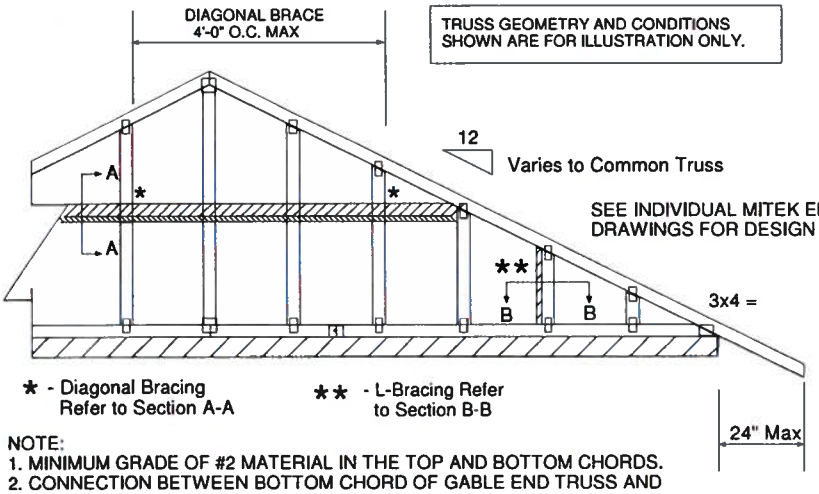






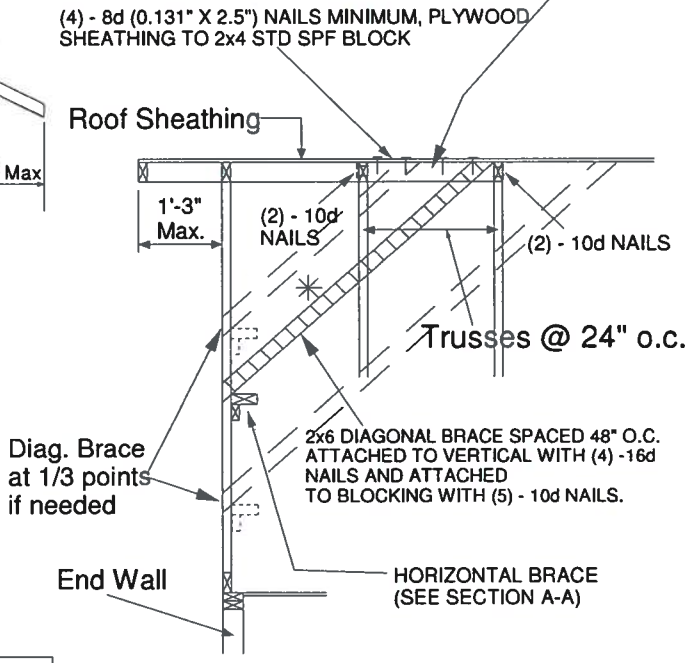
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



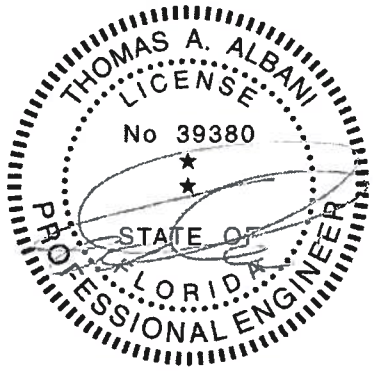
NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE D
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

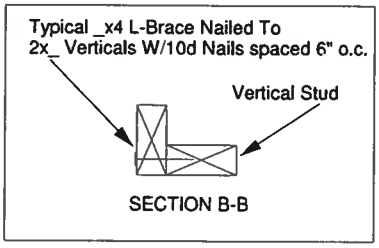
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

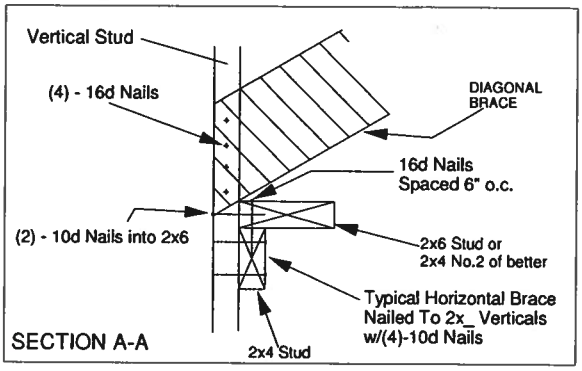


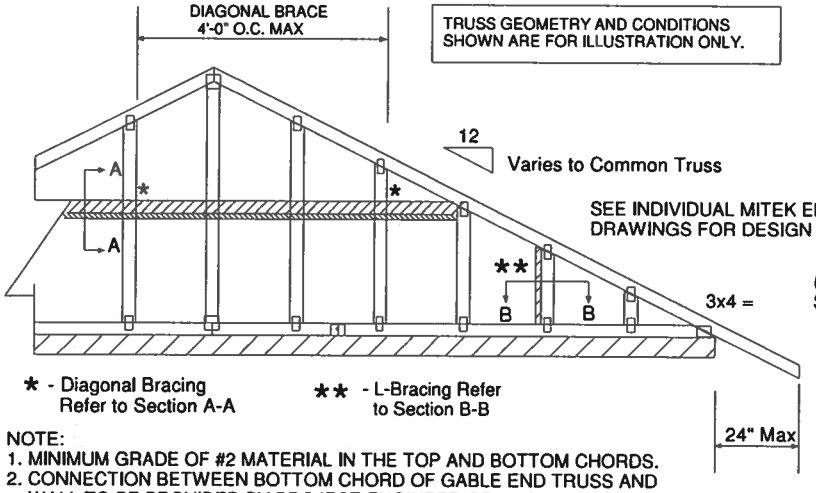
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 12, 2018

AUGUST 1, 2016	Standard Gable End Detail	MII-GE130-SP

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate







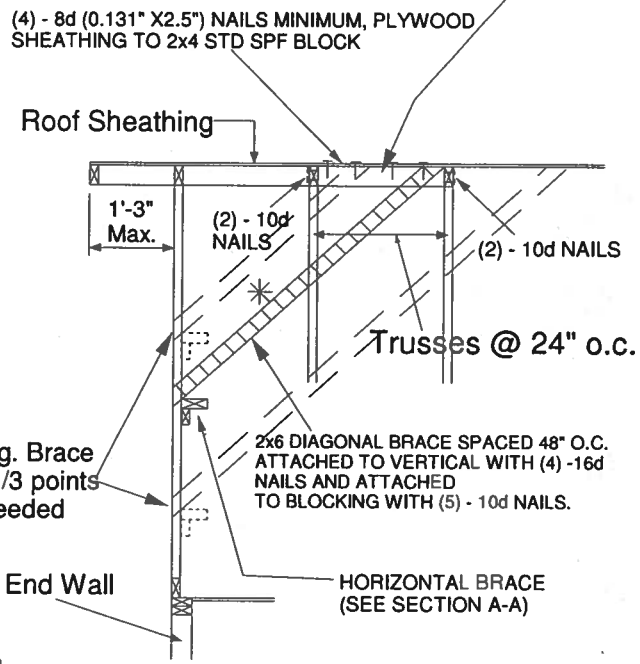
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



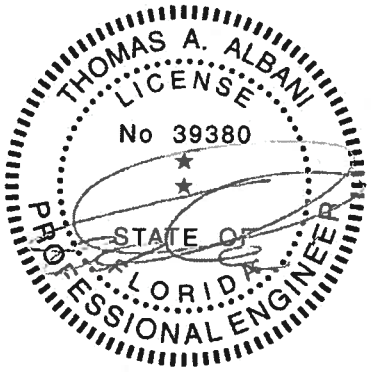
NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.

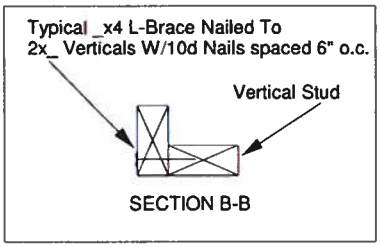


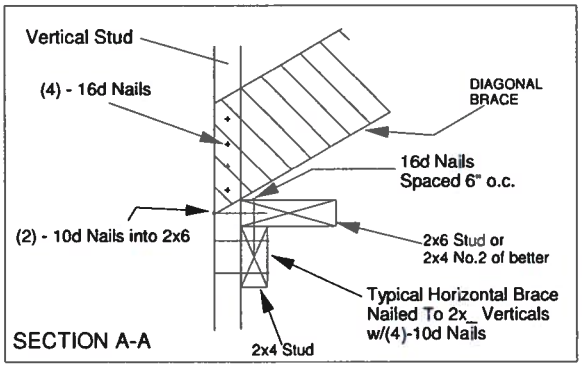
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 12, 2018

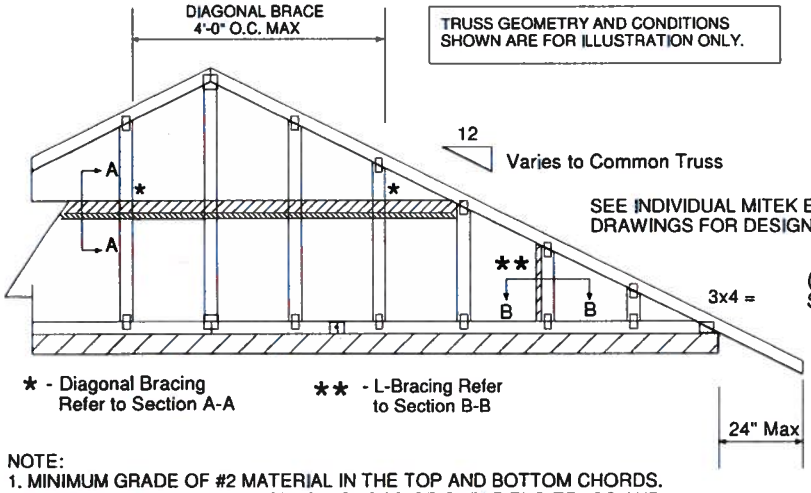
JANUARY 6, 2017	Standard Gable End Detail	MII-GE140-001

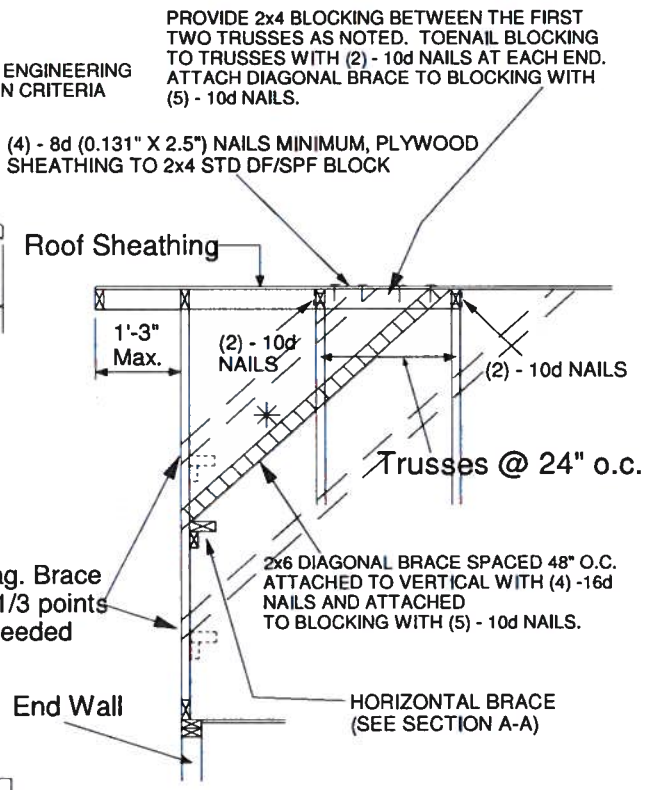
MiTek USA, Inc. Page 1 of 2

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate









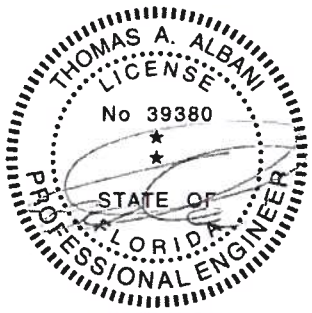
NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



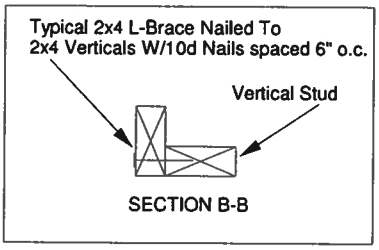
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 19, 2018

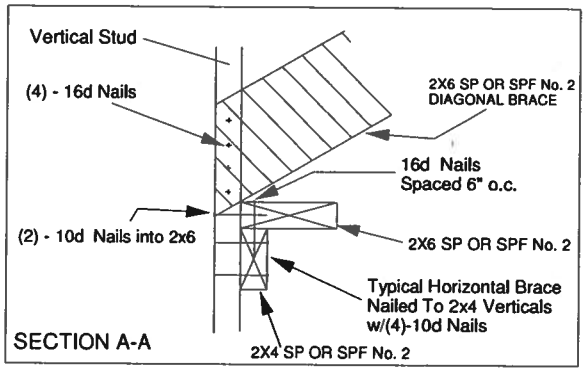
AUGUST 1, 2016	Standard Gable End Detail	MII-GE170-D-SP

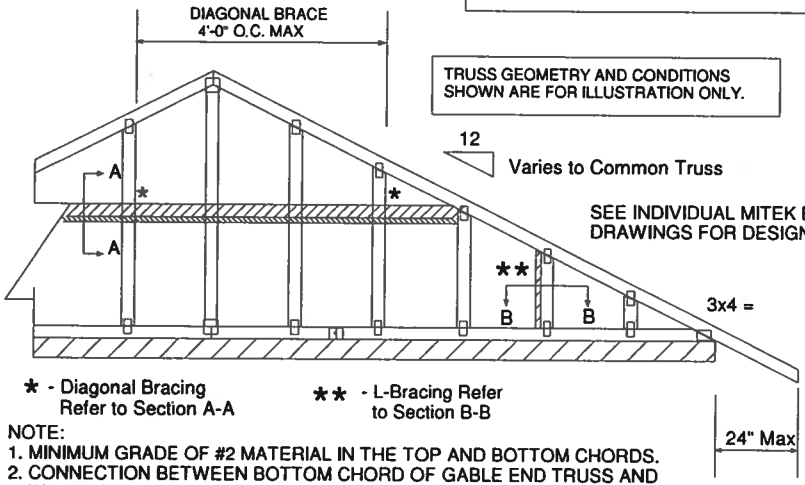
MiTek USA, Inc.

MiTek USA, Inc.

ENGINEERED BY TRENCO
A MiTek Affiliate







TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

12 Varies to Common Truss

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

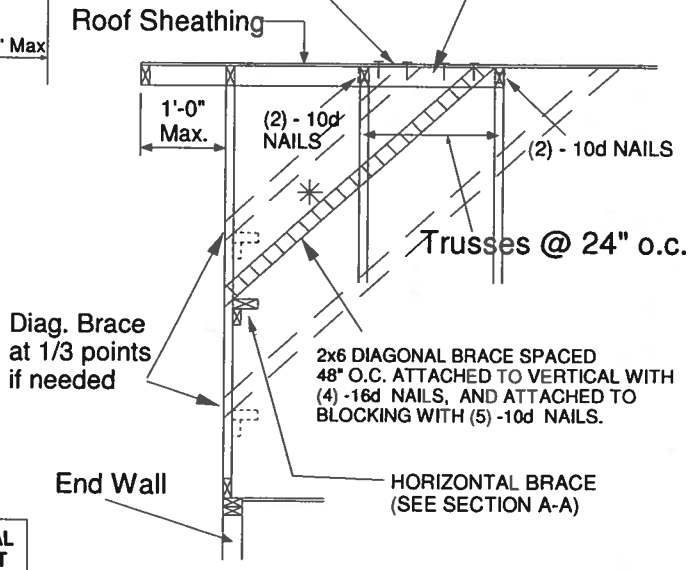
* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

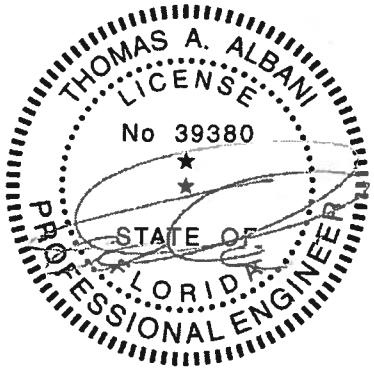


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 170 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.

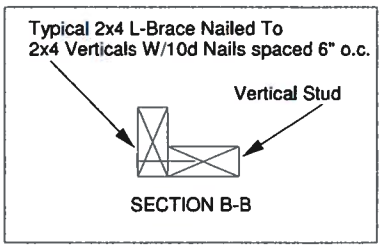


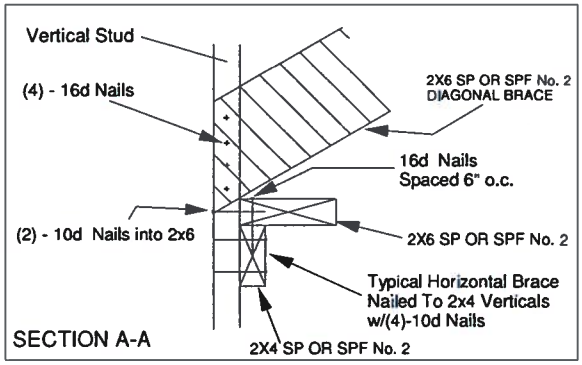
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 12, 2018

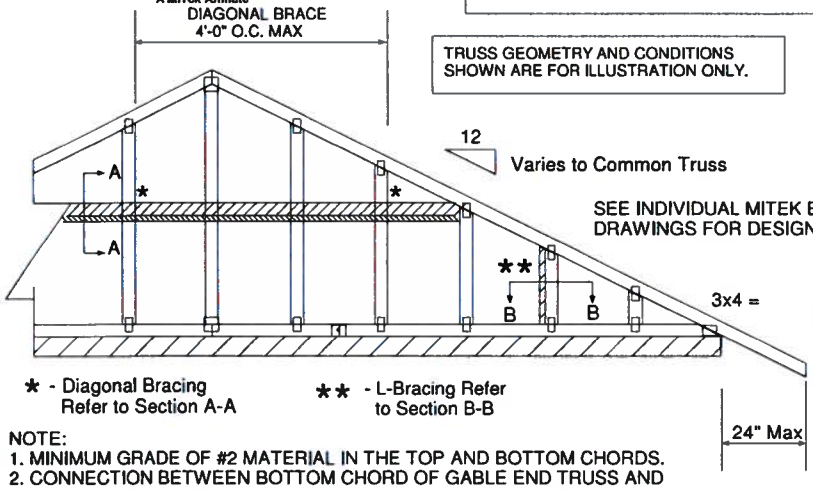
AUGUST 1, 2016	Standard Gable End Detail	MII-GE180-D-SP

MiTek USA, Inc.

ENGINEERED BY TRENCO
A MiTek Affiliate







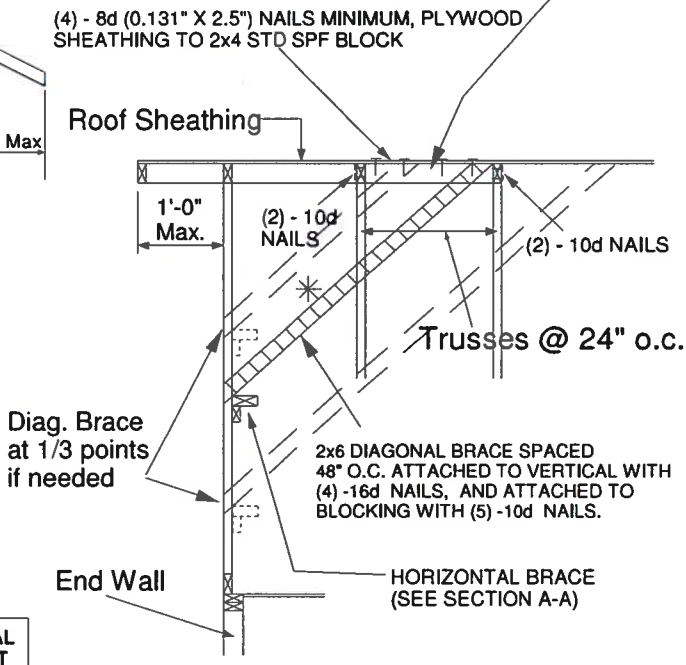
TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.



NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
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6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
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9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
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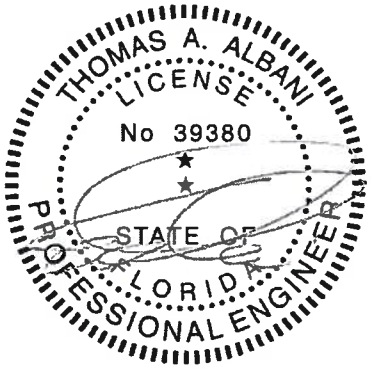
11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET
EXPOSURE D
ASCE 7-10 180 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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Date:
February 12, 2018

AUGUST 1, 2016	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	MII-PIGGY-7-10

MiTek USA, Inc.

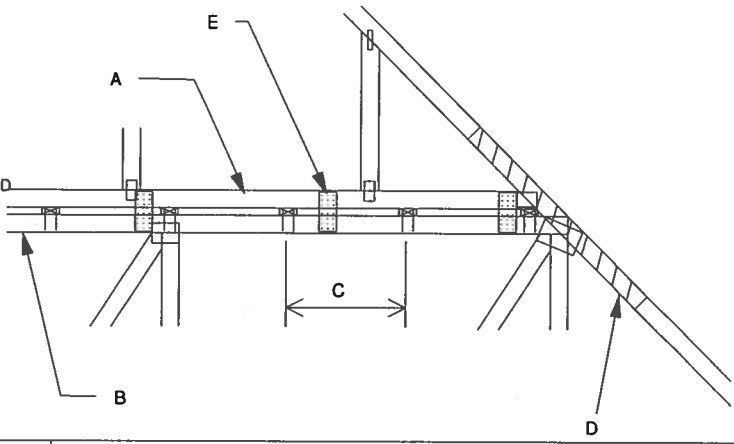
ENGINEERED BY TRENCO
A MiTek Affiliate

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
MAX MEAN ROOF HEIGHT = 30 FEET
MAX TRUSS SPACING = 24 " O.C.
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-10
DURATION OF LOAD INCREASE : 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X___ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

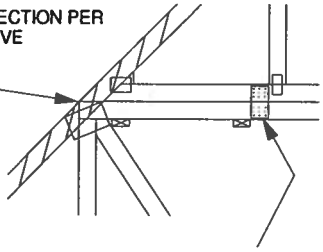
E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



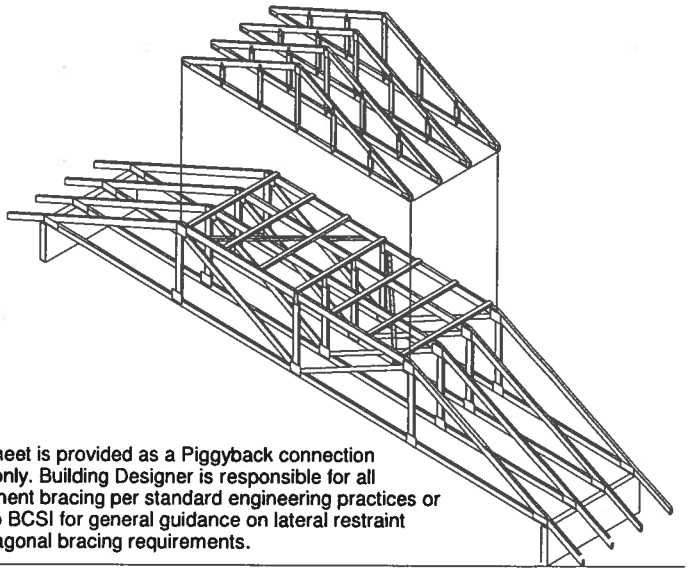
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER NOTE D ABOVE

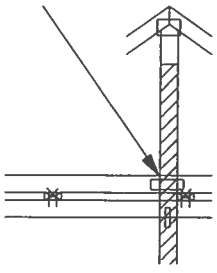


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



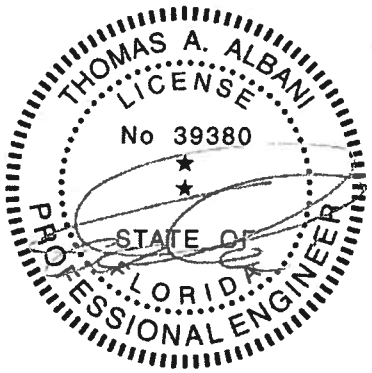
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 x___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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February 12, 2018

AUGUST 1, 2016	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	MII-PIGGY-ALT 7-10

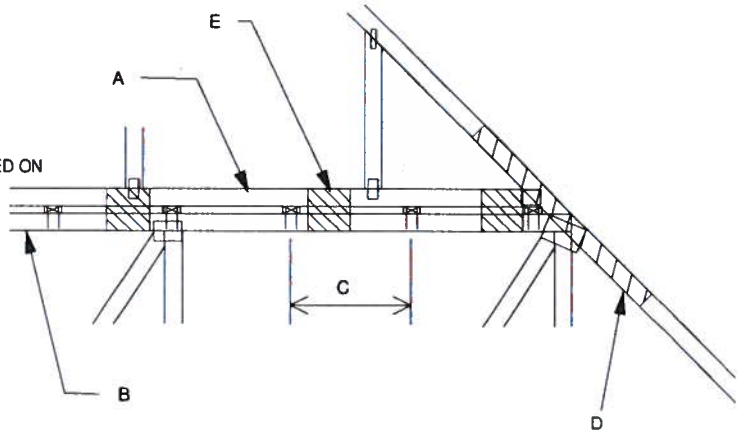
MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
MAX MEAN ROOF HEIGHT = 30 FEET
MAX TRUSS SPACING = 24 " O.C.
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-10
DURATION OF LOAD INCREASE : 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

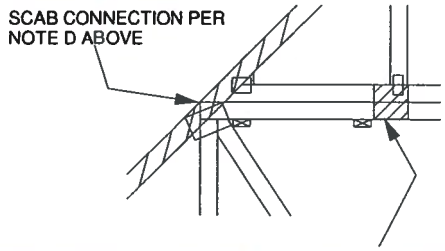
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0(0.131" X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
D - 2 X __ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

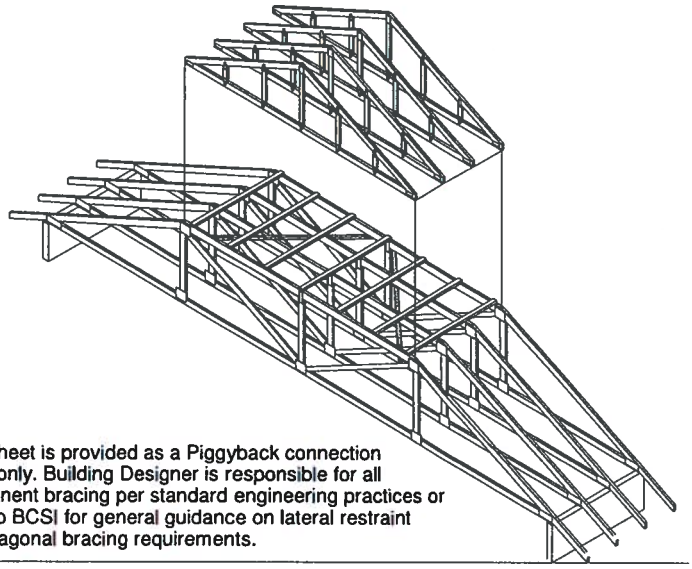


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

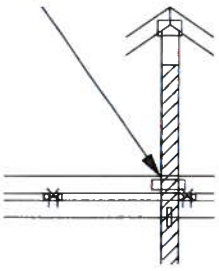


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



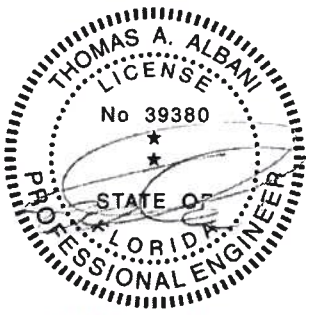
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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January 19, 2018

AUGUST 1, 2016	STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES	MII-REP01A1

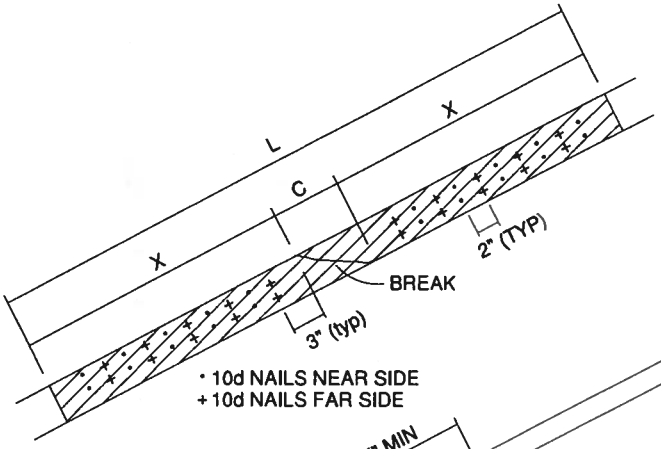
MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

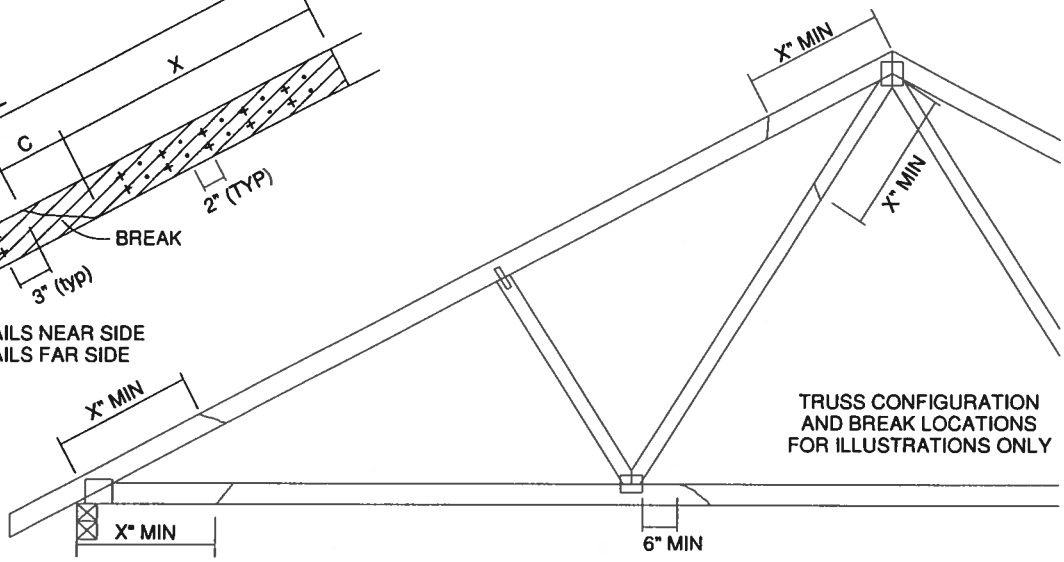
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:
L = (2) X + C

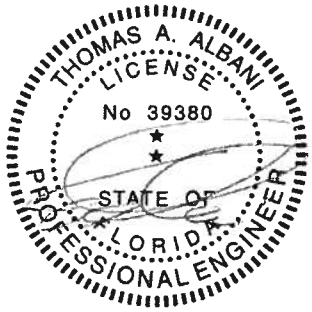




THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:
1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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AUGUST 1, 2016	LATERAL TOE-NAIL DETAIL	MII-TOENAIL_SP

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

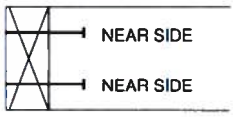
	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

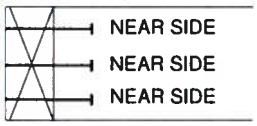
EXAMPLE:
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

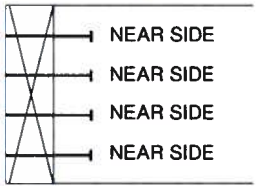
SIDE VIEW
(2x3)
2 NAILS

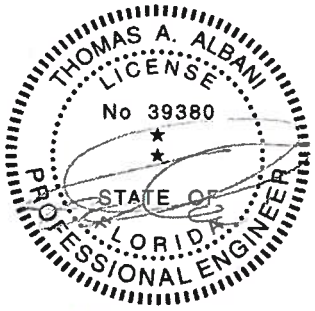


SIDE VIEW
(2x4)
3 NAILS



SIDE VIEW
(2x6)
4 NAILS





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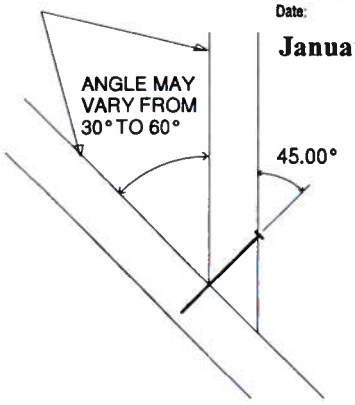
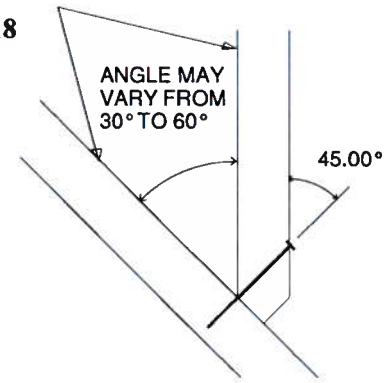
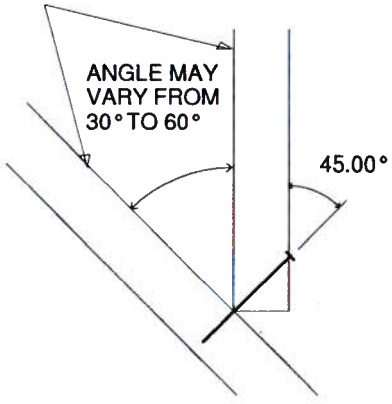






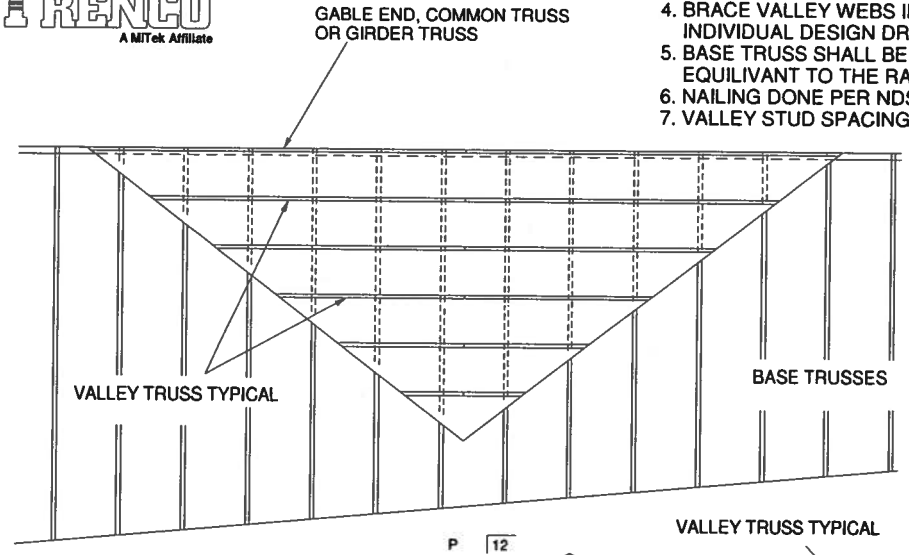
AUGUST 1, 2016	TRUSSED VALLEY SET DETAIL	MII-VALLEY HIGH WIND1

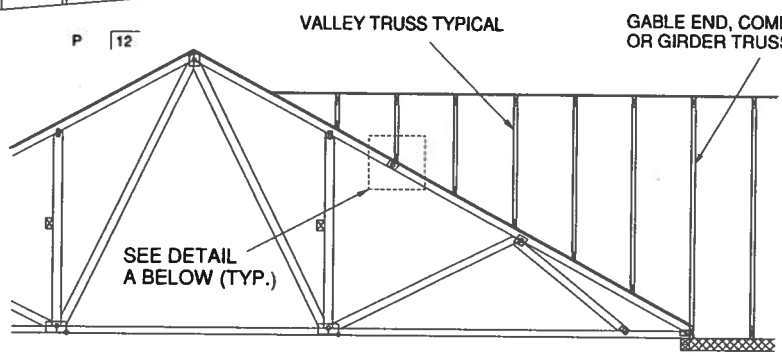
MiTek USA, Inc. Page 1 of 1

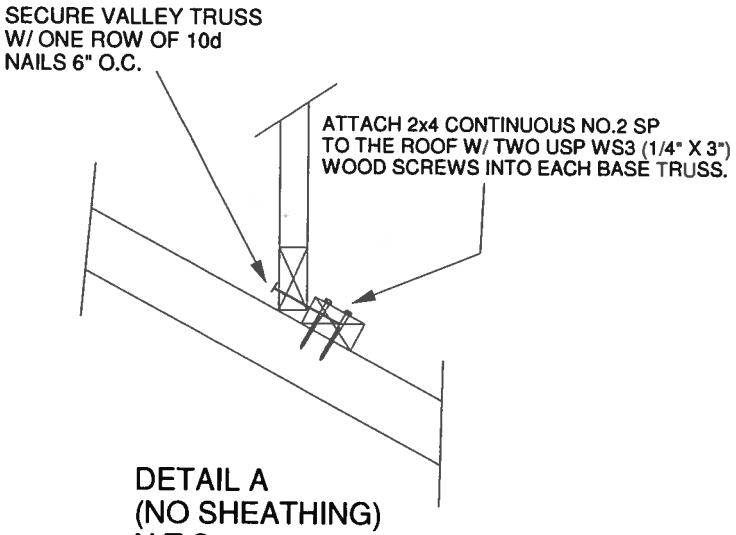
MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
   DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
   SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
   INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING
   EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

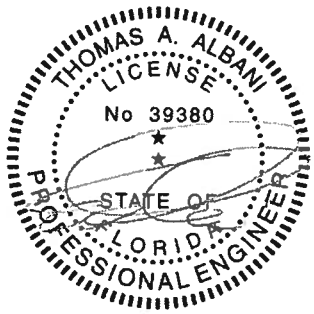






DETAIL A
(NO SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES



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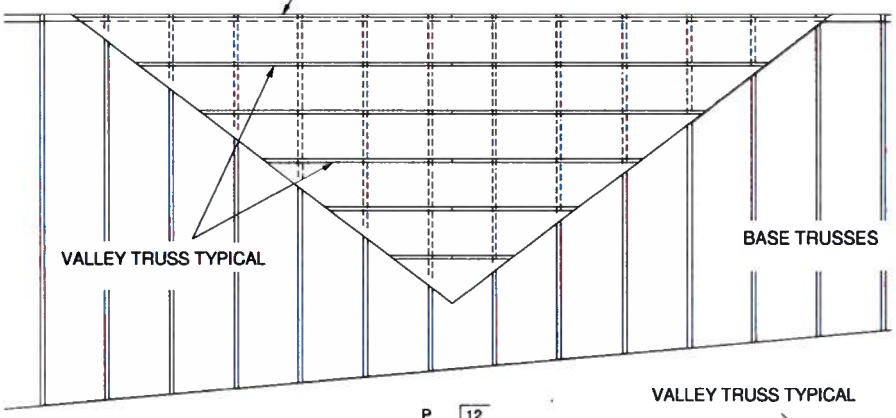
January 19, 2018

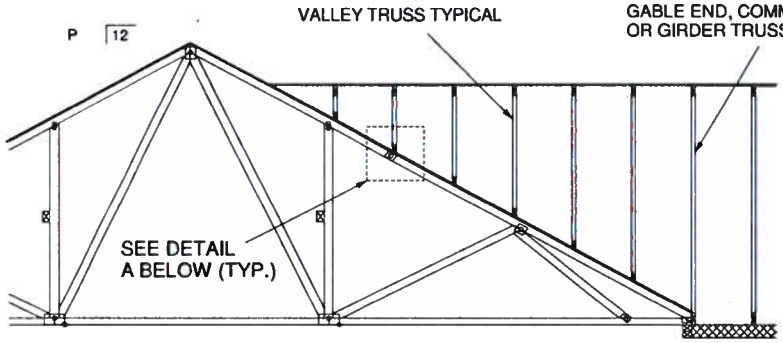
AUGUST 1, 2016	TRUSSED VALLEY SET DETAIL	MII-VALLEY HIGH WIND2

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

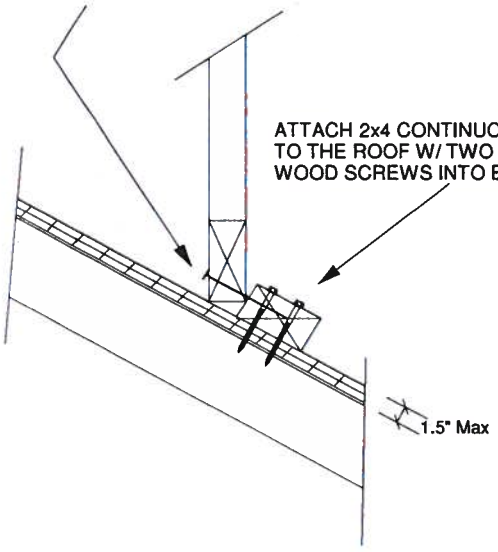
GENERAL SPECIFICATIONS

1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

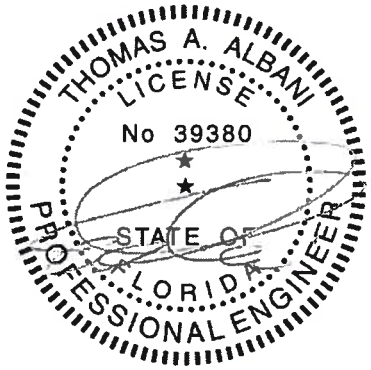




SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES



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AUGUST 1, 2016	TRUSSED VALLEY SET DETAIL	MII-VALLEY SP

MiTek USA, Inc. Page 1 of 1

MiTek USA, Inc.

ENGINEERED BY TRENCO
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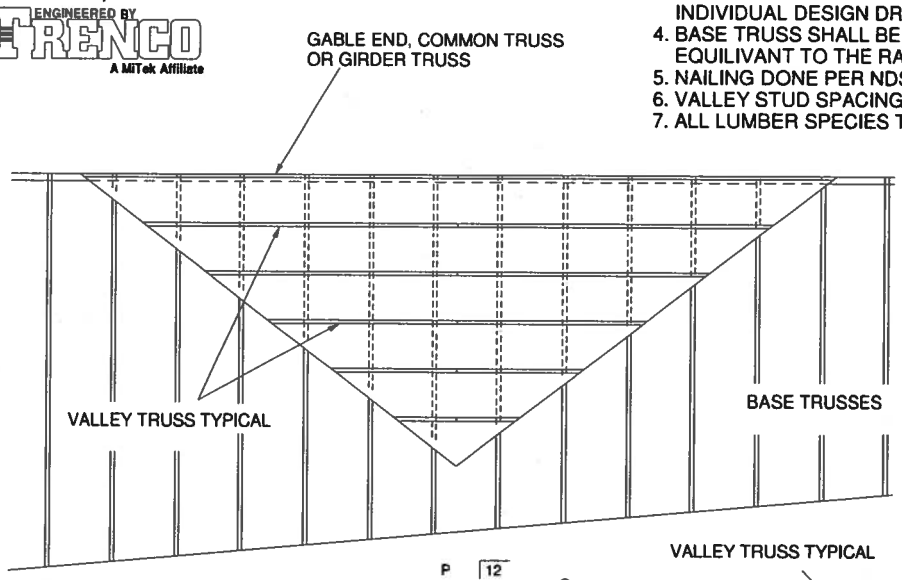
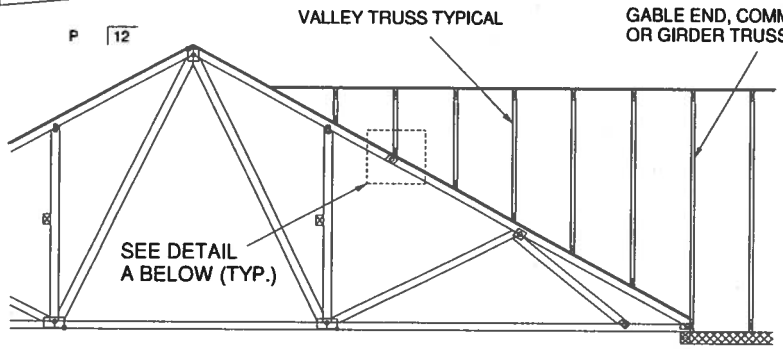
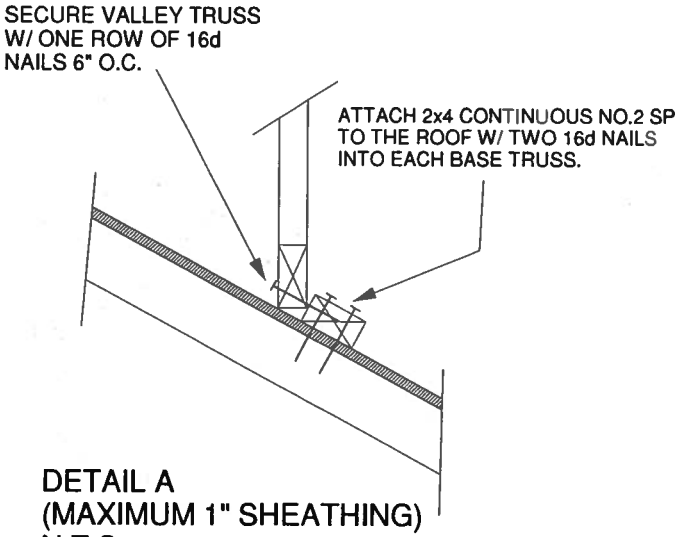
GENERAL SPECIFICATIONS

1. NAIL SIZE 16d (0.131" X 3.5")
2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
5. NAILING DONE PER NDS - 01
6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
7. ALL LUMBER SPECIES TO BE SP.

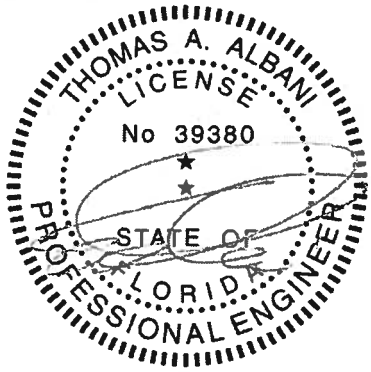






DETAIL A
(MAXIMUM 1" SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH
WIND DESIGN PER ASCE 7-10 150 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12
CATEGORY II BUILDING
EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES



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AUGUST 1, 2016	TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)	MII-VALLEY

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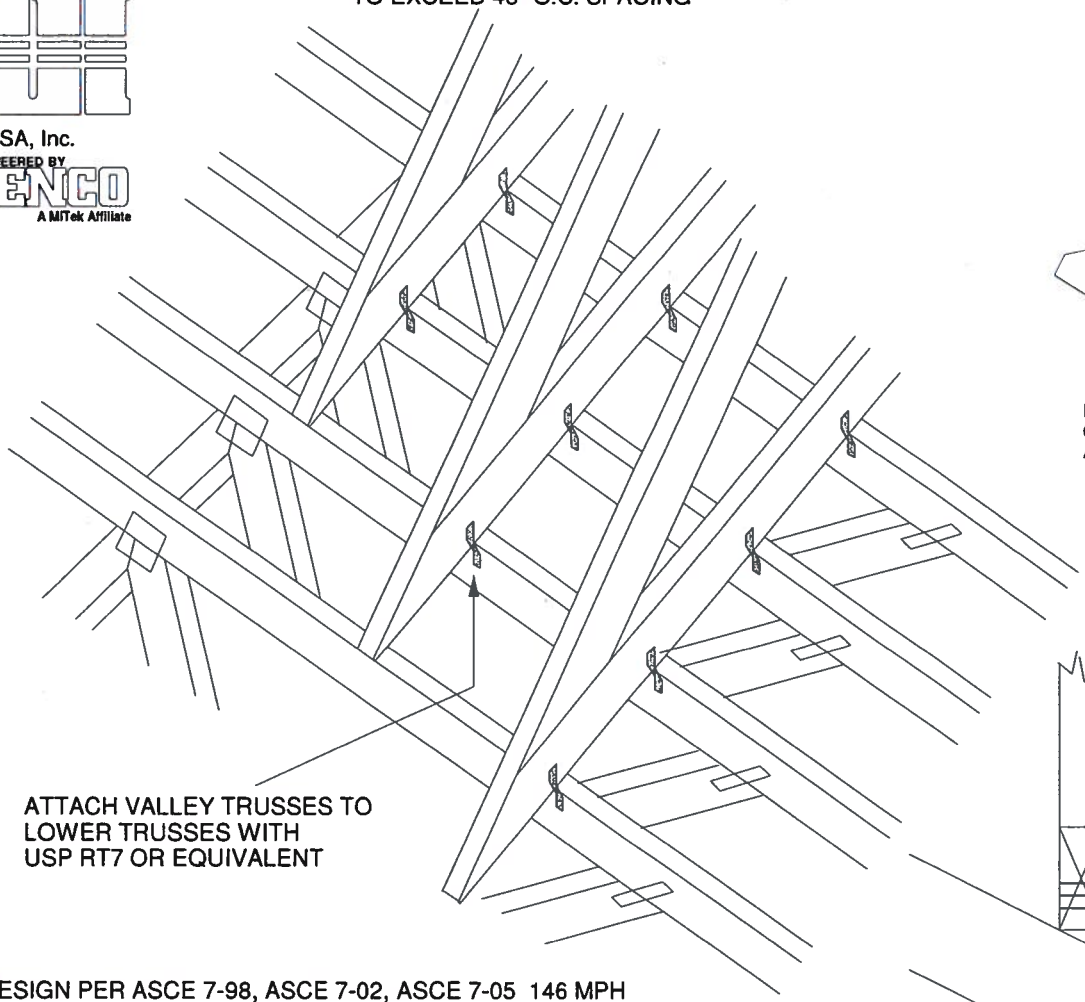
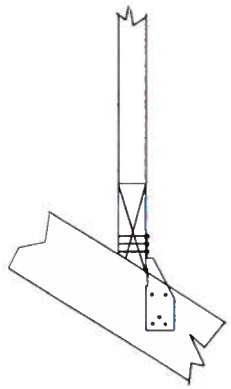
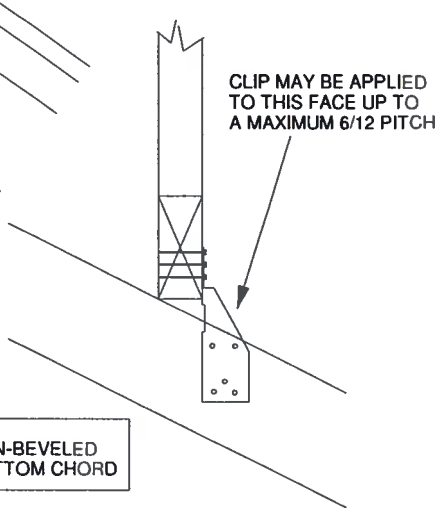
NOTE: VALLEY STUD SPACING NOT TO EXCEED 48" O.C. SPACING



ATTACH VALLEY TRUSSES TO LOWER TRUSSES WITH USP RT7 OR EQUIVALENT



FOR BEVELED BOTTOM CHORD, CLIP MAY BE APPLIED TO EITHER FACE



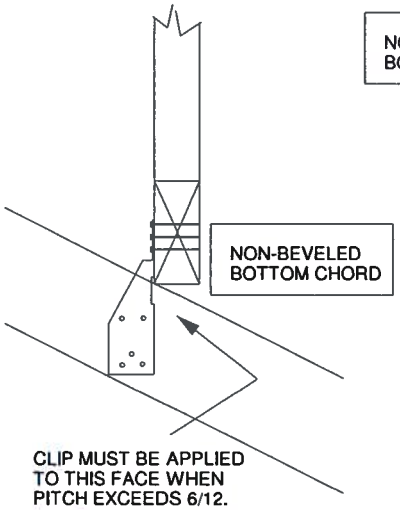
CLIP MAY BE APPLIED TO THIS FACE UP TO A MAXIMUM 6/12 PITCH

NON-BEVELED BOTTOM CHORD

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
WIND DURATION OF LOAD INCREASE : 1.6
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)

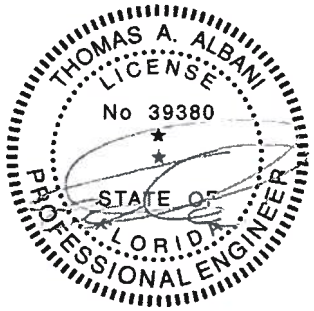
SUPPORTING TRUSSES DIRECTLY UNDER VALLEY TRUSSES MUST BE DESIGNED WITH A MAXIMUM UNBRACED LENGTH OF 2'-10" ON AFFECTED TOP CHORDS.

NOTES:
- SHEATHING APPLIED AFTER INSTALLATION OF VALLEY TRUSSES
- THIS DETAIL IS NOT APPLICABLE FOR SPF-S SPECIES LUMBER.



NON-BEVELED BOTTOM CHORD

CLIP MUST BE APPLIED TO THIS FACE WHEN PITCH EXCEEDS 6/12. (MAXIMUM 12/12 PITCH)



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AUGUST 1, 2016	Standard Gable End Detail	MII-GE146-001

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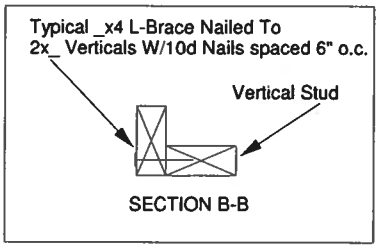
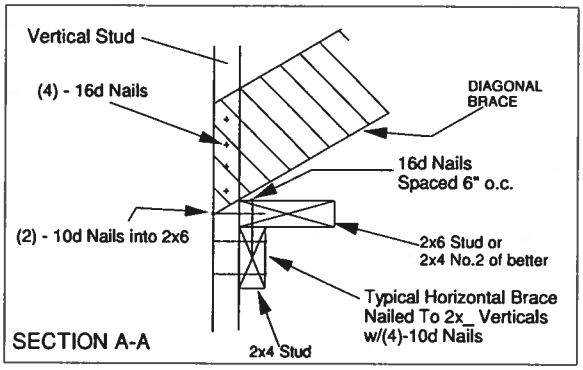
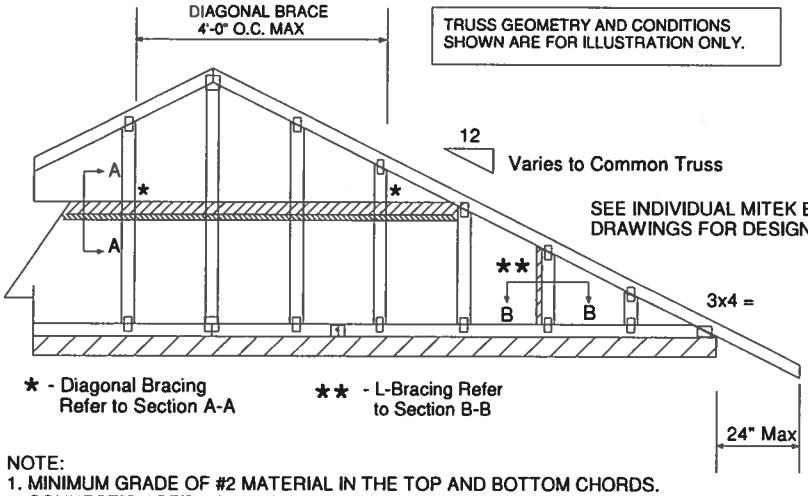






TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

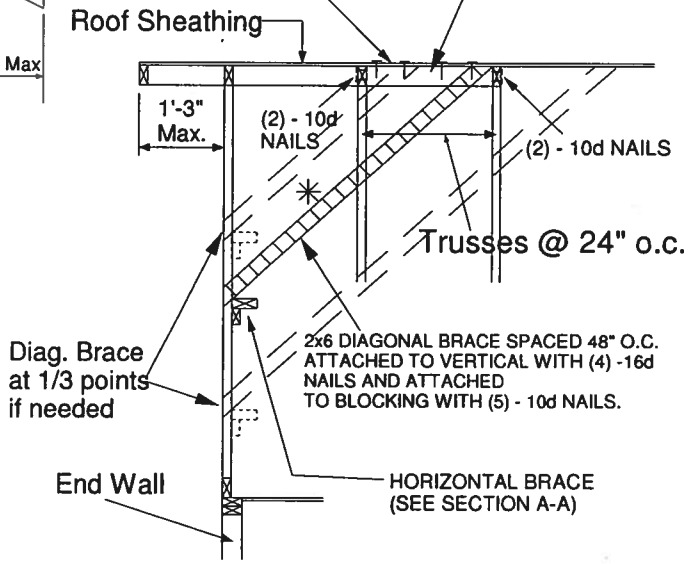
SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

* - Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK



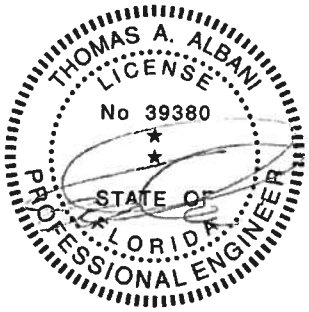
NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 146 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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OCTOBER 5, 2016	REPLACE BROKEN OVERHANG	MII-REP13B

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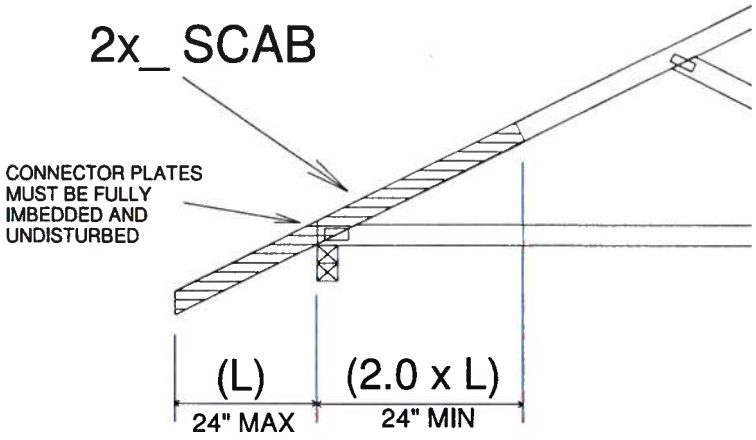
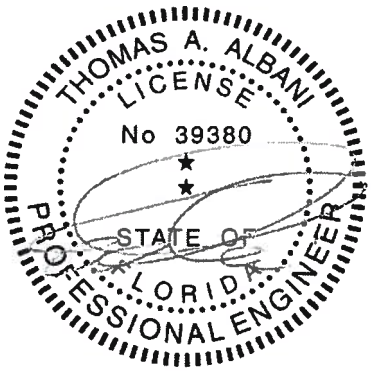
TRUSS CRITERIA:
LOADING: 40-10-0-10
DURATION FACTOR: 1.15
SPACING: 24" O.C.
TOP CHORD: 2x4 OR 2x6
PITCH: 4/12 - 12/12
HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL
END BEARING CONDITION

NOTES:
1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



IMPORTANT
This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.
Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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AUGUST 1, 2016	LATERAL BRACING RECOMMENDATIONS	MII-STRGBCK

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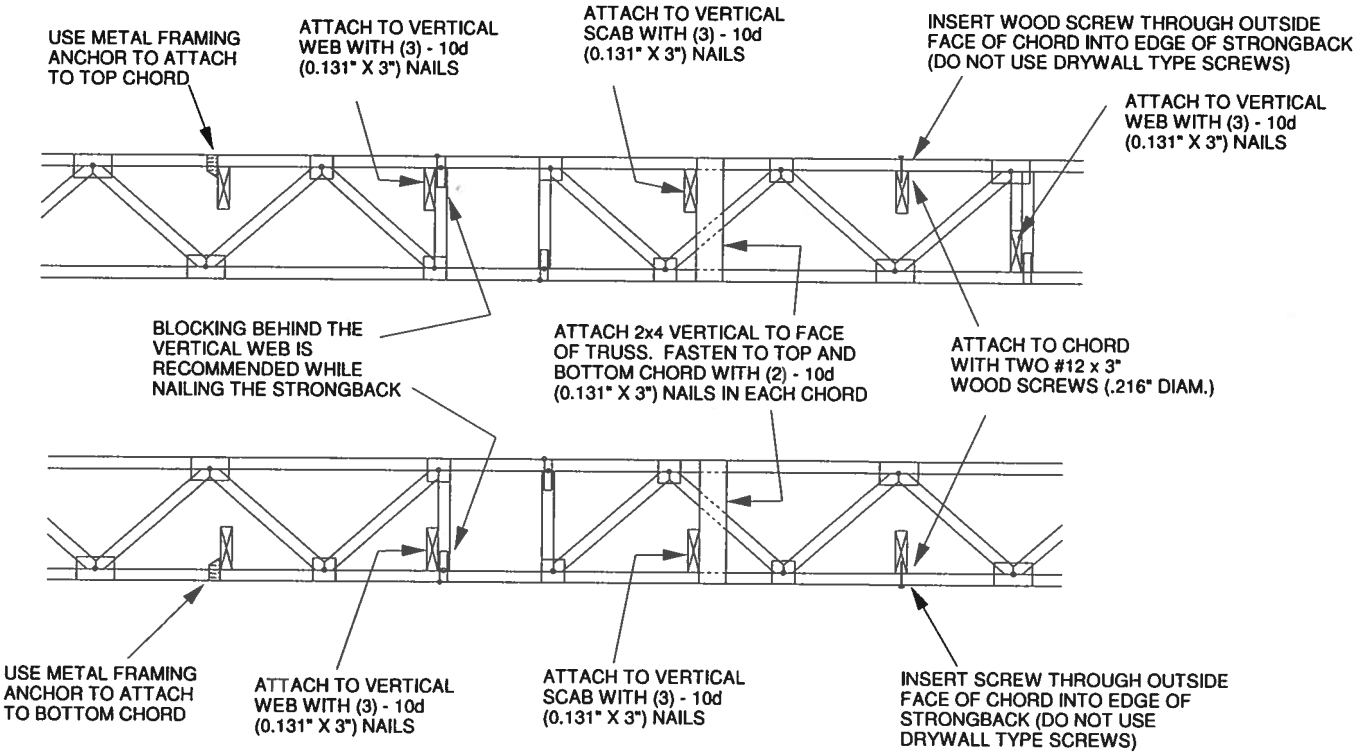
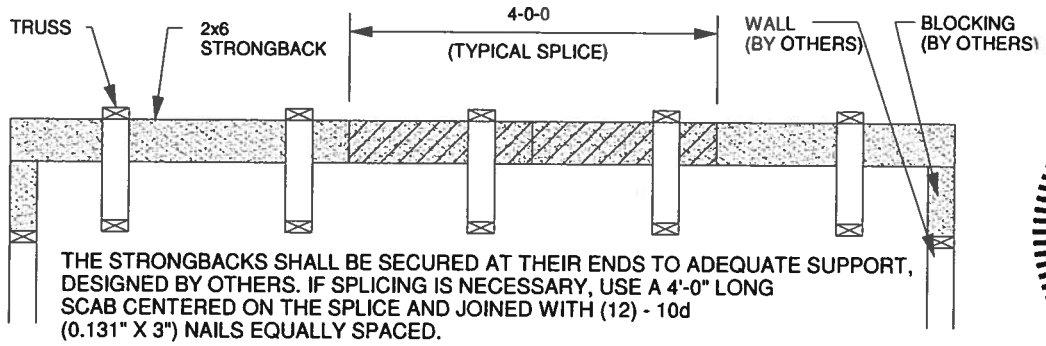
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

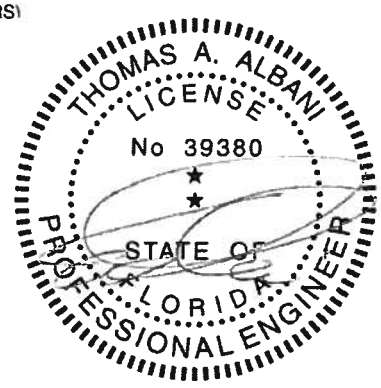
NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





THE STRONGBACKS SHALL BE SECURED AT THEIR ENDS TO ADEQUATE SUPPORT, DESIGNED BY OTHERS. IF SPLICING IS NECESSARY, USE A 4'-0" LONG SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d (0.131" X 3") NAILS EQUALLY SPACED.

ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



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