

Columbia County New Building Permit Application

Ck# 44776

For Office Use Only Application # 44675 Date Received 3/5 By JW Permit # 39492
 Zoning Official LW/CH Date 3-12-20 Flood Zone X Land Use Ag Zoning P20
 FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner T.C. Date 3-17-20
 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. 20-0178 OR City Water ☐ Fax _____
 Applicant (Who will sign/pickup the permit) LORA DAVID Phone 365-5671
 Address 601 SW ROSEMARY DR, LAKE CITY, FL 32024
 Owners Name MATTHEW KARLTON Phone 386-623-0267
 911 Address 171 NW Ansley Place, LAKE CITY, FL 32055
 Contractors Name AARON SIMQUE HOMES, INC. Phone 867-5395
 Address 601 SW ROSEMARY DR, LAKE CITY, FL 32024
 Contractor Email AARON@AARONSIMQUE.COM Lora David@schro.com **SCANNED**
 ***Include to get updates on this job.

Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address MARK DISCOVERY INC 1163 SW Midtown Pl #103 LCFI 32024
 Architect/Engineer Name & Address _____
 Mortgage Lenders Name & Address Campus 1658 W. US Hwy 90 Lake City, FL 32055
 Circle the correct power company ☒ FL Power & Light ☐ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy
 Property ID Number 20-3S-16-02202-128 Estimated Construction Cost 250K
 Subdivision Name HIGH POINTE Lot 28 Block _____ Unit _____ Phase _____
 Driving Directions from a Major Road HWY 90 W, THEN LEFT ON BROWN RD, THEN RIGHT ONTO HIGH POINT DR, THEN RIGHT ONTO ANSLEY PL, PROPERTY 2ND ON RIGHT

Construction of SFR _____ Commercial OR ☒ Residential
 Proposed Use/Occupancy SFR Number of Existing Dwellings on Property _____
 Is the Building Fire Sprinkled? NO 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 50 Side 72.2 Side 70.5 Rear 142
 Number of Stories 1 Heated Floor Area 2286 Total Floor Area 3983 Acreage 1.59
 Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____
44675 44776

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.

M. Kull
Print Owners Name

MATT KARBON
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.

Aaron Simque
Contractor's Signature

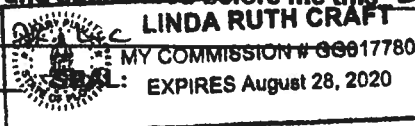
Contractor's License Number RR 282811879
Columbia County
Competency Card Number 000713

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 21 day of Feb 2020.

Personally known _____ or Produced Identification FL

Linda R. Craft

State of Florida Notary Signature (For the Contractor)



SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #

44675

JOB NAME

12 CARLTON

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

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

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

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

ELECTRICAL <input checked="" type="checkbox"/>	Print Name <u>RYAN BEVILLE</u> Signature <u>[Signature]</u>	Need Lic <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> W/C <input checked="" type="checkbox"/> EX <input checked="" type="checkbox"/> DE <input checked="" type="checkbox"/>
CC# <u>811</u>	Company Name: <u>RBI ELECTRICAL CONTRACTORS</u> License #: <u>EC13004236</u> Phone #: <u>386 339 0360</u>	
MECHANICAL/A/C <input type="checkbox"/>	Print Name <u>[Signature]</u> Signature <u>[Signature]</u>	Need Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE <input type="checkbox"/>
CC# <u>1377</u>	Company Name: <u>BURNS HEATING & COOLING</u> License #: <u>CAC1815198</u> Phone #: <u>352-472-2761</u>	
PLUMBING/GAS <input checked="" type="checkbox"/>	Print Name <u>MARK GANSKOP</u> Signature <u>[Signature]</u>	Need Lic <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> W/C <input checked="" type="checkbox"/> EX <input checked="" type="checkbox"/> DE <input checked="" type="checkbox"/>
CC# <u>1023</u>	Company Name: <u>Express Plumbing</u> License #: <u>CFL1428040</u> Phone #: <u>386-8167-0269</u>	
ROOFING <input checked="" type="checkbox"/>	Print Name <u>DANA JOHNSON</u> Signature <u>[Signature]</u>	Need Lic <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> W/C <input checked="" type="checkbox"/> EX <input checked="" type="checkbox"/> DE <input checked="" type="checkbox"/>
CC# <u>1129</u>	Company Name: <u>MAC JOHNSON ROOFING</u> License #: <u>CCC1325497</u> Phone #: <u></u>	
SHEET METAL <input type="checkbox"/>	Print Name _____ Signature _____	Need Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE <input type="checkbox"/>
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
FIRE SYSTEM/SPRINKLER <input type="checkbox"/>	Print Name _____ Signature _____	Need Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE <input type="checkbox"/>
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
SOLAR <input type="checkbox"/>	Print Name _____ Signature _____	Need Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE <input type="checkbox"/>
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
STATE SPECIALTY <input type="checkbox"/>	Print Name _____ Signature _____	Need Lic <input type="checkbox"/> Lab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE <input type="checkbox"/>
CC# _____	Company Name: _____ License #: _____ Phone #: _____	

Rec'd

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #

44675

JOB NAME

KARLTON

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ELECTRICAL <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need Lic Lab W/C EX DE
MECHANICAL/A/C <input checked="" type="checkbox"/> 1762	Print Name <u>Steve Brisbois</u> Signature <u>[Signature]</u> Company Name: <u>Arctic A/C Services Heating & Air</u> CC# _____ License #: <u>CAC 1815182</u> Phone #: <u>386-688-7107</u>	Need Lic Lab W/C EX DE
PLUMBING/GAS <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need Lic Lab W/C EX DE
ROOFING <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need Lic Lab W/C EX DE
SHEET METAL <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need Lic Lab W/C EX DE
FIRE SYSTEM/SPRINKLER <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need Lic Lab W/C EX DE
SOLAR <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need Lic Lab W/C EX DE
STATE SPECIALTY <input type="checkbox"/>	Print Name _____ Signature _____ Company Name: _____ CC# _____ License #: _____ Phone #: _____	Need Lic Lab W/C EX DE

Rec'd

44675

S90065002642



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

PERMIT NO. 20-0178
DATE PAID: 3/5/20
FEE PAID: 725.00
RECEIPT #: 1421729

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Innovative
☐ Repair ☐ Abandonment ☐ Temporary ☐

APPLICANT: Matthew KiddonAGENT: LORA DavidTELEPHONE: 3655671MAILING ADDRESS: PO Box 3127, Lake City, FL 32056

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

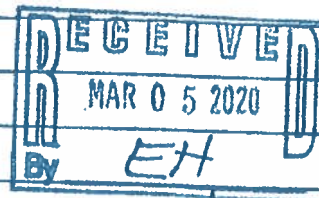
LOT: 28 BLOCK: SUBDIVISION: High Pointe PLATTED: PROPERTY ID #: 20-35-16-02202-128 ZONING: I/M OR EQUIVALENT: ☒ Y ☐ NPROPERTY SIZE: 1.59 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ☐ ≤2000GPD ☐ >2000GPDIS SEWER AVAILABLE AS PER 381.0065, FS? ☒ Y ☐ N DISTANCE TO SEWER: FTPROPERTY ADDRESS: 171 NW Ansley Place

DIRECTIONS TO PROPERTY: Hwy 90 W, then left on Brown Rd
Then Right onto High Pointe. Then Right onto
Ansley Pl. Property 2nd on Right

BUILDING INFORMATION

☒ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SFR	3	2286	
2				
3				
4				

☐ Floor/Equipment Drains ☐ Other (Specify) SIGNATURE: Lora DavidDATE: 2/17/20

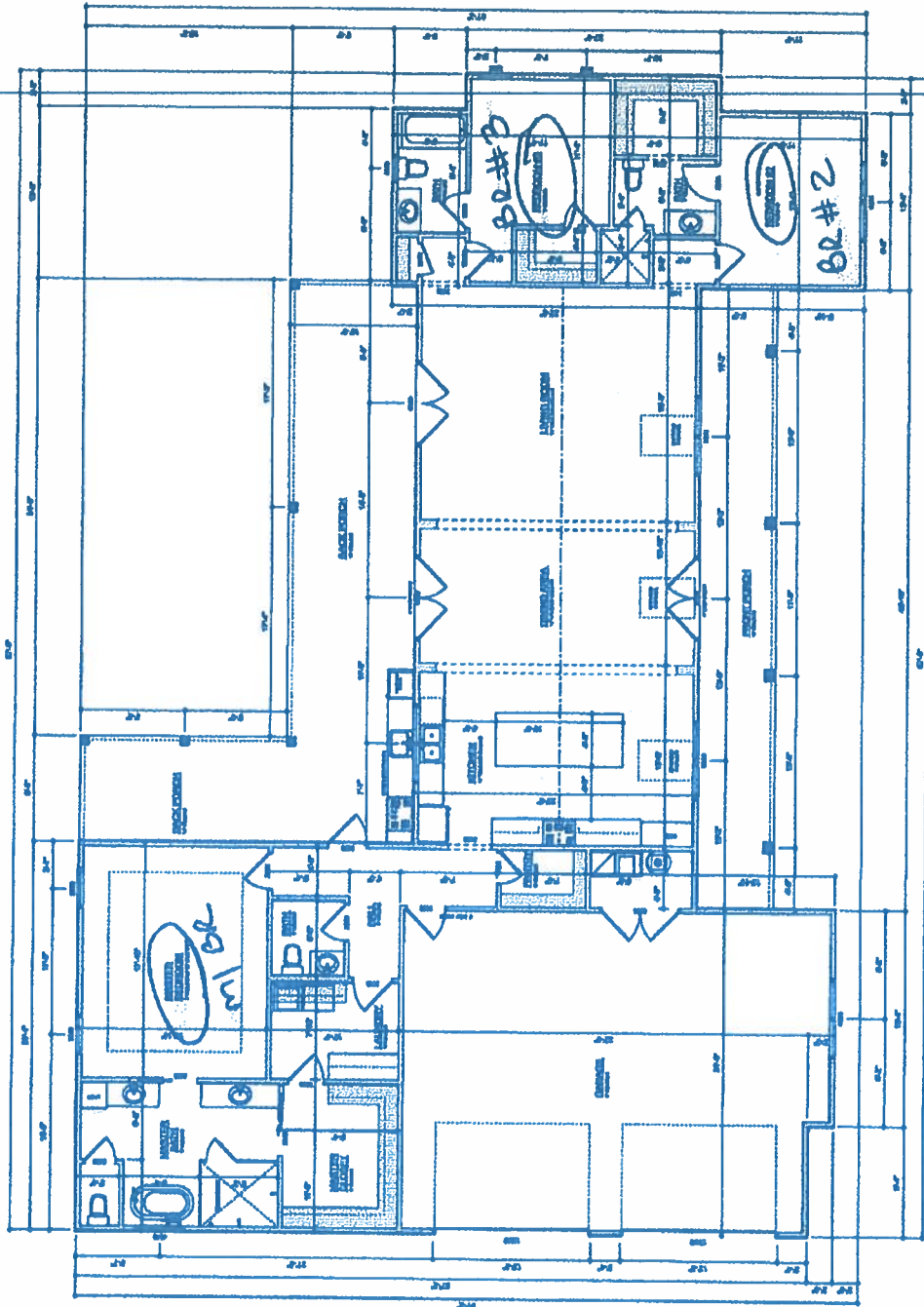
REVISIONS SCHEDULE	DATE	BY	DESCRIPTION
1	03/11/2020	ARCHITECT	PROPOSAL

KARLTON RESIDENCE
LAKE CITY, FLORIDA

RIDGEPOINT DESIGN
1700 4TH ST. S. SUITE 100
LAKE CITY, FLORIDA 33701
P: 813-420-1188
F: 813-420-1189
WWW.RIDGEPOINTDESIGN.COM

A.3
OF 4 SHEETS

821028



AREA SUMMARY

LIVING	2,298	S.F.
FRONT PORCH	381	S.F.
BACK PORCH	594	S.F.
GARAGE	862	S.F.
TOTAL AREA	3,983	S.F.

DIMENSIONED FLOOR PLAN

Legend

2018Aerials



SRWMD Wetlands



2018 Flood Zones

0.2 PCT ANNUAL CHANCE

A

AE

AH

Roads

Roads

others

Dirt

Interstate

Main

Other

Paved

Private

LidarElevations



Columbia County, FLA - Building & Zoning Property Map

Printed: Thu Mar 12 2020 16:39:15 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 20-3S-16-02202-128

Owner: KARLTON MATTHEW B & LYNDI M

Subdivision: HIGH POINTE

Lot: 28

Acres: 1.59474277

Deed Acres: 1.59 Ac

District: District 3 Bucky Nash

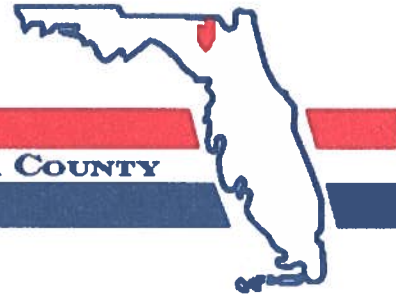
Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: PRD

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

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: **2/14/2020 8:47:21 PM**
Address: **171 NW ANSLEY PI**
City: **LAKE CITY**
State: **FL**
Zip Code **32055**

Parcel ID **02202-128**

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**

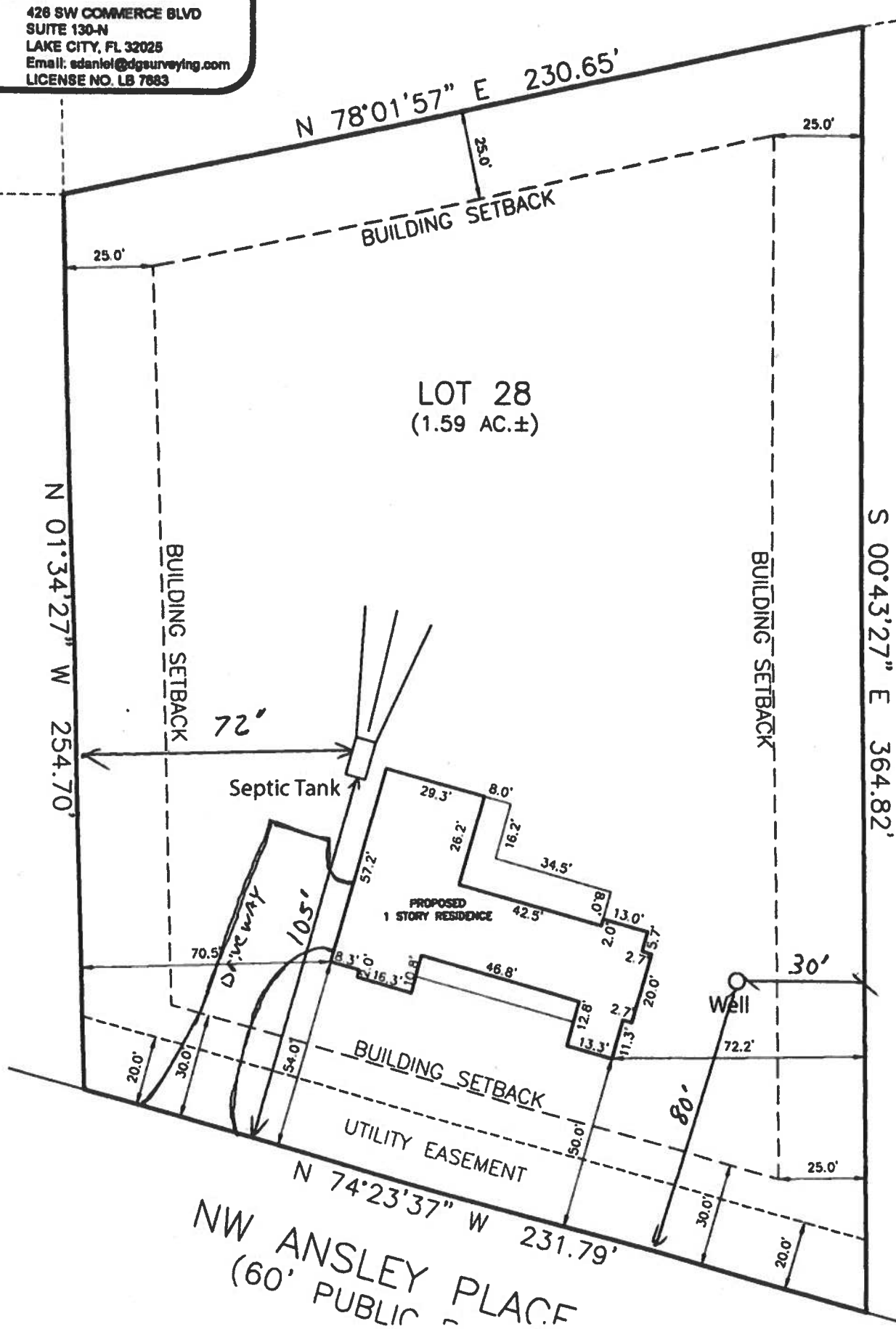
**263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com**

L & GORE, LLC

Surveying and Mapping

428 SW COMMERCE BLVD
SUITE 130-N
LAKE CITY, FL 32025
Email: edaniel@dgsurveying.com
LICENSE NO. LB 7683

1058
78
29



THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Recording Fee \$18.50
Revenue Stamps \$300.30
Consideration \$42,900.00

RETURN TO:

✓ TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

File No. 09-74
Property Appraiser's
Parcel Identification No.
20-3S-16-02202-128

Inst:200912005279 Date:3/31/2009 Time:2:29 PM
Doc Stamp-Deed:300.30
✓ DC P DeWitt Cason, Columbia County Page 1 of 2 B:1170 P:733

WARRANTY DEED

This Warranty Deed, made this 31st day of March 2009, BETWEEN HIGHPOINT FARMS, LLC, A Florida Limited Liability Company, whose post office address is 4158 US Highway 90 West, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and MATTHEW B. KARLTON and LYNDI M. KARLTON, Husband and Wife, whose post office address is Post Office Box 3127, Lake City, FL 32056, of the County of Columbia, State of Florida, grantee*.

(Whenever 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, trusts and trustees)

Witnesseth: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot 28, HIGH POINTE, a subdivision according to the plat thereof as recorded in PRRD Book 1, Pages 28-31 of the public records of Columbia County, Florida.

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 subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

HIGHPOINT FARMS, LLC

DeEtte F. Brown
(Signature of First Witness)
DeEtte F. Brown
(Typed Name of First Witness)

By: [Signature] (SEAL)
O.P. Baughtry, III, Managing Member

Myrtle Ann McElroy
(Signature of Second Witness)
Myrtle Ann McElroy
(Typed Name of Second Witness)

STATE OF Florida
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 31st day of March, 2009, by O.P. DAUGHTRY, III, as Managing Member of HIGHPOINT FARMS, LLC, a Florida Limited Liability Company, on behalf of said company. He is personally known to me and did not take an oath.

De Ette F. Brown
Notary Public
My Commission Expires: _____



WaterBoy Well Repair & Drilling

19288 127th Dr.
O Brien, Fl. 32071
(386)330-6099
Waterboywellrepair@yahoo.com

January 9, 2020

To Whom It May Concern,

We plan to install a 4" well located at 567 NW High Point Dr Lake City, Fl. 32055 . Well to include: 1hp submersible Pump, 1 1/4" drop pipe, 81 gallon bladder tank and backflow prevention. SRWMD permit and completion report once available.

Sincerely,



William Shuler-License #5002





COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

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

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
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		Select From the Dropdown
1	Two (2) complete sets of plans containing the following:	YES <input type="text"/>
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	YES <input type="text"/>
3	Condition space (Sq. Ft.) <u>2296</u> Total (Sq. Ft.) under roof <u>3983</u>	YES <input type="text"/> NO <input type="text"/> N/A <input type="text"/>

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

Site Plan information including:

4	Dimensions of lot or parcel of land	YES <input type="text"/>
5	Dimensions of all building set backs	YES <input type="text"/>
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 <input type="text"/>
7	Provide a full legal description of property.	YES <input type="text"/>

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

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

Elevations Drawing including:

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

Floor Plan including:

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

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

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
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FBCR 403: Foundation Plans

YES / NO / N/A

Select From the Dropdown

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

FBCR 506: CONCRETE SLAB ON GRADE

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

FBCR 318: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides	YES <input type="text"/>
----	--	--------------------------

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

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

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

Floor Framing System: First and/or second story

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

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

YES / NO / N/A

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

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

FBCR : ROOF SYSTEMS:

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

FBCR 802:Conventional Roof Framing Layout

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

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assemblies covering	YES <input type="text"/>
72	Submit Florida Product Approval numbers for each component of the roof assemblies covering	YES <input type="text"/>

FBCR Chapter 11 Energy Efficiency Code for residential building

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

YES / NO / N/A

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

HVAC information

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

Plumbing Fixture layout shown

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

Private Potable Water

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

Electrical layout shown including

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

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
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THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

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

TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. NO

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

Notice Of Commencement

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

Section R101.2.1 of the Florida Building Code Residential:

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

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	PGT IND.	EXTERIOR DOORS	FL253-R12
B. SLIDING			
C. SECTIONAL/ROLL UP	OVERHEAD DOORS	GARAGE DOOR	FL742-R6
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	PGT IND.	SH WINDOWS	FL239-R19
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	JAMES HARDI	HARDIBOARD SIDING	FLB192-R2
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	TAMKO	ASPHALT SHINGLES	FL1956-R8
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

Date

NOTES: _____

Residential System Sizing Calculation

Summary

Project Title:
Karlton Residence

Lake City, FL 32055



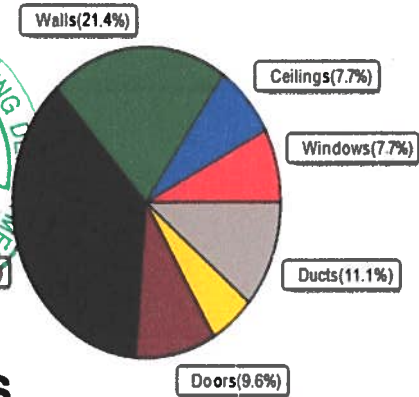
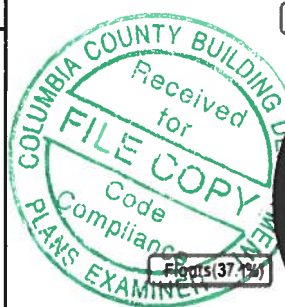
1/30/2020

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	38014 Btuh	Total cooling load calculation	24866 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	94.7 36000	Sensible (SHR = 0.85)	139.9 30600
Heat Pump + Auxiliary(0.0kW)	94.7 36000	Latent	180.6 5400
		Total (Electric Heat Pump)	144.8 36000

WINTER CALCULATIONS

Winter Heating Load (for 2286 sqft)

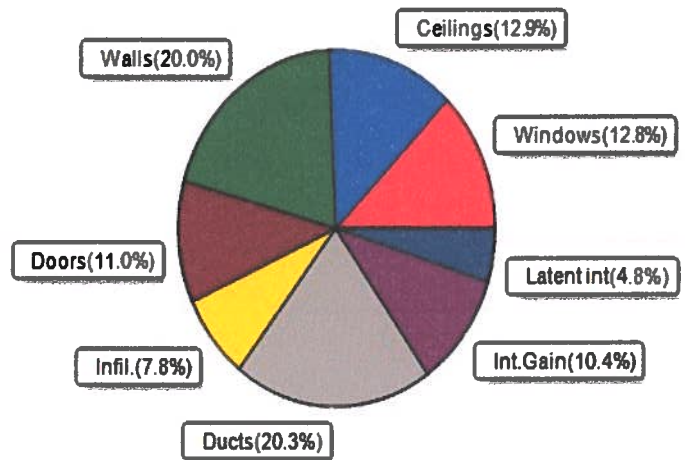
Load component		Load	
Window total	222 sqft	2930	Btuh
Wall total	2360 sqft	8138	Btuh
Door total	228 sqft	3648	Btuh
Ceiling total	2286 sqft	2912	Btuh
Floor total	2286 sqft	14113	Btuh
Infiltration	47 cfm	2042	Btuh
Duct loss		4230	Btuh
Subtotal		38014	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		38014	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2286 sqft)

Load component		Load	
Window total	222 sqft	3182	Btuh
Wall total	2360 sqft	4981	Btuh
Door total	228 sqft	2736	Btuh
Ceiling total	2286 sqft	3203	Btuh
Floor total		0	Btuh
Infiltration	35 cfm	727	Btuh
Internal gain		2580	Btuh
Duct gain		4466	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		21876	Btuh
Latent gain(ducts)		583	Btuh
Latent gain(infiltration)		1207	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		2990	Btuh
TOTAL HEAT GAIN		24866	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

1-30-20

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Karlton Residence

Lake City, FL 32055

1/30/2020

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	N	1.5ft	1.3ft	36.0	0.0	36.0	11	11	392 Btuh
2	2 NFRC	0.22, 0.33	No	No	N	11.5f	1.3ft	24.0	0.0	24.0	11	11	262 Btuh
3	2 NFRC	0.22, 0.33	No	No	N	1.5ft	1.3ft	8.0	0.0	8.0	11	11	87 Btuh
4	2 NFRC	0.22, 0.33	No	No	E	1.5ft	1.3ft	30.0	0.0	30.0	11	27	824 Btuh
5	2 NFRC	0.22, 0.33	No	No	S	1.5ft	1.3ft	36.0	36.0	0.0	11	13	392 Btuh
6	2 NFRC	0.22, 0.33	No	No	S	11.5f	1.3ft	72.0	72.0	0.0	11	13	785 Btuh
7	2 NFRC	0.22, 0.33	No	No	W	1.5ft	1.3ft	16.0	0.0	16.0	11	27	440 Btuh
Window Total								222 (sqft)					3182 Btuh
Walls	Type	U-Value		R-Value		Area(sqft)			HTM		Load		
					Cav/Sheath								
1	Frame - Wood - Ext		0.09		13.0/0.6			228.0		2.2		501 Btuh	
2	Frame - Wood - Ext		0.09		13.0/0.6			211.5		2.2		465 Btuh	
3	Frame - Wood - Ext		0.09		13.0/0.6			301.7		2.2		663 Btuh	
4	Frame - Wood - Ext		0.09		13.0/0.6			18.0		2.2		40 Btuh	
5	Frame - Wood - Ext		0.09		13.0/0.6			112.0		2.2		246 Btuh	
6	Frame - Wood - Ext		0.09		13.0/0.6			51.0		2.2		112 Btuh	
7	Frame - Wood - Ext		0.09		13.0/0.6			24.0		2.2		53 Btuh	
8	Frame - Wood - Ext		0.09		13.0/0.6			150.0		2.2		330 Btuh	
9	Frame - Wood - Ext		0.09		13.0/0.6			24.0		2.2		53 Btuh	
10	Frame - Wood - Ext		0.09		13.0/0.6			102.0		2.2		224 Btuh	
11	Frame - Wood - Ext		0.09		13.0/0.6			84.0		2.2		185 Btuh	
12	Frame - Wood - Ext		0.09		13.0/0.6			115.5		2.2		254 Btuh	
13	Frame - Wood - Ext		0.09		13.0/0.6			348.3		2.2		766 Btuh	
14	Frame - Wood - Ext		0.09		13.0/0.6			219.5		2.2		483 Btuh	
15	Frame - Wood - Adj		0.09		13.0/0.6			370.5		1.6		607 Btuh	
Wall Total								2360 (sqft)					4981 Btuh
Doors	Type	U-Value		R-Value		Area (sqft)			HTM		Load		
1	Insulated - Exterior							24.0		12.0		288 Btuh	
2	Insulated - Exterior							48.0		12.0		576 Btuh	
3	Insulated - Exterior							48.0		12.0		576 Btuh	
4	Insulated - Exterior							48.0		12.0		576 Btuh	
5	Insulated - Garage							20.0		12.0		240 Btuh	
6	Insulated - Garage							40.0		12.0		480 Btuh	
Door Total								228 (sqft)					2736 Btuh
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/Light/Metal		0.032		30.0/0.0			2286.0		1.40		3203 Btuh	
Ceiling Total								2286 (sqft)					3203 Btuh
Floors	Type	U-Value		R-Value		Size			HTM		Load		
1	Slab On Grade				0.0			2286 (ft-perimeter)		0.0		0 Btuh	
Floor Total								2286.0 (sqft)					0 Btuh
Envelope Subtotal:												14102 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Karlton Residence

Lake City, FL 32055

1/30/2020

Infiltration	Type Natural	Average ACH 0.11	Volume(cuft) 18288	Wall Ratio 1	CFM= 35.0	Load 727 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230	Appliance +	1200	Load 2580 Btuh
	Sensible Envelope Load:					17409 Btuh
Duct load	Extremely sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.257)					4466 Btuh
	Sensible Load All Zones					21876 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Karlton Residence

Lake City, FL 32055

1/30/2020

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	17409 Btuh
	Sensible Duct Load	4466 Btuh
	Total Sensible Zone Loads	21876 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21876 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1207 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	583 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2990 Btuh
	TOTAL GAIN	24866 Btuh

EQUIPMENT

1. Central Unit	#	36000 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Omt - compass orientation)



Version 8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Karlton Residence
Building Type: User

Lake City, FL 32055

1/30/2020

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	N	36.0		13.2	475 Btuh
2	2, NFRC 0.22	Vinyl	0.33	N	24.0		13.2	317 Btuh
3	2, NFRC 0.22	Vinyl	0.33	N	8.0		13.2	106 Btuh
4	2, NFRC 0.22	Vinyl	0.33	E	30.0		13.2	396 Btuh
5	2, NFRC 0.22	Vinyl	0.33	S	36.0		13.2	475 Btuh
6	2, NFRC 0.22	Vinyl	0.33	S	72.0		13.2	950 Btuh
7	2, NFRC 0.22	Vinyl	0.33	W	16.0		13.2	211 Btuh
Window Total					222.0(sqft)			2930 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.086)	13.0/0.6	228		3.45	786 Btuh
2	Frame - Wood	- Ext	(0.086)	13.0/0.6	212		3.45	729 Btuh
3	Frame - Wood	- Ext	(0.086)	13.0/0.6	302		3.45	1040 Btuh
4	Frame - Wood	- Ext	(0.086)	13.0/0.6	18		3.45	62 Btuh
5	Frame - Wood	- Ext	(0.086)	13.0/0.6	112		3.45	386 Btuh
6	Frame - Wood	- Ext	(0.086)	13.0/0.6	51		3.45	176 Btuh
7	Frame - Wood	- Ext	(0.086)	13.0/0.6	24		3.45	83 Btuh
8	Frame - Wood	- Ext	(0.086)	13.0/0.6	150		3.45	517 Btuh
9	Frame - Wood	- Ext	(0.086)	13.0/0.6	24		3.45	83 Btuh
10	Frame - Wood	- Ext	(0.086)	13.0/0.6	102		3.45	352 Btuh
11	Frame - Wood	- Ext	(0.086)	13.0/0.6	84		3.45	290 Btuh
12	Frame - Wood	- Ext	(0.086)	13.0/0.6	116		3.45	398 Btuh
13	Frame - Wood	- Ext	(0.086)	13.0/0.6	348		3.45	1201 Btuh
14	Frame - Wood	- Ext	(0.086)	13.0/0.6	220		3.45	757 Btuh
15	Frame - Wood	- Adj	(0.086)	13.0/0.6	371		3.45	1278 Btuh
Wall Total					2360(sqft)			8138 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.400)		24		16.0	384 Btuh
2	Insulated - Exterior, n		(0.400)		48		16.0	768 Btuh
3	Insulated - Exterior, n		(0.400)		48		16.0	768 Btuh
4	Insulated - Exterior, n		(0.400)		48		16.0	768 Btuh
5	Insulated - Garage, n		(0.400)		20		16.0	320 Btuh
6	Insulated - Garage, n		(0.400)		40		16.0	640 Btuh
Door Total					228(sqft)			3648 Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Vented Attic/L/Metal		(0.032)	30.0/0.0	2286		1.3	2912 Btuh
Ceiling Total					2286(sqft)			2912 Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	299.0 ft(perim.)		47.2	14113 Btuh
Floor Total					2286 sqft			14113 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Lake City, FL 32055

Project Title:
Karlton Residence
Building Type: User

1/30/2020

	Envelope Subtotal:					31742 Btuh
Infiltration	Type Natural	Wholehouse ACH 0.15	Volume(cuft) 18288	Wall Ratio 1.00	CFM= 46.6	2042 Btuh
Duct load	Extremely sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.125)					4230 Btuh
All Zones	Sensible Subtotal All Zones					38014 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	38014 Btuh 0 Btuh 38014 Btuh
---------------------------	--	------------------------------------

EQUIPMENT

1. Electric Heat Pump	#	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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Karlton Residence
 Street:
 City, State, Zip: Lake City, FL, 32055
 Owner:
 Design Location: FL, Gainesville



Builder Name: Aaron Simque Homes
 Permit Office:
 Permit Number:
 Jurisdiction:
 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 3
 5. Is this a worst case? No
 6. Conditioned floor area above grade (ft²) 2286
 Conditioned floor area below grade (ft²) 0

7. Windows (222.0 sqft.) Description Area
 a. U-Factor: Dbl, U=0.33 222.00 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: 5.824 ft.
 Area Weighted Average SHGC: 0.220

8. Floor Types (2286.0 sqft.) Insulation Area
 a. Slab-On-Grade Edge Insulation R=0.0 2286.00 ft²
 b. N/A R= ft²
 c. N/A R= ft²

9. Wall Types (2810.0 sqft.) Insulation Area
 a. Frame - Wood, Exterior R=13.0 2379.50 ft²
 b. Frame - Wood, Adjacent R=13.0 430.50 ft²
 c. N/A R= ft²
 d. N/A R= ft²
 10. Ceiling Types (2286.0 sqft.) Insulation Area
 a. Under Attic (Vented) R=30.0 2286.00 ft²
 b. N/A R= ft²
 c. N/A R= ft²
 11. Ducts R ft²
 a. Sup: Attic, Ret: Attic, AH: Main 6 457.2

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

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

14. Hot water systems
 a. Electric Cap: 40 gallons
 b. Conservation features EF: 0.920
 None

15. Credits CF, Pstat

Glass/Floor Area: 0.097

Total Proposed Modified Loads: 63.77

Total Baseline Loads: 64.74

PASS

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

PREPARED BY: 

DATE: 1-30-20

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.



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.

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Karlton Residence	Bedrooms:	3	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	2150	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	High Pointe
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Aaron Simque Homes	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32055
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			97.5 %	2.5 %	Winter	Summer	Degree Days	Moisture	Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2286	18288

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2286	18288	Yes	6	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	299 ft	0	2286 ft²	----	0.33	0.33	0.34

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Metal	2748 ft²	762 ft²	Light	N	0.6	No	0.9	No	0	33.7

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2286 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	2286 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
1	N	Exterior	Frame - Wood	Main	13	29	4	9		264.0 ft²	0.625	0.23	0.75	0
2	E	Exterior	Frame - Wood	Main	13	26	2	9		235.5 ft²	0.625	0.23	0.75	0
3	N	Exterior	Frame - Wood	Main	13	42	2	10		421.7 ft²	0.625	0.23	0.75	0
4	W	Exterior	Frame - Wood	Main	13	2		9		18.0 ft²	0.625	0.23	0.75	0
5	N	Exterior	Frame - Wood	Main	13	13	4	9		120.0 ft²	0.625	0.23	0.75	0
6	E	Exterior	Frame - Wood	Main	13	5	8	9		51.0 ft²	0.625	0.23	0.75	0
7	N	Exterior	Frame - Wood	Main	13	2	8	9		24.0 ft²	0.625	0.23	0.75	0
8	E	Exterior	Frame - Wood	Main	13	20		9		180.0 ft²	0.625	0.23	0.75	0
9	S	Exterior	Frame - Wood	Main	13	2	8	9		24.0 ft²	0.625	0.23	0.75	0
10	E	Exterior	Frame - Wood	Main	13	11	4	9		102.0 ft²	0.625	0.23	0.75	0
11	S	Exterior	Frame - Wood	Main	13	13	4	9		120.0 ft²	0.625	0.23	0.75	0
12	W	Exterior	Frame - Wood	Main	13	12	10	9		115.5 ft²	0.625	0.23	0.75	0
13	S	Exterior	Frame - Wood	Main	13	46	10	10		468.3 ft²	0.625	0.23	0.75	0
14	W	Exterior	Frame - Wood	Main	13	26	2	9		235.5 ft²	0.625	0.23	0.75	0
15	W	Garage	Frame - Wood	Main	13	47	10	9		430.5 ft²	0.625	0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	E	Insulated	Main	None	.4	3		8		24 ft²
2	N	Insulated	Main	None	.4	6		8		48 ft²
3	N	Insulated	Main	None	.4	6		8		48 ft²
4	S	Insulated	Main	None	.4	6		8		48 ft²
5	W	Insulated	Main	None	.4	3		6	8	20 ft²
6	W	Insulated	Main	None	.4	6		6	8	40 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N	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	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	24.0 ft²	11 ft 6 in	1 ft 4 in	None	None
3	N	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	None
4	E	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None
5	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
6	S	13	Vinyl	Low-E Double	Yes	0.33	0.22	N	72.0 ft²	11 ft 6 in	1 ft 4 in	None	None
7	W	14	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.0 ft²	1 ft 6 in	1 ft 4 in	None	None

INPUT SUMMARY CHECKLIST REPORT

GARAGE															
✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation									
	1	789.344 ft²	789.344 ft²	69.5 ft	9 ft	1									
INFILTRATION															
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50							
1	Wholehouse	Proposed ACH(50)	.000254	1524	83.67	157.35	.0956	5							
HEATING SYSTEM															
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block			Ducts					
	1	Electric Heat Pump/	None	Singl	HSPF:8.5	36 kBtu/hr	1			sys#1					
COOLING SYSTEM															
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts					
	1	Central Unit/	None	Singl	SEER: 14	36 kBtu/hr	1080 cfm	0.85	1	sys#1					
HOT WATER SYSTEM															
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation						
	1	Electric	None	Main	0.92	40 gal	60 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 ---			--- Return ---			Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
	1	Attic	6	457.2 ft	Attic	114.3 ft	Prop. Leak Free	Main	--- cfm	68.6 cfm	0.03	0.50	1	1	

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Venting	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec

Thermostat Schedule: HERS 2006 Reference

Hours

Schedule Type		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

BEARING HEIGHT SCHEDULE

	9' 1-1/8"
	10' 1-1/8"
	11' 1-1/8"

NOTES:

- 1) REFER TO HD 91 (RECOMMENDATIONS FOR BEARING INSTALLATION AND TEMPORARY BRACING) REFER TO EXISTING DRAINAGE FOR PERMANENT BRACING REQUIRED.
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V05 FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' OC MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) S142 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) BEARING ADDED, NOTED, (N/A) TO BE FURNISHED BY BUILDER.



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

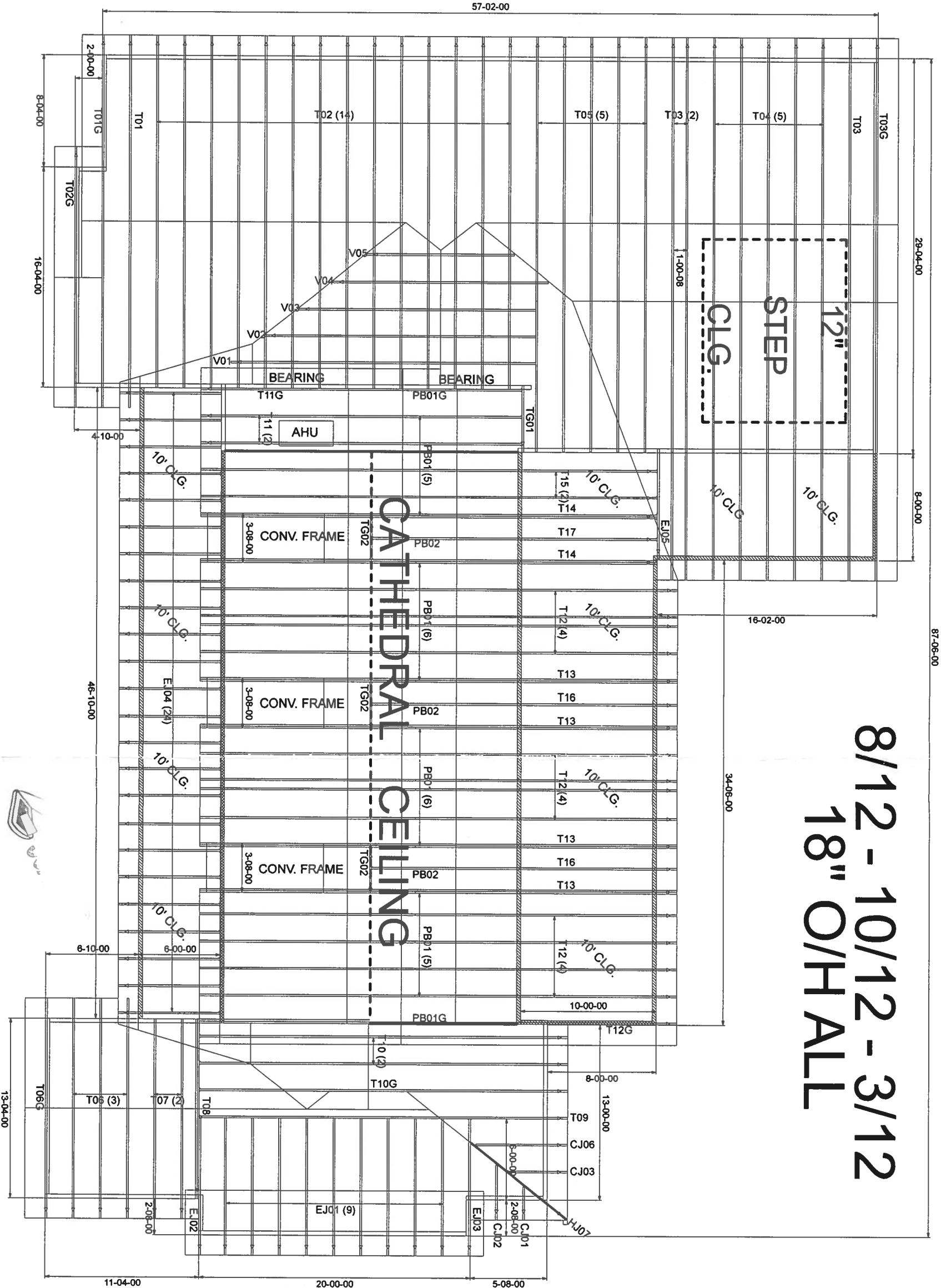
Tampa
PHONE: 813-621-8931 FAX: 813-628-8996

Lake City
PHONE: 386-755-6094 FAX: 386-755-1973

BUILDER:
AARON SIMQUE HOMES
TITLE: DRILLS
KARTLON RES.

DATE:	1-29-2020	APPROVED BY:	KLH	DATE:	2233370
DATE:	1-29-2020	APPROVED BY:	KLH	DATE:	2233370

8/12 - 10/12 - 3/12
18" O/H ALL



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



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

RE: 2233370 - AARON SIMQUE - KARLTON RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Aaron Simque Homes Project Name: Karlton Res. Model: Custom
Lot/Block: 29 Subdivision: High Pointe Farms
Address: TBD SW Ansley Place, N/A
City: Columbia City State: FL

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

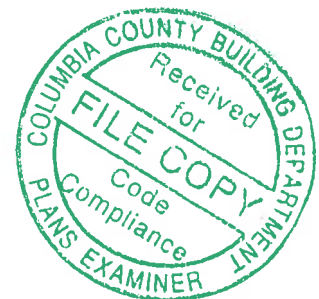
Name: License #:
Address: State:
City:

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

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

This package includes 44 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	T19289605	CJ01	1/31/20	23	T19289627	T06G	1/31/20
2	T19289606	CJ02	1/31/20	24	T19289628	T07	1/31/20
3	T19289607	CJ03	1/31/20	25	T19289629	T08	1/31/20
4	T19289608	CJ06	1/31/20	26	T19289630	T09	1/31/20
5	T19289609	EJ01	1/31/20	27	T19289631	T10	1/31/20
6	T19289610	EJ02	1/31/20	28	T19289632	T10G	1/31/20
7	T19289611	EJ03	1/31/20	29	T19289633	T11	1/31/20
8	T19289612	EJ04	1/31/20	30	T19289634	T11G	1/31/20
9	T19289613	EJ05	1/31/20	31	T19289635	T12	1/31/20
10	T19289614	HJ07	1/31/20	32	T19289636	T12G	1/31/20
11	T19289615	PB01	1/31/20	33	T19289637	T13	1/31/20
12	T19289616	PB01G	1/31/20	34	T19289638	T14	1/31/20
13	T19289617	PB02	1/31/20	35	T19289639	T15	1/31/20
14	T19289618	T01	1/31/20	36	T19289640	T16	1/31/20
15	T19289619	T01G	1/31/20	37	T19289641	T17	1/31/20
16	T19289620	T02	1/31/20	38	T19289642	TG01	1/31/20
17	T19289621	T02G	1/31/20	39	T19289643	TG02	1/31/20
18	T19289622	T03	1/31/20	40	T19289644	V01	1/31/20
19	T19289623	T03G	1/31/20	41	T19289645	V02	1/31/20
20	T19289624	T04	1/31/20	42	T19289646	V03	1/31/20
21	T19289625	T05	1/31/20	43	T19289647	V04	1/31/20
22	T19289626	T06	1/31/20	44	T19289648	V05	1/31/20

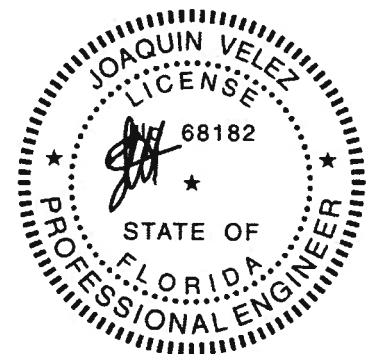


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2021.

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



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

January 31, 2020

Velez, Joaquin

1 of 1

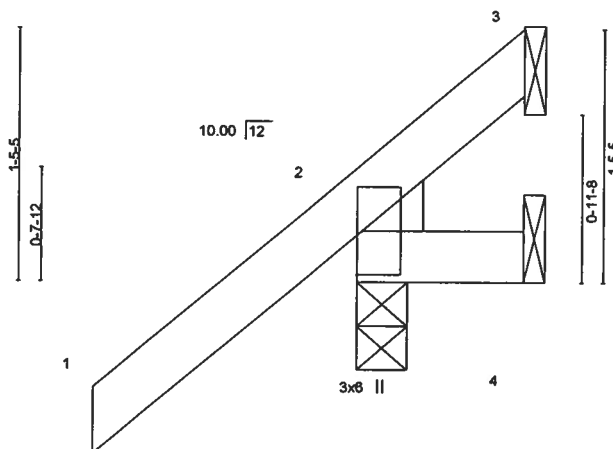


Job 2233370	Truss CJ01	Truss Type Jack-Open	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289605
Builders FirstSource, Jacksonville, FL - 32244,					

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:01 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmID-Tw4FjXmR4OA3zxKSnuqGcxPqU3a9itwMNO2ju?zq6ua

-1-6-0
1-6-0
0-11-7
0-11-7

Scale = 1:12.7



0-11-7
0-11-7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.04	Vert(CT)	0.00	7	>999		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MP						
							Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 0-11-7 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 3=-8/Mechanical, 2=180/0-3-8, 4=-22/Mechanical

Max Horz 2=90(LC 12)

Max Uplift 3=-8(LC 1), 2=-95(LC 12), 4=-22(LC 1)

Max Grav 3=10(LC 8), 2=180(LC 1), 4=25(LC 16)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl.,

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

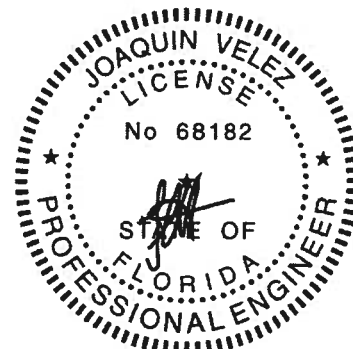
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

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) 3, 2, 4.



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

January 31,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIH-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 ANSUTPPI 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 33610

Job 2233370	Truss CJ02	Truss Type Jack-Open	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. Job Reference (optional)	T19289606
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:02 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5ig8hzmID-x7edxs3rhlwa5veLcLV98y?ESv3RKAWb2oGQRzq6uZ



Scale = 1:19.4

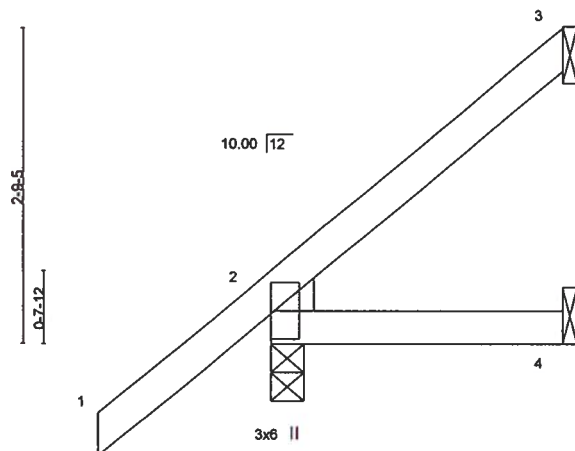


Plate Offsets (X,Y) - [2:0-0-2,0-0-3], [2:0-0-5,0-3-2]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.13	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%

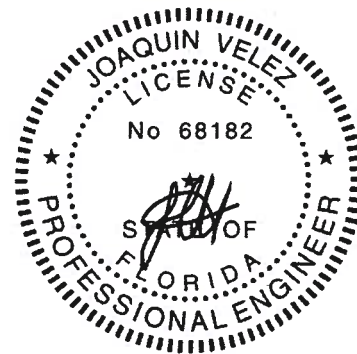
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=47/Mechanical, 2=198/0-3-8, 4=20/Mechanical
Max Horz 2=153(LC 12)
Max Uplift 3=-69(LC 12), 2=-59(LC 12), 4=-7(LC 12)
Max Grav 3=61(LC 19), 2=198(LC 1), 4=42(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 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) 3, 2, 4.



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Date: January 31,2020

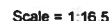
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2015 BEFORE USE.

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-88 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:03 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmlD-PJC?8Cnic?QnCFTquJskhMVBasFYAnQfqiXavvza6uY



Weight: 12 lb FT = 20%

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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) 3, 2.

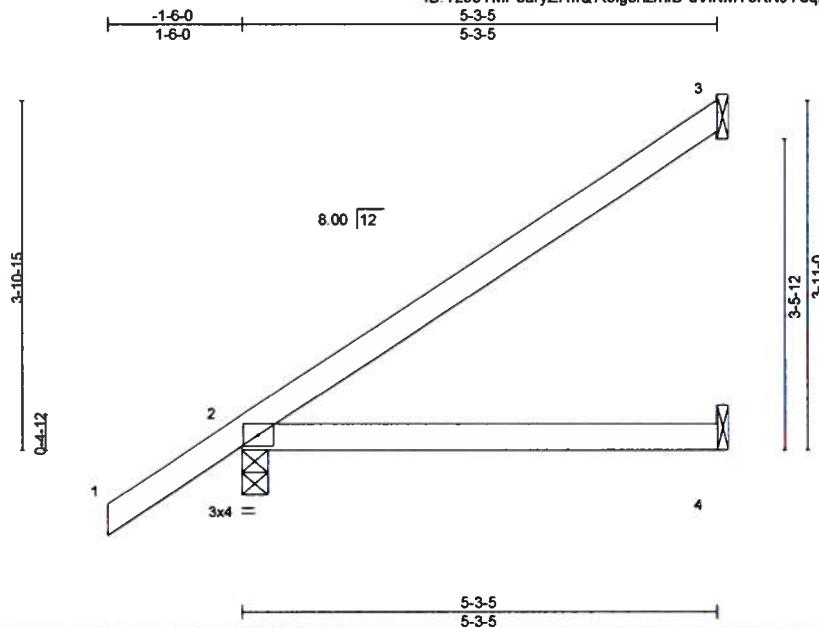
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-88 and BCS Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

6904 Parke East Blvd.
Tampa, FL 36610

Job 2233370	Truss CJ06	Truss Type Jack-Open	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289608
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:04 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmlD-uVINMYoKNJYdqP21S0OzEZ1lxGWRvEgo3MHNVKzq6uX



Scale = 1:24.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	0.05	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.32	Vert(CT)	-0.08	4-7	>739	180	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TP12014		Matrix-MP						

Weight: 20 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 5-3-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

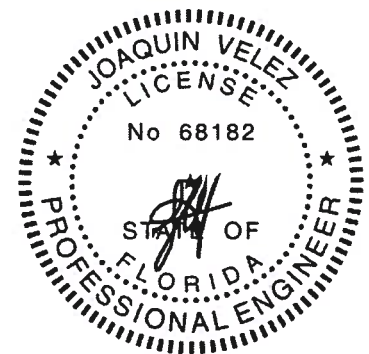
REACTIONS.

(lb/size) 3=120/Mechanical, 2=286/0-3-8, 4=61/Mechanical
Max Horz 2=211(LC 12)
Max Uplift 3=129(LC 12), 2=91(LC 12), 4=8(LC 12)
Max Grav 3=140(LC 19), 2=286(LC 1), 4=94(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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) 2, 4 except (if=lb) 3=129.



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

January 31,2020

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

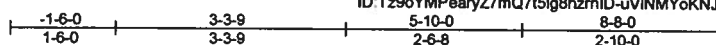
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



6904 Parke East Blvd.
Tampa, FL 33610

Job 2233370	Truss EJ01	Truss Type Jack-Partial	Qty 9	Ply 1	AARON SIMQUE - KARLTON RES.	T19289609
Builders FirstSource, Jacksonville, FL - 32244,						Job Reference (optional)

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:04 2020 Page 1
ID:Tz9oYMPearyZ7mQ7t5ig8hzmlD-uVINMYoKNJYdqP21S0OzEZ1M_GW7v9Mo3MHNVKzq6uX



Scale: 3/8"=1'

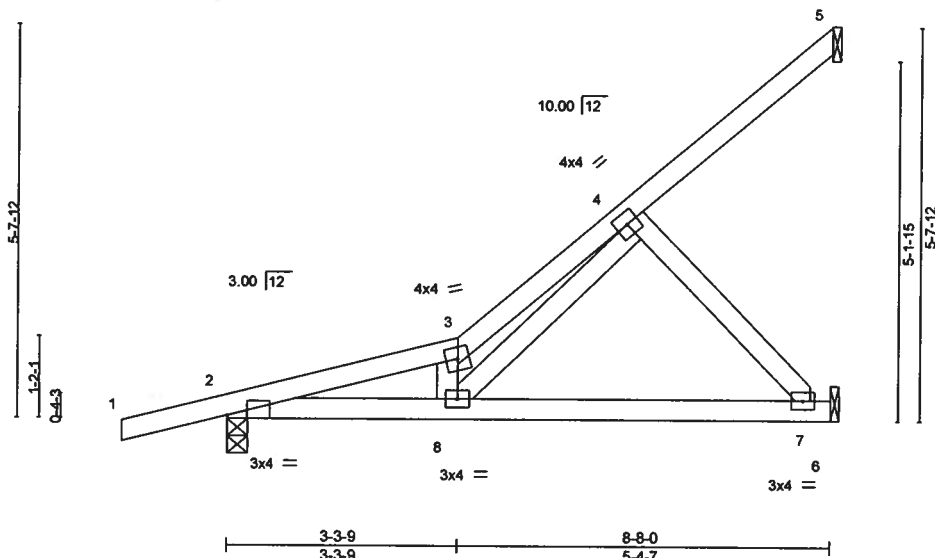


Plate Offsets (X,Y) - [2-0-3-6,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.14	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.34	Vert(CT)	-0.11	7-8	>947	180		
BCDL 0.0	Rep Stress Incr	YES	WB 0.34	Horz(CT)	-0.04	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							
									Weight: 43 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 5-8-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

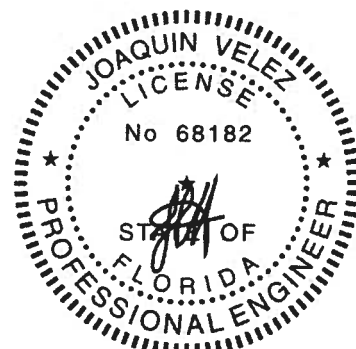
(lb/size) 5=59/Mechanical, 2=406/0-3-8, 6=252/Mechanical
Max Horz 2=269(LC 12)
Max Uplift 5=86(LC 12), 2=158(LC 8), 6=135(LC 12)
Max Grav 5=74(LC 19), 2=406(LC 1), 6=252(LC 1)

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

TOP CHORD 2-3=-750/79, 3-4=-1042/222
BOT CHORD 2-8=-316/708
WEBS 3-8=-553/221, 4-8=-282/895, 4-7=-337/238

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=158, 6=135.



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

January 31,2020

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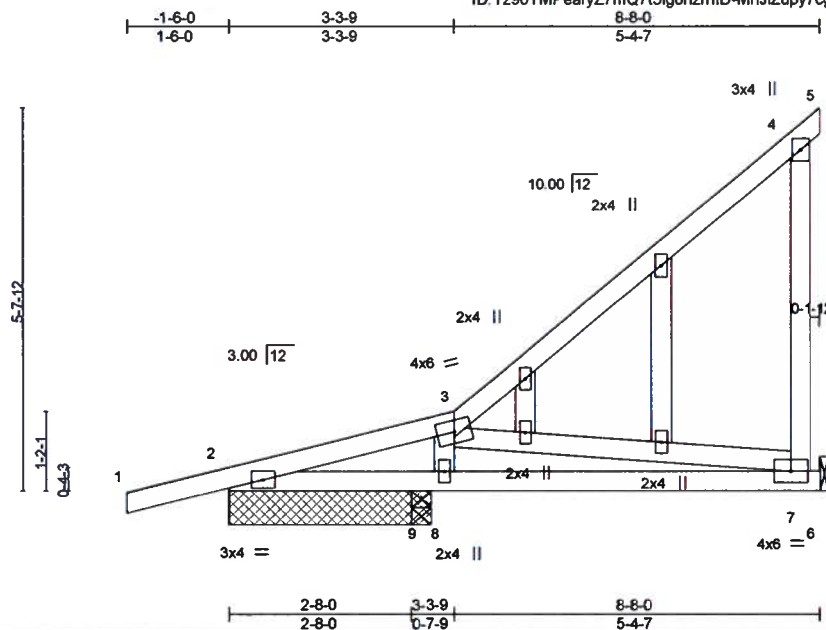
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - KARLTON RES.	T19289610
2233370	EJ02	Jack-Partial Structural Gable	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:05 2020 Page 1

ID: Tz9oYMPearyZ7mQ7t5lg8hzrmlD-MhJIZupy7cgUSYdD0kvCmnaUGgugeh4yl00x1mzq6uW



Scale = 1:32.6

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 0.36	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.05	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 52 lb	FT = 20%

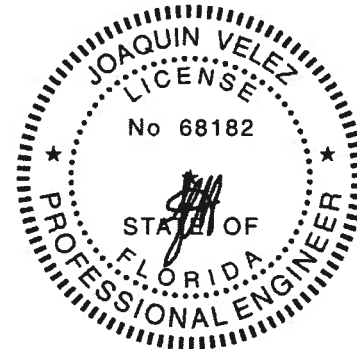
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) 7=204/Mechanical, 2=182/2-11-8, 9=325/0-3-8
Max Horz 2=270(LC 12)
Max Uplift 7=190(LC 12), 2=162(LC 8), 9=113(LC 12)
Max Grav 7=237(LC 19), 2=182(LC 1), 9=325(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; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Gable studs spaced at 2-0-0 oc.
 - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=190, 2=162, 9=113.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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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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8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:06 2020 Page 1
ID:Tz9oYMPearyZ7mQ7i5lg8hzmlD-qut7nEqauw0l3iCPaRQRJ_7nw4GMN7M5WgmUZDzq6uV

1-6-0 3-3-9 6-10-13 8-8-0
1-6-0 3-3-9 3-7-4 1-9-3

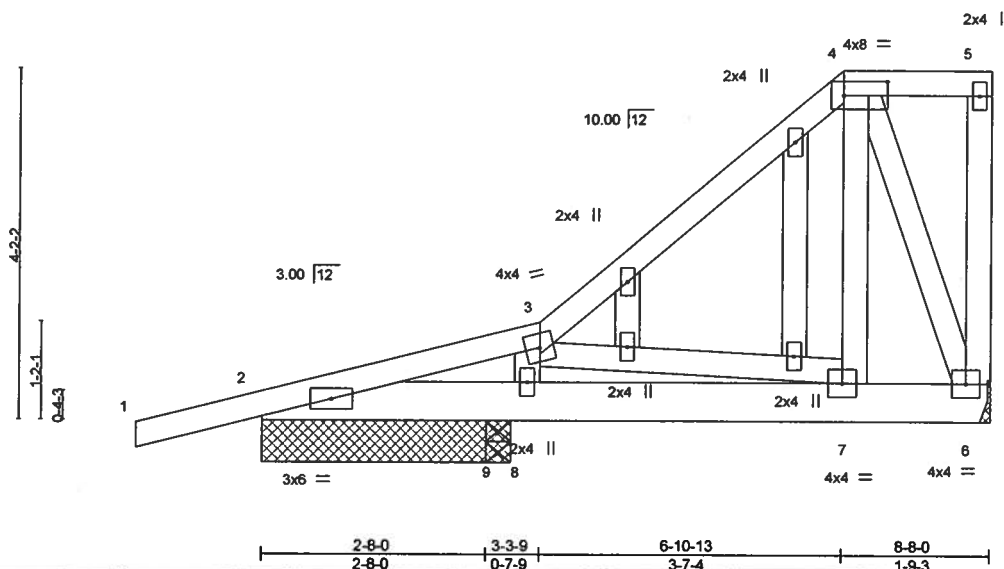


Plate Offsets (X,Y)– [4-0-6-4, 0-2-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL) 0.00 7 >999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.10	Vert(CT) -0.01 7-8 >999	180
BCLL 0.0	Rep Stress Incr	NO	WB 0.12	Horz(CT) -0.00 6 n/a	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS		
				PLATES GRIP	
				MT20	244/190
				Weight: 65 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=173/2-11-8, 6=363/Mechanical, 9=406/0-3-8
Max Horz 2=202(LC 8)
Max Uplift 2=167(LC 23), 6=288(LC 8), 9=203(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=268/196. 4-6=376/307

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Provide adequate drainage to prevent water ponding.
- 5) Gable studs spaced at 2'-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" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=167, 6=288, 9=203.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 183 lb up at 6'-10"-13 on top chord, and 184 lb down and 129 lb up at 6'-10"-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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, 3-4=54, 4-5=54, 2-6=20
Concentrated Loads (lb)
Vert: 7=144(F) 4=86(F)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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

WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED MILLER REFERENCE PAGE MM-1413 Rev. 10/03/2016 BEFORE USE.

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6904 Parke East Blvd
Tampa, FL 36610

Job 2233370	Truss EJ04	Truss Type Monopitch	Qty 24	Ply 1	AARON SIMQUE - KARLTON RES.	T19289612
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:07 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzrnID-14RWV_aqCfExChsnc79xgsCfomTZf6W9FIKV15fzq6uU



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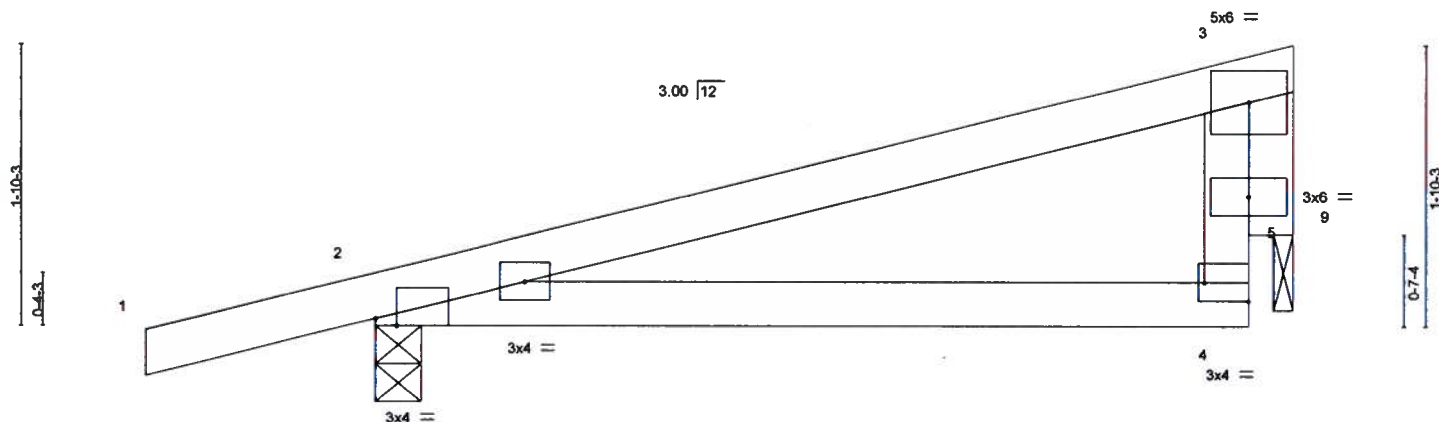


Plate Offsets (X,Y)-		[2:0-1-10, Edge], [4:Edge, 0-1-8]		6-0-0		6-0-0	
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.06 4-8 >999 240
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	0.05 4-8 >999 180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.00 2 n/a n/a
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MR			
						PLATES	GRIP
						MT20	244/190
						Weight: 23 lb	FT = 20%

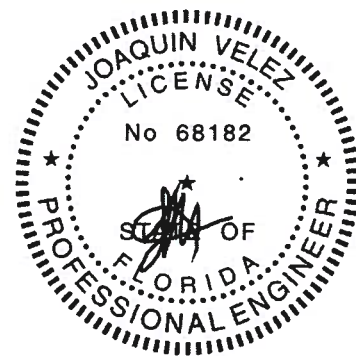
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.

REACTIONS. (lb/size) 2=310/0-3-8, 9=183/0-1-8
Max Horz 2=92(LC 8)
Max Uplift 2=257(LC 8), 9=147(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=226/321
BOT CHORD 2-4=363/203

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=257, 9=147.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31, 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-88 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street, Suite 312, Alexandria, VA 22314.

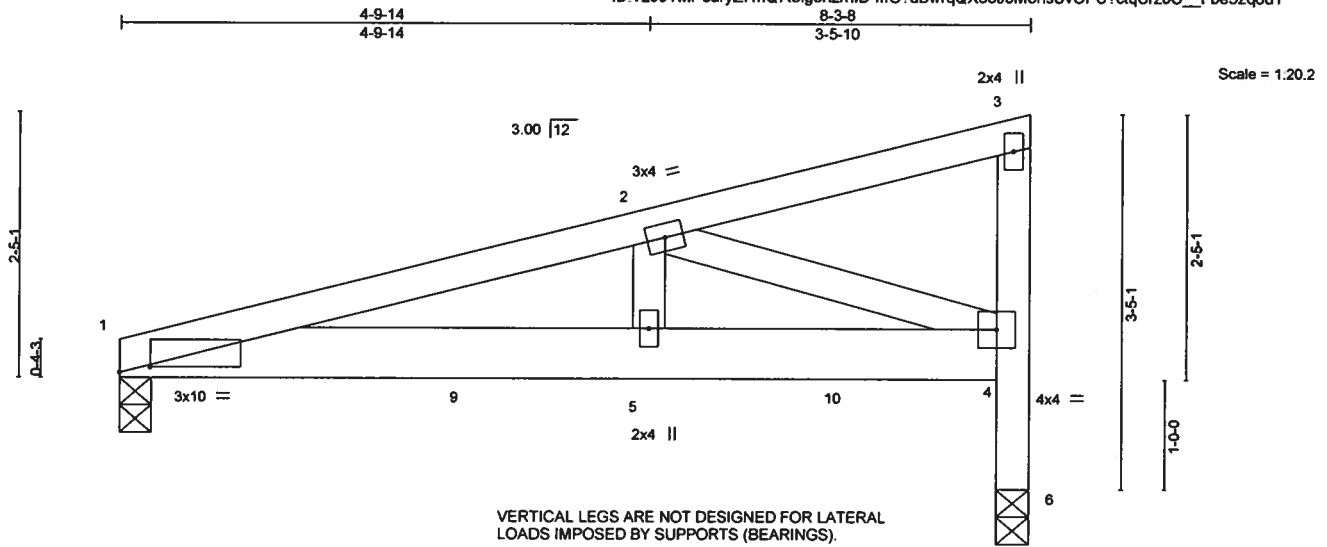
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Tampa, FL 33610

Job 2233370	Truss EJ05	Truss Type Monopitch Girder	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289613
Job Reference (optional)					

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:08 2020 Page 1
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		4-9-14		8-3-8					
Plate Offsets (X,Y)~		4-9-14		3-5-10					
[1:0-3-6,0-0-9]									
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 0.36	Vert(LL)	0.07 5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	0.07 5-8	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.36	Horz(CT)	-0.03 6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 42 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 5-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(lb/size) 1=570/0-3-8, 6=475/0-3-8
Max Horz 1=100(LC 4)
Max Uplift 1=509(LC 4), 6=555(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-977/1146, 4-6=-475/555
BOT CHORD 1-5=-1177/942, 4-5=-1177/942
WEBS 2-5=-510/386, 2-4=-969/1215

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=509, 6=555.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 345 lb down and 124 lb up at 1-6-1, 196 lb down and 418 lb up at 3-2-8, and 126 lb down and 178 lb up at 4-7-4, and 126 lb down and 178 lb up at 6-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 5=106(B) 8=345(B) 9=115 10=106(B)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020



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

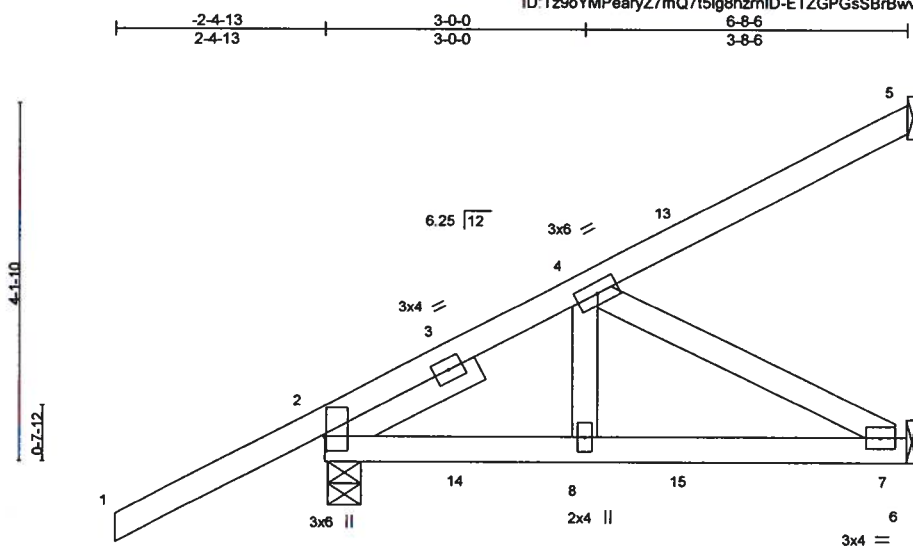
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 33610

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - KARLTON RES.
2233370	HJ07	Diagonal Hip Girder	1	1	T19289614
Builders FirstSource, Jacksonville, FL - 32244					

8 240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:09 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmID-ETZGPGsSBrBwwAx_Faz8xdI9jHH7aUcYDe_8AXzq6uS



Scale = 1:25.5

		0-0-7		3-0-0		6-7-10		6-8-6	
		0-0-7		2-11-9		3-7-10		0-0-12	
Plate Offsets (X,Y)– [2-0-2-0,0-0-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.40		Vert(LL) -0.01 7-8		>999 240	
TCDL 7.0		Lumber DOL 1.25		BC 0.16		Vert(CT) -0.02 7-8		>999 180	
BCLL 0.0 *		Rep Stress Incr NO		WB 0.08		Horz(CT) -0.00 5		n/a n/a	
BCDL 10.0		Code FBC2017/TPI2014		Matrix-MP					
								Weight: 36 lb FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

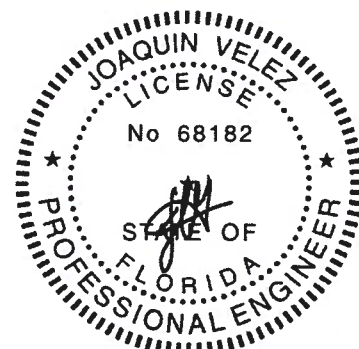
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=155/Mechanical, 2=364/0-4-11, 7=169/Mechanical
Max Horz 2=220(LC 8)
Max Uplift 5=176(LC 8), 2=187(LC 8), 7=103(LC 8)
Max Grav 5=163(LC 32), 2=364(LC 1), 7=203(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=282/174

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 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=176, 2=187, 7=103.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 77 lb up at 1-7-4, 113 lb down and 75 lb up at 3-1-12, and 102 lb down and 83 lb up at 4-2-0, and 132 lb down and 147 lb up at 6-7-10 on top chord, and 17 lb down and 47 lb up at 1-7-4, 24 lb down at 3-1-12, and 27 lb down and 13 lb up at 4-2-0, and 57 lb down and 24 lb up at 6-4-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) 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=54, 6-9=20
Concentrated Loads (lb)
Vert: 5=69(F) 8=1(F) 7=42(F) 3=19(B) 14=26(B) 15=0(B)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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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 ANSITP11 Quality Criteria, DSB-88 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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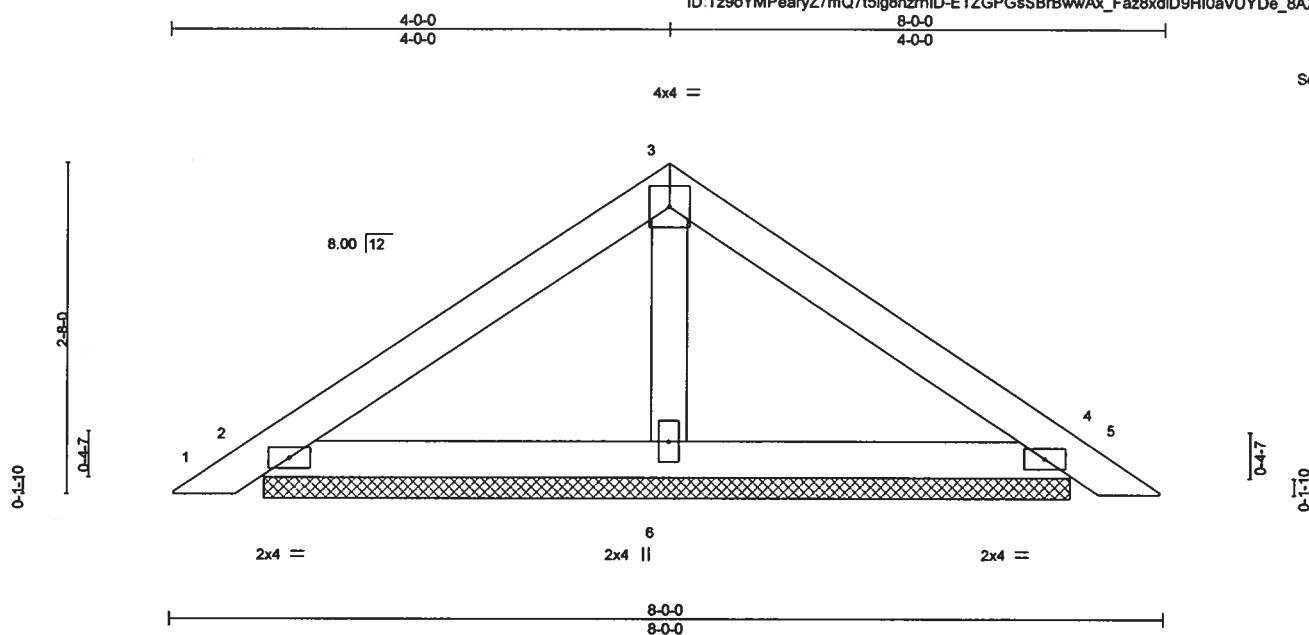
6904 Parke East Blvd.
Tampa, FL 33610

Job 2233370	Truss PB01	Truss Type Piggyback	Qty 22	Ply 1	AARON SIMQUE - KARLTON RES. T19289615
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:09 2020 Page 1
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Scale = 1:17.8



LOADING (psf)	SPACING-		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	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P							
									Weight: 27 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. (lb/size) 2=156/6-5-12, 4=156/6-5-12, 6=219/6-5-12
Max Horz 2=-77(LC 10)
Max Uplift 2=-82(LC 12), 4=-92(LC 13), 6=-42(LC 12)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

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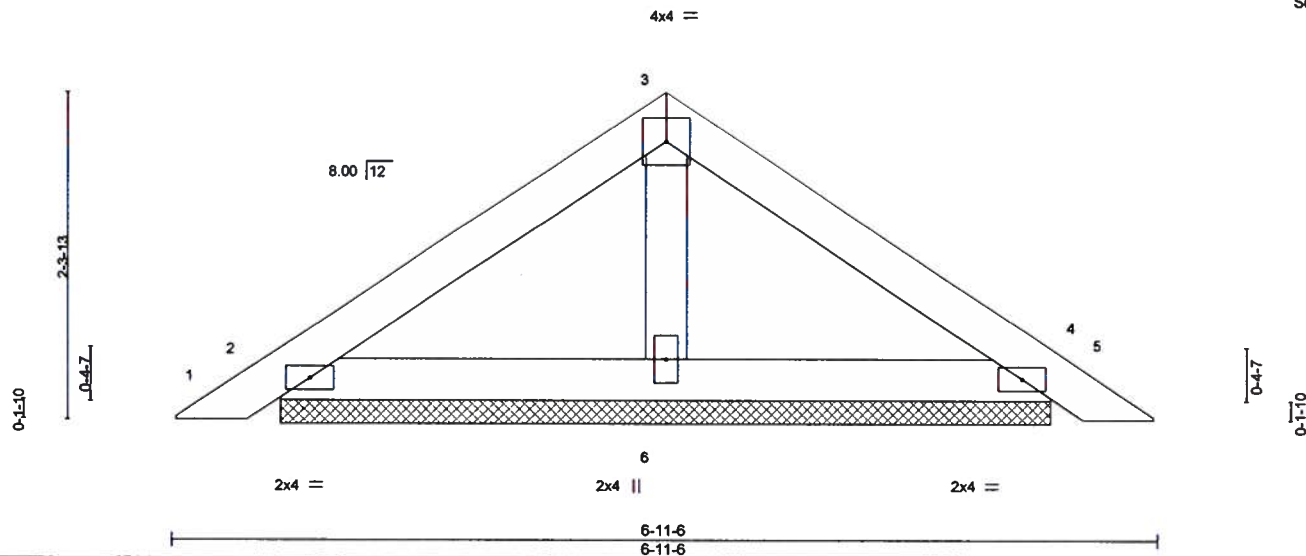
Job 2233370	Truss PB01G	Truss Type GABLE	Qty 2	Ply 1	AARON SIMQUE - KARLTON RES. T19289616
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8 240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:10 2020 Page 1
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3-5-11 3-5-11 6-11-6 3-5-11

Scale = 1:15.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.07	Vert(LL) 0.00 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Vert(CT) 0.00 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code FBC2017/TPI2014			Weight: 23 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. (lb/size) 2=136/5-5-2, 4=136/5-5-2, 6=182/5-5-2
Max Horz 2=-66(LC 10)
Max Uplift 2=-72(LC 12), 4=-80(LC 13), 6=-34(LC 12)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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MiTek USA, Inc. FL Cert 6634
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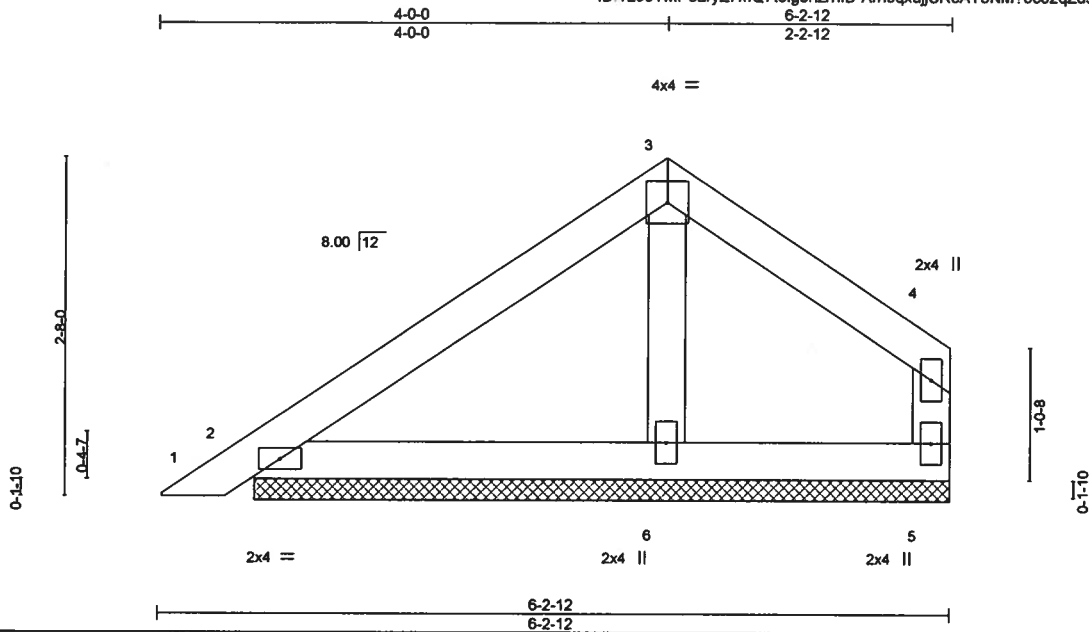
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Tampa, FL 33610

Job 2233370	Truss PB02	Truss Type Piggyback	Qty 3	Ply 1	AARON SIMQUE - KARLTON RES. T19289617
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8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:11 2020 Page 1
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Scale = 1:17.5

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 0.18	Vert(LL)	0.00	1	n/r	120	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	0.00	1	n/r	120	244/190
BCCL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P						
								Weight: 23 lb	FT = 20%

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

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

REACTIONS. (lb/size) 5=67/5-5-10, 2=142/5-5-10, 6=211/5-5-10
Max Horz 2=80(LC 12)
Max Uplift 5=61(LC 13), 2=65(LC 12), 6=61(LC 12)
Max Grav 5=77(LC 20), 2=142(LC 1), 6=219(LC 19)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

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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 BCS Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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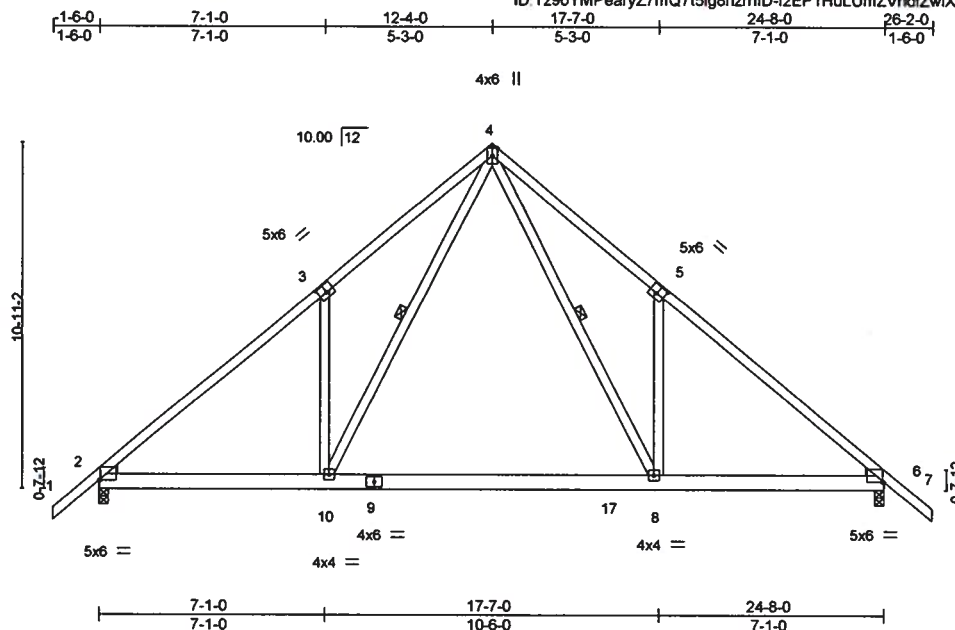
6904 Parke East Blvd.
Tampa, FL 36610

Job 2233370	Truss T01	Truss Type Common	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289618
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MITek Industries, Inc. Thu Jan 30 16:02:12 2020 Page 1

ID Tz9oYMPearyZ7mQ7t5lg8hzmID-f2EP1HuLUMZVndfZwiXrZFNdjUEJnkG_vbDonszq6uP



Scale = 1:69.8

Plate Offsets (X,Y) =		[2:0-0-8,0-0-2], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-0-8,0-0-2]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.22 8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.40 8-10	>741	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.02 6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TP12014	Matrix-MS						Weight: 164 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-8, 4-10

REACTIONS. (lb/size) 2=1309/0-3-8, 6=1309/0-3-8
Max Horz 2=-359(LC 10)
Max Uplift 2=-508(LC 12), 6=-508(LC 13)
Max Grav 2=1345(LC 19), 6=1345(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1806/715, 3-4=-1881/1024, 4-5=-1881/1024, 5-6=-1806/715
BOT CHORD 2-10=-497/1506, 8-10=-183/942, 6-8=-361/1355
WEBS 4-8=-697/1258, 5-8=-492/477, 4-10=-697/1257, 3-10=-492/477

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=508, 6=508.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



Joaquin Velez PE No.68182
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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Job 2233370	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289619
Builders FirstSource, Jacksonville, FL - 32244,					

8.240 s Dec 6 2019 MITek Industries, Inc. Thu Jan 30 16:02:13 2020 Page 1
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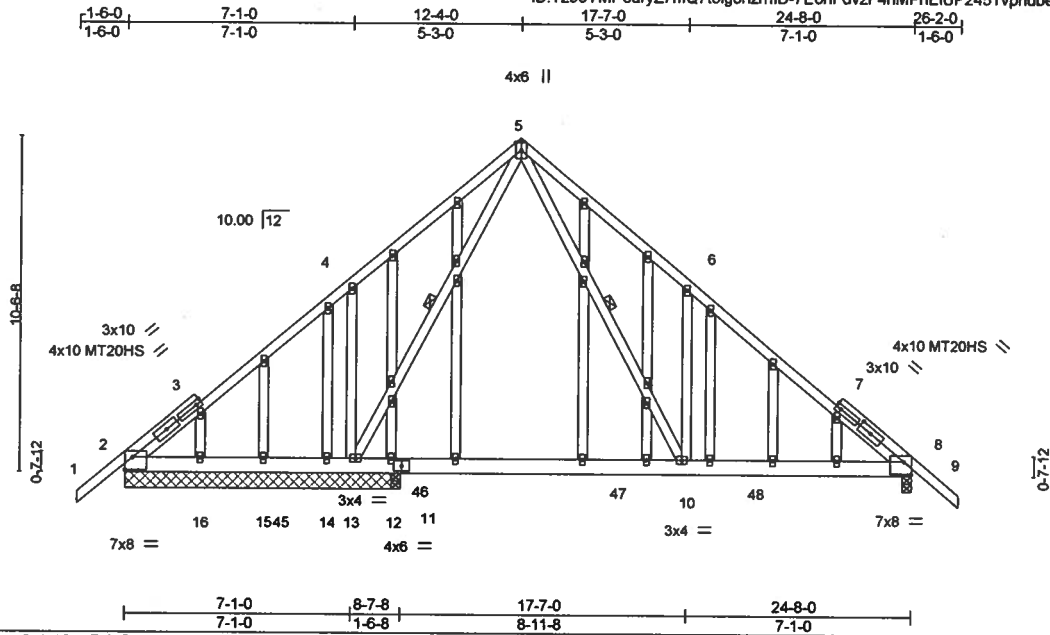


Plate Offsets (X,Y)~ [2:Edge,0-4-12], [7:0-5-0,0-2-0], [8:Edge,0-4-12]															
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.53	Vert(LL)		-0.07	10-12	>999	240	MT20		244/190	
TCDL	7.0	Lumber DOL 1.25		BC	0.38	Vert(CT)		-0.10	10-12	>999	180	MT20HS		187/143	
BCLL	0.0	Rep Stress Incr YES		WB	0.39	Horz(CT)		0.02	8	n/a	n/a	Weight: 240 lb FT = 20%			
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS											

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-10, 5-13

REACTIONS.

All bearings 8-7-8 except (if=length) 8=0-3-8.

(lb) - Max Horz 2=348(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 15 except 8=251(LC 13), 13=631(LC 12), 16=274(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 15, 2 except 8=731(LC 20), 13=605(LC 1), 12=678(LC 18), 12=262(LC 1), 14=330(LC 18), 16=303(LC 19)

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

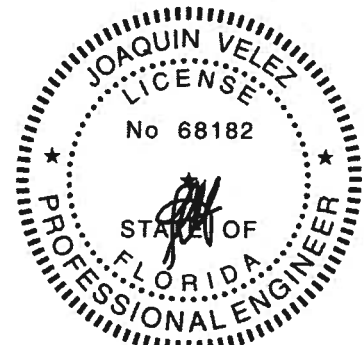
TOP CHORD 2-4=335/339, 5-6=849/519, 6-8=727/212

BOT CHORD 2-16=353/415, 15-16=353/415, 14-15=353/415, 13-14=353/415, 12-13=115/324, 10-12=115/324, 8-10=0/512

WEBS 5-10=527/879, 6-10=509/468, 5-13=614/277, 4-13=470/443

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 15, 2 except (if=lb) 8=251, 13=631, 16=274.



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:
January 31, 2020



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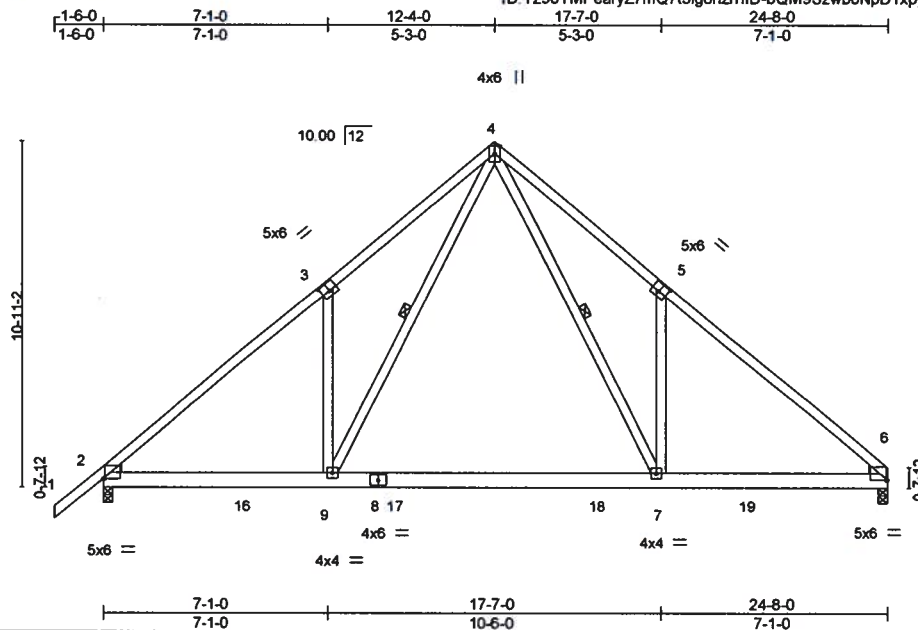
MITek

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Job 2233370	Truss T02	Truss Type Common	Qty 14	Ply 1	AARON SIMQUE - KARLTON RES. T19289620
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Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:14 2020 Page 1
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Scale = 1:69.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	-0.20	7-9	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.37	Vert(CT)	-0.39	7-9	>768	180		
BCLL 0.0	Lumber DOL 1.25	WB 0.48	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS							
	Code FBC2017/TPI2014							Weight: 161 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

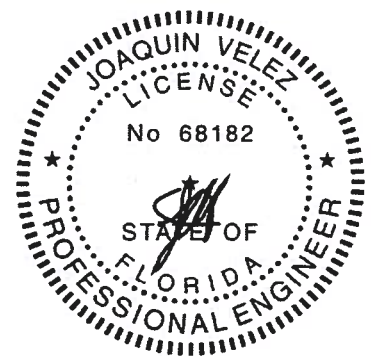
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7, 4-9

REACTIONS. (lb/size) 2=1311/0-3-8, 6=1225/0-3-8
Max Horz 2=346(LC 9)
Max Uplift 2=509(LC 12), 6=456(LC 13)
Max Grav 2=1411(LC 19), 6=1329(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1884/720, 3-4=1924/1029, 4-5=1936/1037, 5-6=1885/727
BOT CHORD 2-9=524/1545, 7-9=210/957, 6-7=403/1397
WEBS 4-7=710/1325, 5-7=491/479, 4-9=696/1310, 3-9=492/477

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=509, 6=456.
 - 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, 9-10=-20, 7-9=-80(F=60), 7-13=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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6904 Parke East Blvd.
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Job 2233370	Truss T02G	Truss Type Common Supported Gable	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289621
Builders FirstSource, Jacksonville, FL - 32244,					

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:16 2020 Page 1
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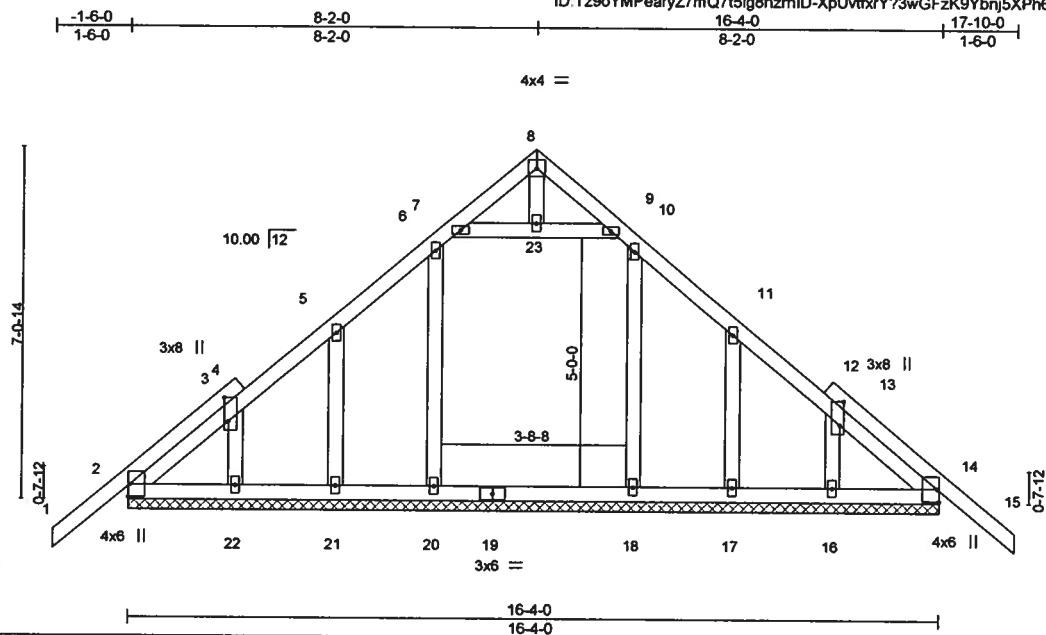


Plate Offsets (X,Y)-- [3:0-5-11,0-1-0], [13:0-5-11,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.14	Vert(CT)	-0.01	15	n/r	120		
BCLL 0.0	Lumber DOL 1.25	WB 0.09	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S							
	Code FBC2017/TPI2014								
								Weight: 106 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.

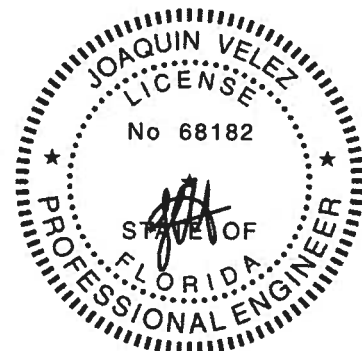
REACTIONS.

All bearings 16-4-0.
(lb) - Max Horz 2=239(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 20, 18 except 21=139(LC 12), 22=126(LC 12),
17=144(LC 13), 16=124(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 21, 22, 17, 16 except 20=327(LC 19), 18=282(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 20, 18 except (jt=lb) 21=139, 22=126, 17=144, 16=124.



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Date:

January 31,2020



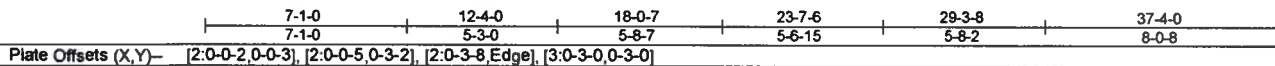
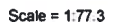
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8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:17 2020 Page 1
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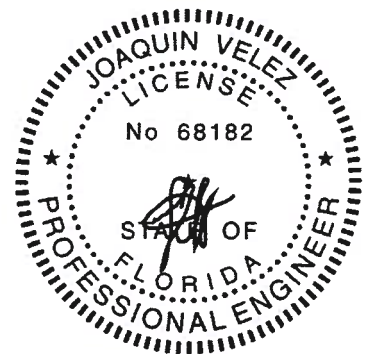


LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-8 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 5-8-1 oc bracing.
	8-13: 2x6 SP No.2	WEBS	1 Row at midpt 4-17
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3			

FORCES. (lb) - Max. Comp/Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1311/589, 3-4=1015/619, 4-5=993/591, 5-6=1234/659, 6-8=981/509,
8-9=235/447, 9-10=147/271
BOT CHORD 12-13=394/1076, 17-18=394/1077, 15-17=386/1162, 14-15=310/917, 13-14=271/245,
18-19=1481/886, 8-12=1264/693
WEBS 3-17=523/380, 4-17=563/975, 5-17=679/483, 6-15=118/348, 6-14=565/351,
8-14=640/1368, 9-12=529/579

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDD=4.2psf, BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2-399, 13=605, 10=284.



Joaquin Velez PE No.68182
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Components**.

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

Job 2233370	Truss T03G	Truss Type GABLE	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289623
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MITek Industries, Inc. Thu Jan 30 16:02:19 2020 Page 1
ID: Tz9oYMPearyZ7mQ715lg8hzmlD-x092Vh_kqwRV7iivqg9ULk9p1JdHw_mOWBPgWyzq6ul

1-6-0 12-4-0 18-0-7 29-3-8 37-4-0 38-10-0
1-6-0 12-4-0 5-8-7 11-3-1 8-0-8 1-6-0

Scale = 1:82.4

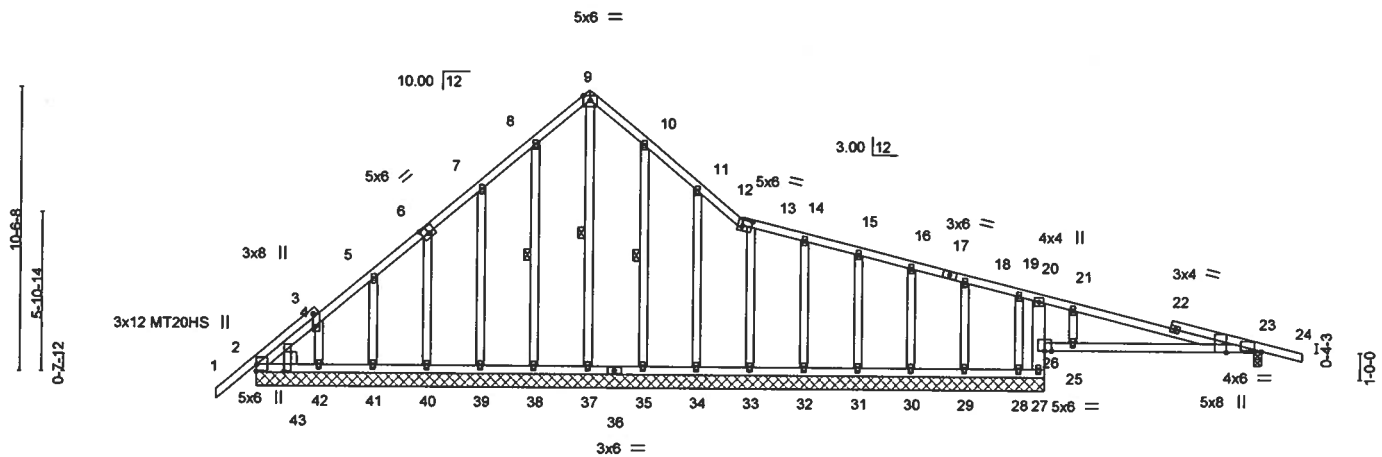


Plate Offsets (X,Y)-	[2:0-3-0,1-0-4], [3:0-5-11,0-1-0], [6:0-3-0,0-3-0], [12:0-0-5,0-1-4], [12:0-3-15,0-2-8], [13:0-1-13,0-0-0], [23:0-3-4,0-0-5], [23:0-0-9,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(LL) 0.17 23-25 >563 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Vert(CT) -0.17 23-25 >561 180		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S	Horz(CT) 0.02 23 n/a n/a		
				Weight: 254 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
20-27: 2x6 SP No.2	10-0-0 oc bracing: 26-27,25-26,23-25.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 9-37, 8-38, 10-35
WEDGE	
Left: 2x6 SP No.2	

REACTIONS. All bearings 29-3-8 except (jt=length) 23=0-3-8.
(lb) - Max Horz 2=338(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 33, 32, 31, 30, 29, 43 except
26=447(LC 9), 23=278(LC 9), 38=132(LC 12), 39=143(LC 12), 40=137(LC 12),
41=124(LC 12), 42=117(LC 12), 35=127(LC 13), 34=144(LC 13), 28=177(LC
1), 2=102(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 27, 38, 39, 40, 41, 42, 35, 34,
33, 32, 31, 30, 29, 28, 2, 43 except 26=568(LC 1), 23=343(LC 1), 37=360(LC
22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=339/304, 3-5=256/292, 5-6=158/269, 8-9=145/272, 9-10=146/253
2-43=130/272, 42-43=126/269, 41-42=129/272, 40-41=129/272, 39-40=131/273,
38-39=131/273, 37-38=131/273, 35-37=131/273, 34-35=131/273, 33-34=131/273,
32-33=131/273, 31-32=131/273, 30-31=131/273, 29-30=131/273, 28-29=131/273,
27-28=131/273, 20-26=387/468
WEBS 9-37=320/71

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) N/A
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * 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.
 - 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



Joaquin Velez PE No.68182
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

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-99 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 33610

Job 2233370	Truss T03G	Truss Type GABLE	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289623 Job Reference (optional)
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:20 2020 Page 2
ID: Tz9oYMPearyZ7mQ7t5lg8hzmiD-QajQj0?MbDZMIsH5OOgixi_njzWMR?9kr9D3Pzq6uH

NOTES-

- 11) Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 32, 31, 30, 29, 43 except (jt=lb) 26=447, 23=278, 38=132, 39=143, 40=137, 41=124, 42=117, 35=127, 34=144, 28=177, 2=102.

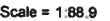
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:21 2020 Page 1
aryZ7mQ715lg8hzrnlD-umHowM?_MXhDM0rly5ByQ9EA m7lIOjP JzVunbrzq6uG



REACTIONS. (lb/size) 2=1120/0-3-8, 11=214/0-3-8, 14=1613/0-3-0
Max Horz 2=350(LC 10)
Max Uplift 2=392(LC 12), 11=196(LC 9), 14=613(LC 13)
Max Grav 2=1120(LC 1), 11=233(LC 24), 14=1613(LC 1)

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

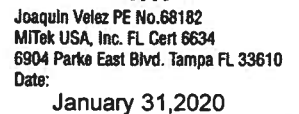
TOP CHORD 2-3=1307/587, 3-4=1082/623, 4-5=1078/597, 5-6=1444/741, 6-8=1125/615,
9-10=255/678

BOT CHORD 2-22=385/1071, 4-19=570/1064, 18-19=468/1366, 17-18=409/1076, 8-16=890/425,
13-14=1358/657, 9-13=1134/578

WEBS 19-22=386/1072, 3-19=402/325, 5-19=803/543, 6-18=119/390, 6-17=542/300,
8-17=459/1067, 14-16=535/285, 9-16=395/958, 10-13=550/363

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDFL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=392, 11=196, 14=613.



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 BCS1 Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job 2233370	Truss T05	Truss Type Roof Special	Qty 5	Ply 1	AARON SIMQUE - KARLTON RES. T19289625
Job Reference (optional)					

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:24 2020 Page 1
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4x4 =

Scale = 1:67.7

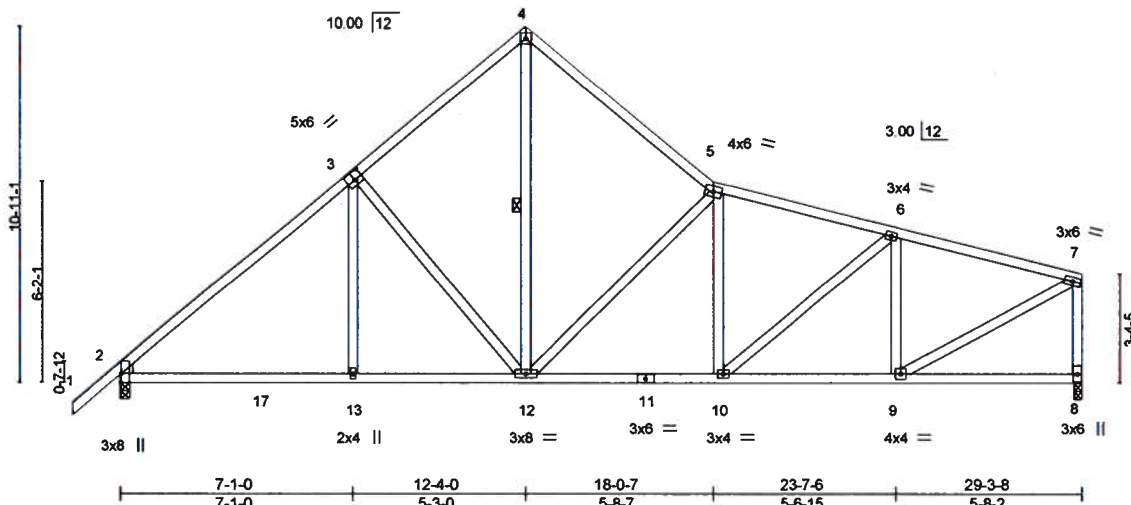


Plate Offsets (X,Y)- [2:0-0-2,0-0-3], [2:0-0-5,0-3-2], [2:0-3-8,Edge], [3:0-3-0,0-3-0]

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 0.54	Vert(LL)	0.09 13-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.14 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-MS						
								Weight: 185 lb	FT = 20%

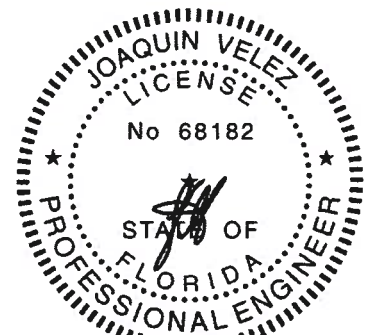
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-10-0 oc bracing.
WEBS 1 Row at midpt 4-12

REACTIONS. (lb/size) 2=1161/0-3-8, 8=1076/0-3-0
Max Horz 2=345(LC 12)
Max Uplift 2=404(LC 12), 8=411(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1368/612, 3-4=1057/643, 4-5=1050/615, 5-6=1357/711, 6-7=1189/595, 7-8=1024/544
BOT CHORD 2-13=463/1075, 12-13=463/1076, 10-12=572/1278, 9-10=539/1123
WEBS 3-12=520/380, 4-12=593/1024, 5-12=782/526, 6-10=103/263, 6-9=502/332, 7-9=600/1257

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=404, 8=411.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

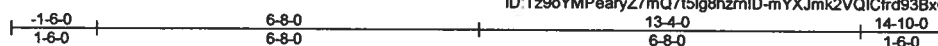
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2233370	Truss T06	Truss Type Common	Qty 3	Ply 1	AARON SIMQUE - KARLTON RES. T19289626
Builders FirstSource, Jacksonville, FL - 32244,					
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:25 2020 Page 1					
ID: Tz9oYMPearyZ7mQ7t5lg8hzmlD-mYXJmk2VQICfrd93BxGua?PsokgUKjyuu7s_kczq6uC					
Job Reference (optional)					



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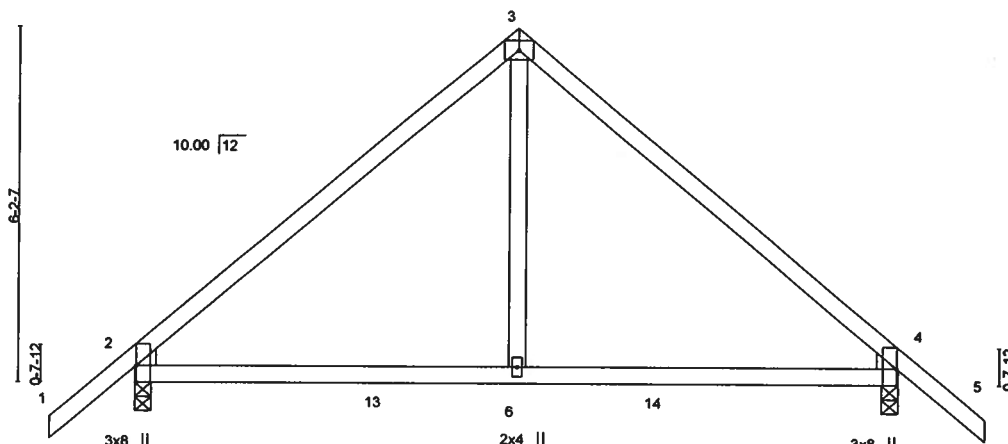


Plate Offsets (X,Y)-	[2:0-0-2,0-0-3], [2:0-0-5,0-3-2], [2:0-3-8,Edge], [4:0-0-2,0-0-3], [4:0-0-5,0-3-2], [4:0-3-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL) 0.10	6-9	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.44	Vert(CT) -0.11	6-9	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.02	4	n/a	n/a			
BCDL 10.0	Code FBC2017/TP12014	Matrix-MS							
									Weight: 61 lb FT = 20%

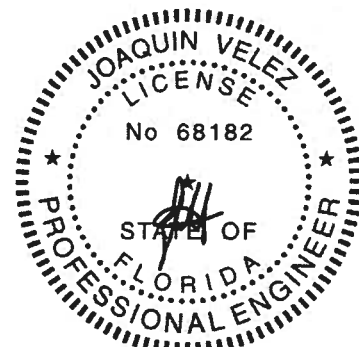
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) 2=574/0-3-8, 4=574/0-3-8
Max Horz 2=-212(LC 10)
Max Uplift 2=-219(LC 12), 4=-219(LC 13)
Max Grav 2=599(LC 19), 4=599(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-589/237, 3-4=-589/237
BOT CHORD 2-6=-46/436, 4-6=-46/436
WEBS 3-6=-38/323

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=219, 4=219.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

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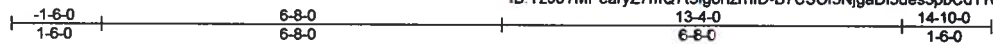
MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job 2233370	Truss T06G	Truss Type Common Supported Gable	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES.	T19289627
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:28 2020 Page 1
ID: Tz9oYMPearyZ7mQ7I5g8hzmlD-B7CSOI5NjgaDi5ues3pbCd1TcxoNX4ZLa55eLxzq6u9



4x4 =

Scale = 1:37.0

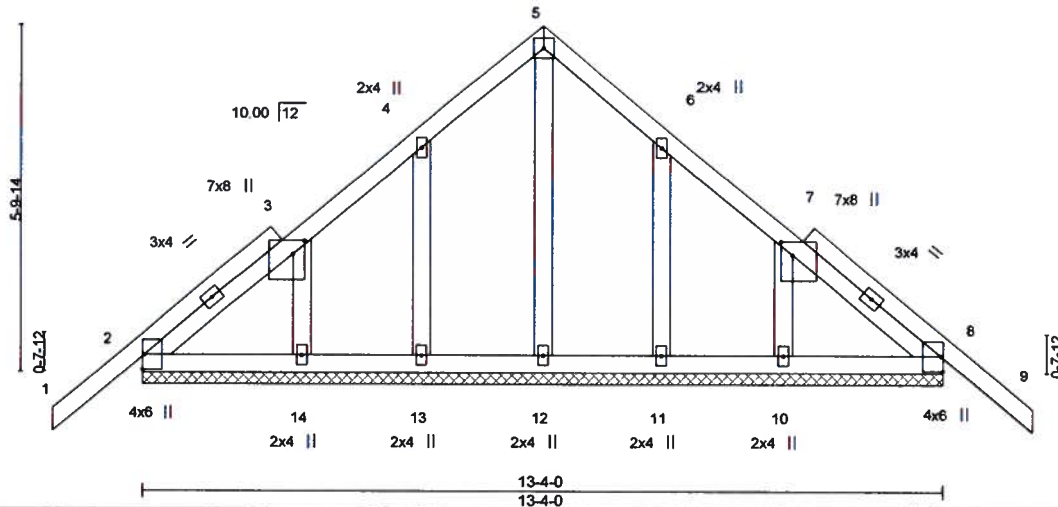


Plate Offsets (X,Y) - [3:0-2-11,0-2-4], [7:0-2-11,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.01	9	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.05	Vert(CT)	-0.01	9	n/r		
BCLL 0.0	Lumber DOL 1.25	WB 0.07	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code FBC2017/TPI2014						Weight: 85 lb	FT = 20%

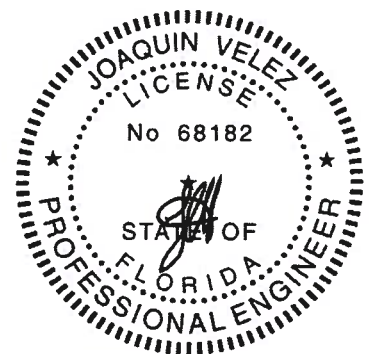
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 13-4-0.
(lb) - Max Horz 2=200(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=137(LC 12), 14=149(LC 12), 11=138(LC 13), 10=145(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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; TCCL=4.2psf; BCDL=3.0psf, h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 requires continuous bottom chord bearing.
 - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 13=137, 14=149, 11=138, 10=145.
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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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 33610

Job 2233370	Truss T07	Truss Type Common	Qty 2	Ply 1	AARON SIMQUE - KARLTON RES. T19289628
Builders FirstSource, Jacksonville, FL - 32244,					

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:29 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmID-fJmqc56?U_i4KFTqQnKqlraYtL1YGXxUplqCtNzq6u8



4x6 =

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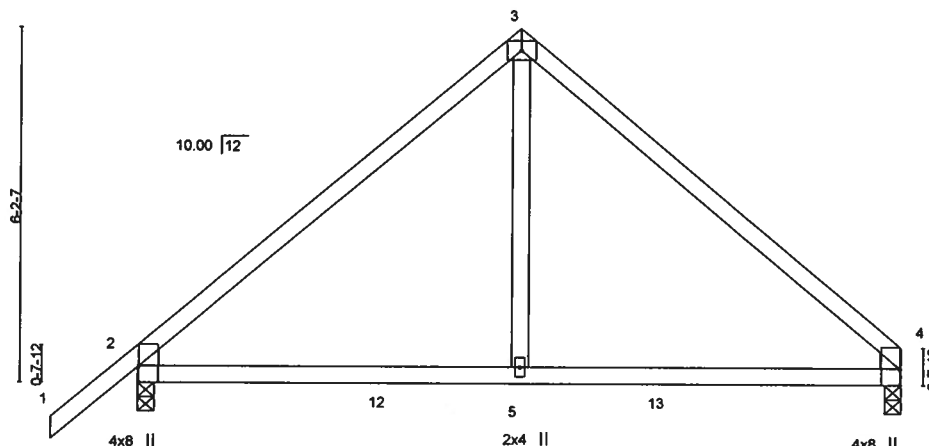


Plate Offsets (X,Y)-	[2:0-0-2,0-0-3], [2:0-0-5,0-3-2], [2:0-3-8,Edge], [4:0-0-2,0-0-3], [4:0-0-5,0-3-2], [4:0-3-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.43	Vert(LL) 0.11 5-11 >999 240		
BCLL 0.0	Lumber DOL 1.25	WB 0.12	Vert(CT) -0.11 5-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 4 n/a n/a		
	Code FBC2017/TPI2014			Weight: 59 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=579/0-3-8, 4=489/0-3-8
Max Horz 2=199(LC 9)
Max Uplift 2=220(LC 12), 4=165(LC 13)
Max Grav 2=601(LC 19), 4=516(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=598/250, 3-4=591/248
BOT CHORD 2-5=74/420, 4-5=74/420
WEBS 3-5=51/325

- 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=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=220, 4=165.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

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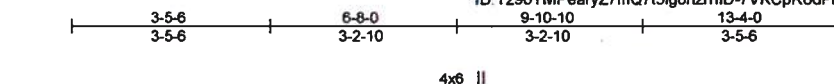
6904 Parke East Blvd.
Tampa, FL 36610

Job 2233370	Truss T08	Truss Type Common Girder	Qty 1	Ply 2	AARON SIMQUE - KARLTON RES.	T19289629
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Builders FirstSource, Jacksonville, FL - 32244,

8,240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:30 2020 Page 1

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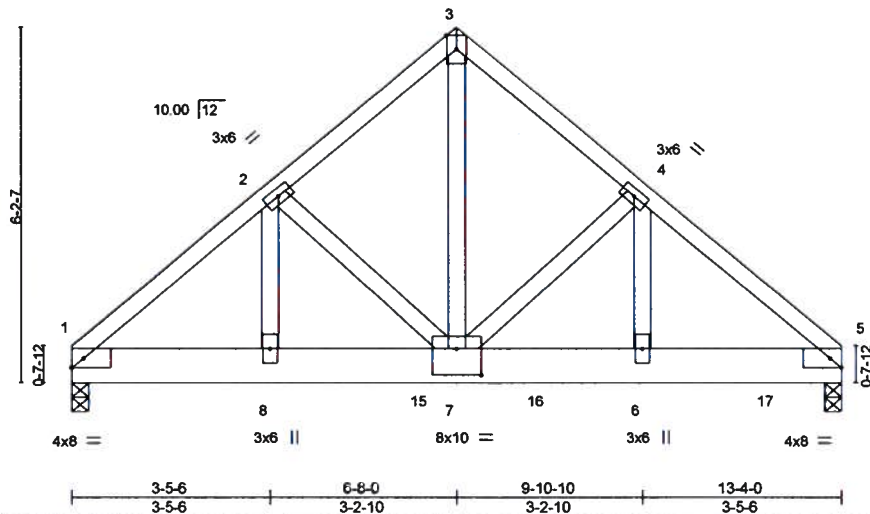


Plate Offsets (X,Y)- [5-0-2-7,Edge], [7-0-5-0,0-5-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	0.05	7-8	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	-0.06	7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.77	Horz(CT)	0.01	5	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						

Weight: 190 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

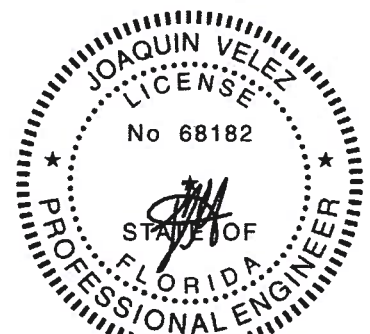
REACTIONS. (lb/size) 1=2558/0-3-8, 5=3723/0-3-8
Max Horz 1=173(LC 25)
Max Uplift 1=1369(LC 8), 5=1725(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=3576/1955, 2-3=3338/1875, 3-4=3339/1876, 4-5=4382/2114
BOT CHORD 1-8=1525/2693, 7-8=1525/2693, 6-7=1570/3320, 5-6=1570/3320
WEBS 3-7=2268/4021, 4-7=1082/452, 4-6=353/1252, 2-7=240/276

- NOTES-**
- 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 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1369, 5=1725.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2513 lb down and 1746 lb up at 6-0-12, 927 lb down and 358 lb up at 8-0-12, and 927 lb down and 355 lb up at 10-0-12, and 927 lb down and 355 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=54, 3-5=54, 9-12=20
Concentrated Loads (lb)
Vert: 6=927(F) 15=2513(F) 16=927(F) 17=927(F)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

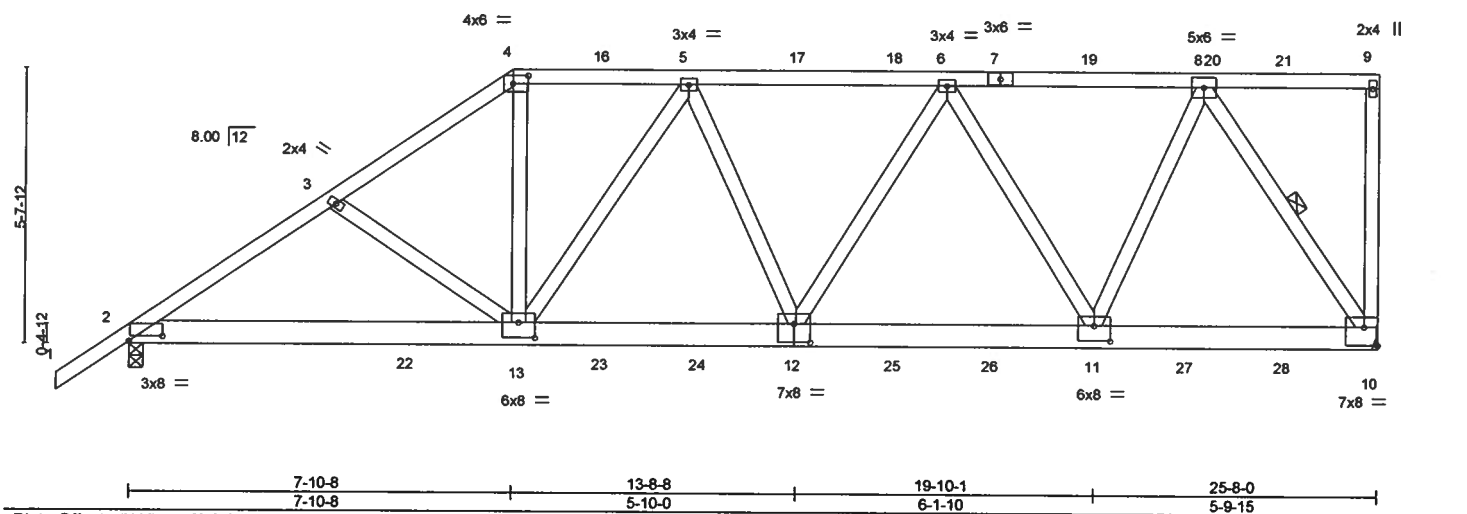
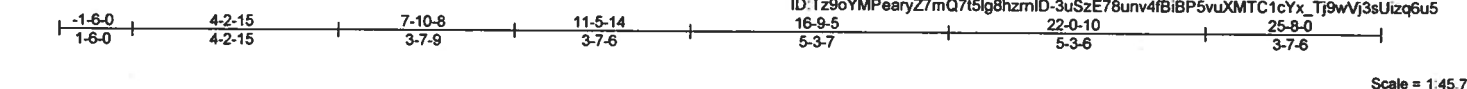
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2233370	Truss T09	Truss Type Half Hip Girder	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289630
Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:32 2020 Page 1					
Job Reference (optional) ID: Tz9oYMPearyZ7mQ7t5lg8hzmlD-3uSzE78unv4fBiBP5vuXMTc1cYx_Tj9wVj3sUizq6u5					



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.90	0.18 13-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.73	Vert(CT) -0.22 13-15 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 10 n/a n/a		
	Code FBC2017/TP12014			Weight: 175 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-13 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-0-10 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 8-10
REACTIONS. (lb/size) 10=2533/Mechanical, 2=2110/0-3-8	
Max Horz 2=299(LC 8)	
Max Uplift 10=1726(LC 5), 2=1270(LC 8)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=3280/2015, 3-4=3103/1958, 4-5=2564/1687, 5-6=2937/1916, 6-8=2096/1360	
BOT CHORD 2-13=1860/2709, 12-13=1897/2858, 11-12=1738/2606, 10-11=909/1351	
WEBS 3-13=263/242, 4-13=923/1517, 5-13=546/470, 6-12=386/653, 6-11=1015/751, 8-11=1165/1923, 8-10=2434/1640	

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 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 (if=lb) 10=1726, 2=1270.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 90 lb up at 7-10-8, 90 lb down and 81 lb up at 9-8-12, 90 lb down and 81 lb up at 11-8-12, 90 lb down and 81 lb up at 13-8-12, 90 lb down and 81 lb up at 15-8-12, 90 lb down and 81 lb up at 17-8-12, 90 lb down and 81 lb up at 19-8-12, and 90 lb down and 81 lb up at 21-8-12, and 90 lb down and 81 lb up at 23-8-12 on top chord, and 343 lb down and 308 lb up at 5-8-12, 232 lb down and 155 lb up at 7-8-12, 232 lb down and 155 lb up at 9-8-12, 232 lb down and 155 lb up at 11-8-12, 232 lb down and 155 lb up at 13-8-12, 232 lb down and 155 lb up at 15-8-12, 232 lb down and 155 lb up at 17-8-12, 232 lb down and 155 lb up at 19-8-12, 232 lb down and 155 lb up at 21-8-12, and 232 lb down and 155 lb up at 23-8-12, and 208 lb down and 199 lb up at 25-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=54, 4-9=54, 2-10=20

Professional Engineer Seal for Joaquin Velez, License No. 68182, State of Florida.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31, 2020

Job 2233370	Truss T09	Truss Type Half Hip Girder	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES T19289630 Job Reference (optional)
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:32 2020 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-5(B) 7=-5(B) 10=-194(B) 13=-232(B) 5=-5(B) 12=-232(B) 11=-232(B) 16=-5(B) 17=-5(B) 18=-5(B) 19=-5(B) 20=-5(B) 21=-5(B) 22=-343(B) 23=-232(B)
24=-232(B) 25=-232(B) 26=-232(B) 27=-232(B) 28=-232(B)

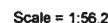
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8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:33 2020 Page 1
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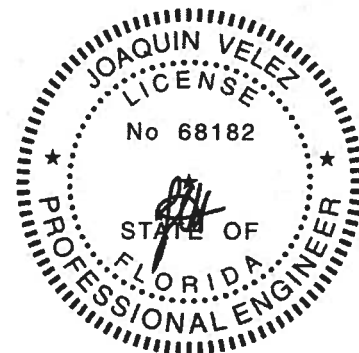
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-12 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-2-4 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Right 2x6 SP No.2 1-11-8		

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

TOP CHORD	2-3=1400/613, 3-5=1301/657, 5-6=1212/626, 6-8=1281/584
BOT CHORD	2-11=509/1295, 5-11=173/782, 8-9=392/1000
WEBS	3-11=433/375, 9-11=305/687, 5-9=265/555, 6-9=346/345

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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) 8=335, 2=396.



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

January 31, 2020

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

WARNING – verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-743 rev. 10/03/2015 BEFORE USE.

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Tampa, FL 36610

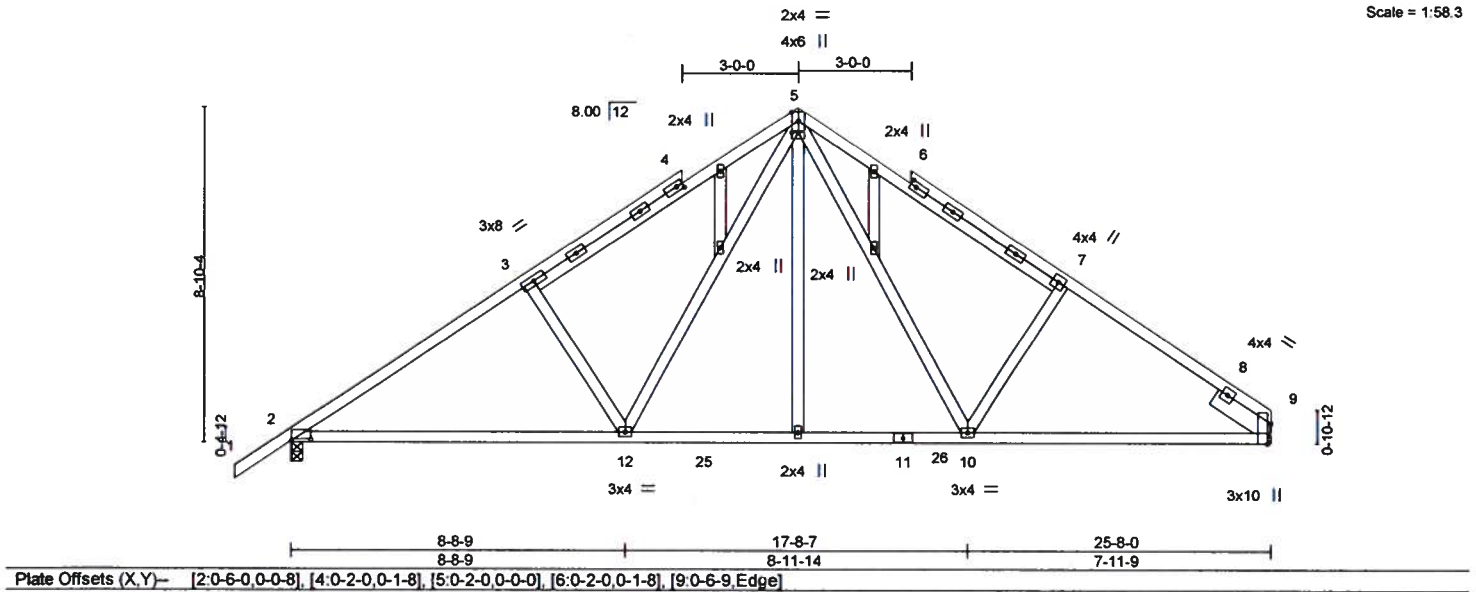
Job 2233370	Truss T10G	Truss Type GABLE	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES.	T19289632
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:34 2020 Page 1
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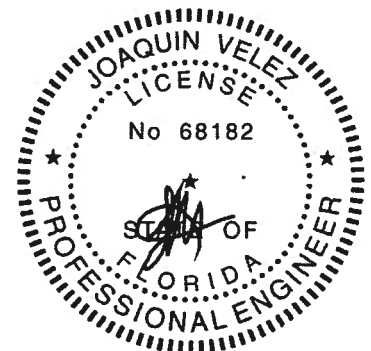


LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.32 10-12 >973 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.46 10-12 >675 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06 9 n/a n/a				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							
								Weight: 166 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP M 31 *Except 1-4,6-9: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-2-15 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		
SLIDER	Right 2x6 SP No.2 1-9-3		
REACTIONS. (lb/size) 2=1033/0-3-8, 9=947/Mechanical			
Max Horz 2=282(LC 9)			
Max Uplift 2=398(LC 12), 9=338(LC 13)			
Max Grav 2=1037(LC 19), 9=951(LC 20)			

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=1399/610, 3-5=1290/639, 5-7=1186/603, 7-9=1270/574
BOT CHORD 2-12=499/1285, 10-12=185/806, 9-10=379/984
WEBS 3-12=389/348, 5-12=282/645, 5-10=236/499, 7-10=281/309

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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 3x6 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, with BCDL = 10.0psf.
 - 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=398, 9=338.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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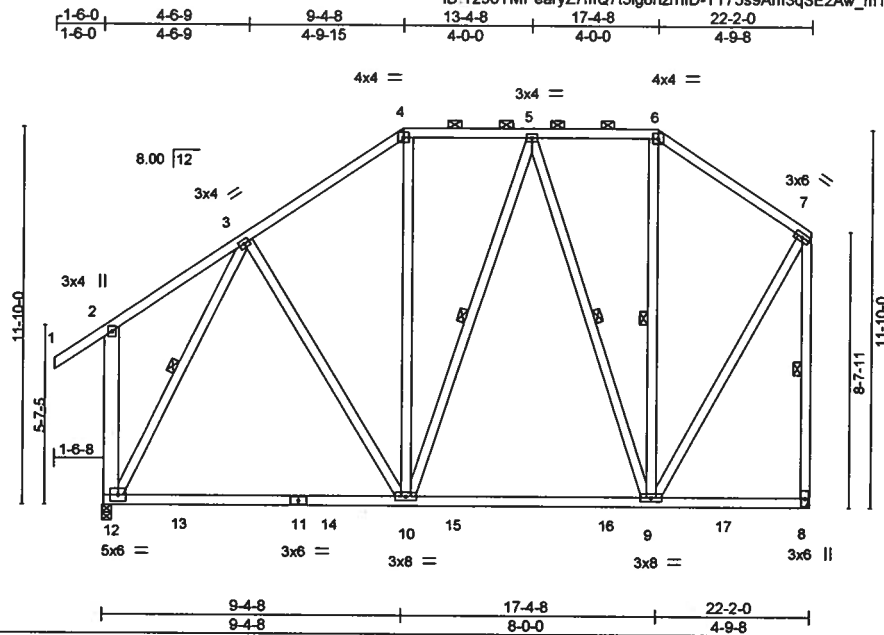


6904 Parke East Blvd.
Tampa, FL 33610

Job 2233370	Truss T11	Truss Type Piggyback Base	Qty 2	Ply 1	AARON SIMQUE - KARLTON RES. T19289633
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:35 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmlD-TT75s9Am3qSE2Aw_m1RE_6pdBm_Ag8xMBhHW51zq6u2



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 0.27	Vert(LL)	-0.25 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.42 10-12	>615	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-MS						

Weight: 207 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-12: 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.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-10, 5-9, 6-9, 3-12, 7-8

REACTIONS.

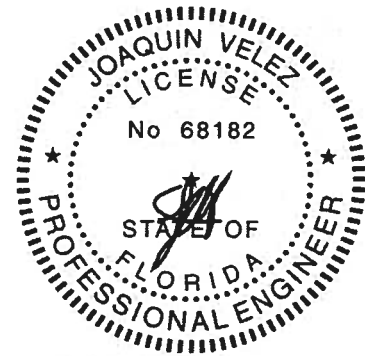
(lb/size) 12=904/0-3-8, 8=801/Mechanical
Max Horz 12=346(LC 10)
Max Uplift 12=281(LC 12), 8=257(LC 12)
Max Grav 12=950(LC 2), 8=881(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=265/273, 3-4=579/383, 4-5=495/378, 5-6=348/278, 6-7=408/257,
2-12=325/276, 7-8=802/450
BOT CHORD 10-12=334/458, 9-10=212/391
WEBS 5-10=114/262, 5-9=332/263, 3-12=690/252, 7-9=265/584

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=281, 8=257.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

January 31,2020



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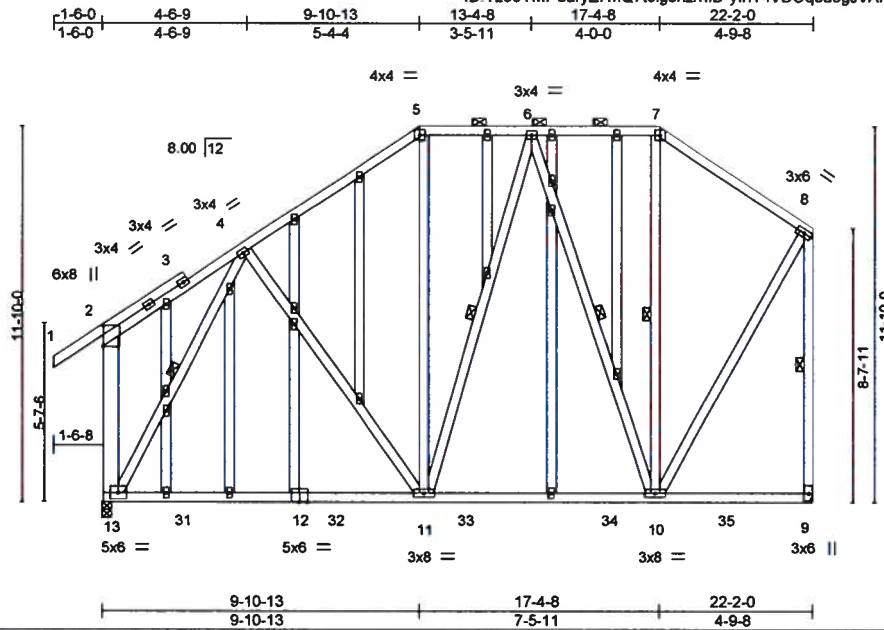
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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - KARLTON RES.
2233370	T11G	GABLE	1	1	T19289634

Builders FirstSource, Jacksonville, FL - 32244,

8 240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:36 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmID-yfhT4VBQ8a5gJVAKJyTXJMofAIJPbCWQK14dTzq6u1



Scale = 1:69.5

Plate Offsets (X,Y) — [2'-0"-7'-9", 0'-0"-0"] [12'-0"-0'-0", 0'-1"-12"] [23'-0"-1'-12", 0'-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	0.29	Vert(LL)	-0.31 11-13 >831 240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.94	Vert(CT)	-0.54 11-13 >483 180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.47	Horz(CT)	0.01 9 n/a n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS				Weight: 289 lb	FT = 20%

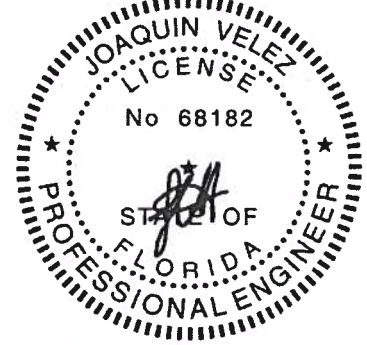
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-13: 2x6 SP No.2
OTHERS 2x4 SP No.3

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.): 5-7.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 6-11, 6-10, 7-10, 4-13, 8-9

REACTIONS. (lb/size) 13=904/0-3-8, 9=801/Mechanical
Max Horz 13=342(LC 10)
Max Uplift 13=286(LC 12), 9=263(LC 12)
Max Grav 13=946(LC 2), 9=877(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=253/250, 4-5=590/371, 5-6=499/375, 6-7=349/278, 7-8=403/256,
2-13=314/257, 8-9=791/448
BOT CHORD 11-13=348/477, 10-11=209/391
WEBS 6-11=129/295, 6-10=346/252, 4-13=678/276, 8-10=264/575

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 13=286, 9=263.
 - 12) 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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Date: January 31, 2020

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Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:38 2020 Page 1
ID:Tz9oYMPearyZ7mQ7I5lg8hzmlD-u2pEUACfmlqpvdIZS9?xckR6Tz3KIUVpteWAHMzq6u?



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - KARLTON RES.	T19289635
2233370	T12	Piggyback Base	12	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:38 2020 Page 2
ID: Tz9oYMPearyZ7mQ7t5lg8hzmlD-u2pEUACfMIqpvdZS9?xckR6Tz3KIUVpteWAhMzq6u?

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-7=-54, 7-9=-54, 9-11=-54, 11-12=-54, 20-22=-20, 16-19=-30(F=-10), 13-16=-30(F=-10)

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

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2233370	Truss T12G	Truss Type GABLE II	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289636
Builders FirstSource, Jacksonville, FL - 32244,					

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:41 2020 Page 1
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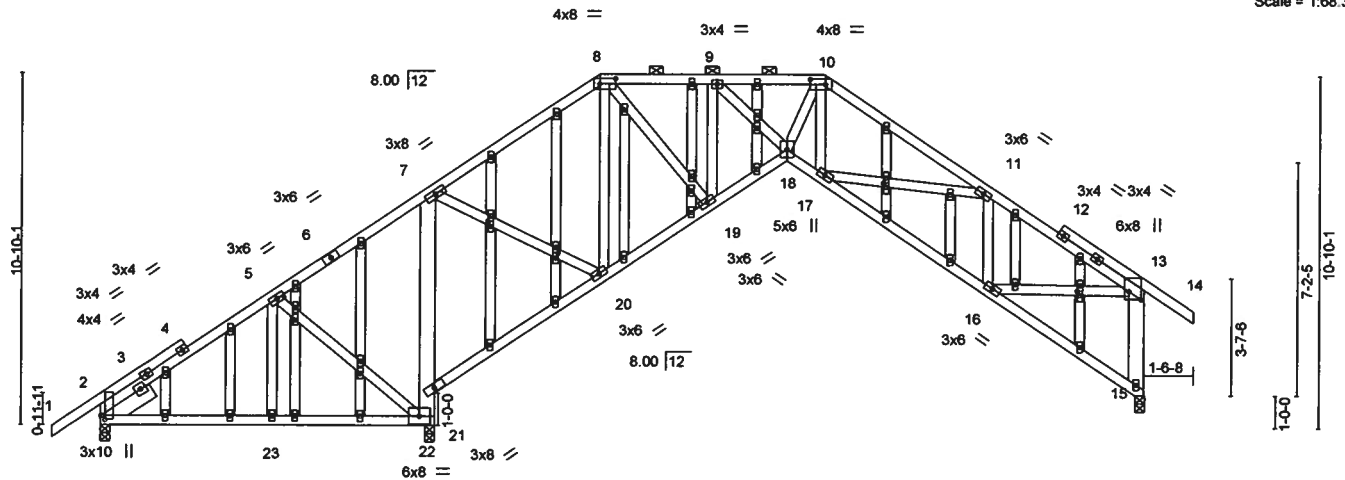


Plate Offsets (X,Y) -	[2:0-1-8,0-1-7], [8:0-5-12,0-2-0], [10:0-5-12,0-2-0], [13:0-3-0,Edge], [28:0-1-8,0-1-0], [35:0-1-9,0-1-0], [52:0-1-14,0-1-0], [55:0-1-14,0-1-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	-0.06	18	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.11	18	>999	180	
BCLL 0.0	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.13	15	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
Weight: 294 lb									FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-10 max.); 8-10.
BOT CHORD 2x4 SP No.2 *Except* 7-22: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-9-1 oc bracing.
WEBS 2x4 SP No.3 *Except* 13-15: 2x6 SP No.2	
OTHERS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-8-15	

REACTIONS. (lb/size) 15=760/0-3-8, 2=137/0-3-8, 22=1635/0-3-8
Max Horz 2=375(LC 11)
Max Uplift 15=322(LC 13), 2=178(LC 8), 22=591(LC 9)
Max Grav 15=760(LC 1), 2=206(LC 23), 22=1635(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=257/406, 5-7=337/639, 7-8=349/310, 8-9=601/382, 9-10=1171/504, 10-11=1236/495, 11-13=959/453, 13-15=731/443
BOT CHORD 2-23=271/76, 22-23=266/70, 21-22=1387/579, 7-21=997/465, 20-21=625/235, 18-19=327/725, 17-18=303/1123, 16-17=384/982
WEBS 5-22=401/456, 7-20=218/712, 8-20=636/253, 8-19=210/692, 9-19=759/260, 9-18=174/811, 10-18=264/476, 11-17=236/269, 11-16=425/235, 13-16=282/741

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; End., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=322, 2=178, 22=591.
 - 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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Date: January 31,2020

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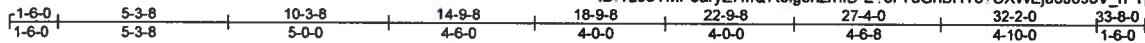
6904 Parke East Blvd.
Tampa, FL 33610

Job 2233370	Truss T13	Truss Type Piggyback Base Girder	Qty 4	Ply 2	AARON SIMQUE - KARLTON RES.	T19289637
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:43 2020 Page 1

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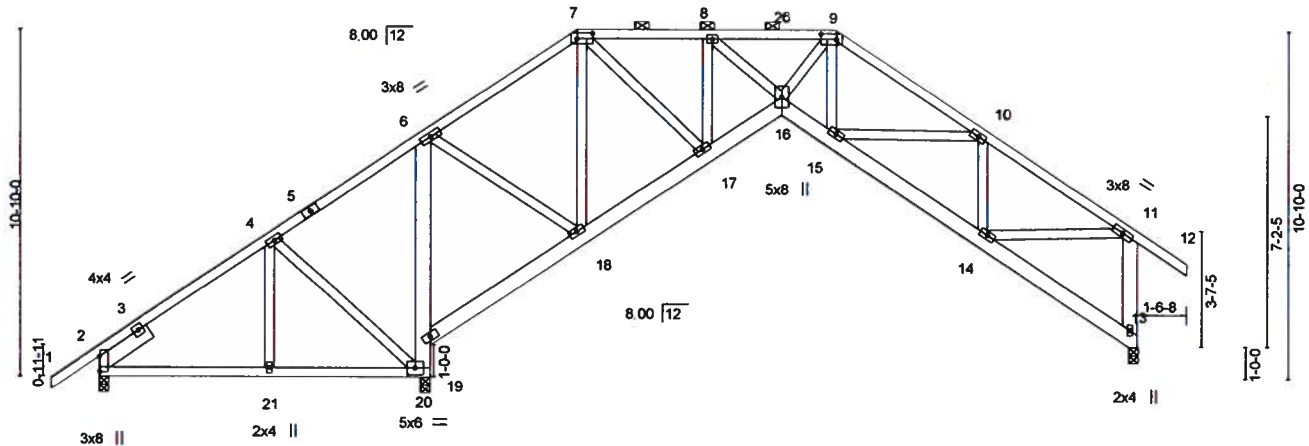


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5-3-8	10-1-12	10-3-8	14-9-8	18-9-8	21-1-0	22-9-8	27-4-0	32-2-0
5-3-8	4-10-4	0-1-12	4-6-0	4-0-0	2-3-8	1-8-8	4-6-8	4-10-0

Plate Offsets (X,Y)- [2:0-5-11,0-0-4], [7:0-5-12,0-2-0], [9:0-5-12,0-2-0]

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 0.25	Vert(LL)	-0.05	16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	-0.09	16	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.32	Horz(CT)	0.11	13	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 482 lb	FT = 20%

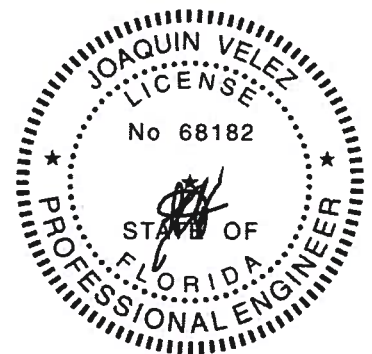
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
 2-20: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
 11-13: 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

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.): 7-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 13=1256/0-3-8, 2=1/0-3-8, 20=2198/0-3-8
 Max Horz 2=503(LC 7)
 Max Uplift 13=563(LC 9), 2=254(LC 27), 20=851(LC 5)
 Max Grav 13=1256(LC 1), 2=150(LC 16), 20=2198(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=247/535, 4-6=263/814, 6-7=302/316, 7-8=1135/548, 8-9=2337/940, 9-10=2114/753, 10-11=1589/684, 11-13=1166/558
BOT CHORD 2-21=419/329, 20-21=419/329, 19-20=1908/647, 6-19=1339/504, 18-19=874/457, 17-18=337/328, 16-17=537/1338, 15-16=619/1955, 14-15=506/1560
WEBS 4-21=133/264, 4-20=428/277, 6-18=329/1009, 7-18=1021/370, 7-17=513/1343, 8-17=1391/563, 8-16=545/1672, 9-16=520/1095, 9-15=258/410, 10-15=377/450, 10-14=661/253, 11-14=430/1224

- NOTES-**
- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf, BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: January 31,2020

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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.



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - KARLTON RES.	T19289637
2233370	T13	Piggyback Base Girder	4	2	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:43 2020 Page 2
ID: Tz9oYMPearyZ7mQ715lg8hzmID-E?c7YuGnBHT5?OXWEja6Jo90V_rPYpMY1wDxmMZq6tw

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=563, 2=254, 20=851.
- 12) Girder carries tie-in span(s): 3-0-0 from 21-1-0 to 32-2-0; 3-0-0 from 21-1-0 to 32-2-0
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 299 lb down and 208 lb up at 21-1-0 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: 1-7=-54, 7-26=-54, 9-26=-72(F=18), 9-11=-73(F=-19), 11-12=-54, 20-22=-20, 16-19=-30(F=-10), 13-16=-49(F=-29)
 - Concentrated Loads (lb)
 - Vert: 16=-299(F)



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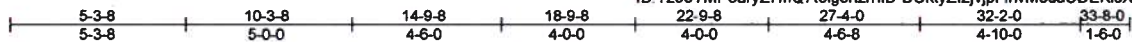
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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - KARLTON RES	T19289638
2233370	T14	Piggyback Base Girder	2	2	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:45 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmlD-B0ktyZl2jvjpFihvM8daODEKloX20j8rUEi2QSzq6tu



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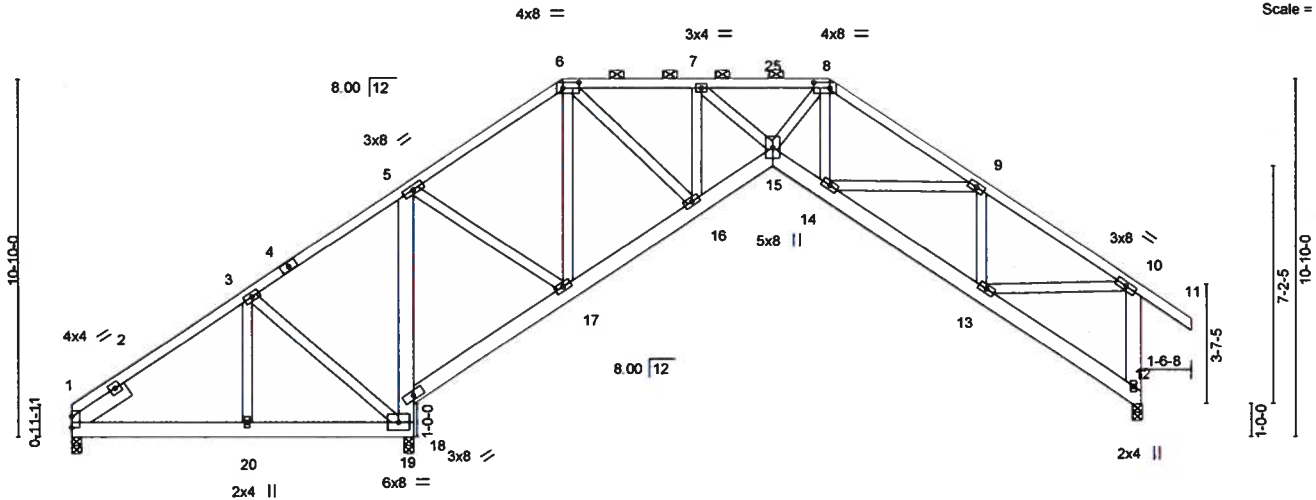


Plate Offsets (X,Y)- [6:0-5-12,0-2-0], [8:0-5-12,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.05	15	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	-0.09	15	>999	180	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.30	Horz(CT)	0.10	12	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 492 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
10-12: 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

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.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 12=1198/0-3-8, 1=214/0-3-8, 19=2389/0-3-8
Max Horz 1=482(LC 7)
Max Uplift 12=545(LC 9), 1=395(LC 20), 19=937(LC 5)
Max Grav 12=1198(LC 1), 1=157(LC 7), 19=2389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=250/709, 3-5=375/1060, 5-6=196/282, 6-7=931/453, 7-8=2061/810,
8-9=1921/662, 9-10=1494/654, 10-12=1108/539
BOT CHORD 1-20=563/351, 19-20=563/351, 18-19=2108/740, 5-18=1409/535, 17-18=1112/497,
16-17=360/355, 15-16=424/1098, 14-15=533/1771, 13-14=476/1465
WEBS 3-20=180/331, 3-19=498/299, 5-17=353/1064, 6-17=1076/396, 6-16=482/1276,
7-16=1323/531, 7-15=497/1572, 8-15=438/903, 8-14=264/408, 9-14=373/378,
9-13=602/235, 10-13=405/1146

- NOTES-**
- 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, 2x6 - 2 rows staggered 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.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=545, 1=395, 19=937.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

Continued on page 2

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Job 2233370	Truss T14	Truss Type Piggyback Base Girder	Qty 2	Ply 2	AARON SIMQUE - KARLTON RES. T19289638
Builders FirstSource, Jacksonville, FL - 32244,			Job Reference (optional)		

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:45 2020 Page 2
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NOTES-

- 12) Girder carries tie-in span(s): 3-0-0 from 21-1-0 to 32-2-0; 3-0-0 from 21-1-0 to 32-2-0
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 299 lb down and 208 lb up at 21-1-0 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: 1-6=-54, 6-25=-54, 8-25=-72(F=18), 8-10=-72(F=18), 10-11=-54, 19-21=-20, 15-18=-30(F=10), 12-15=-49(F=29)
Concentrated Loads (lb)
Vert: 15=-299(F)



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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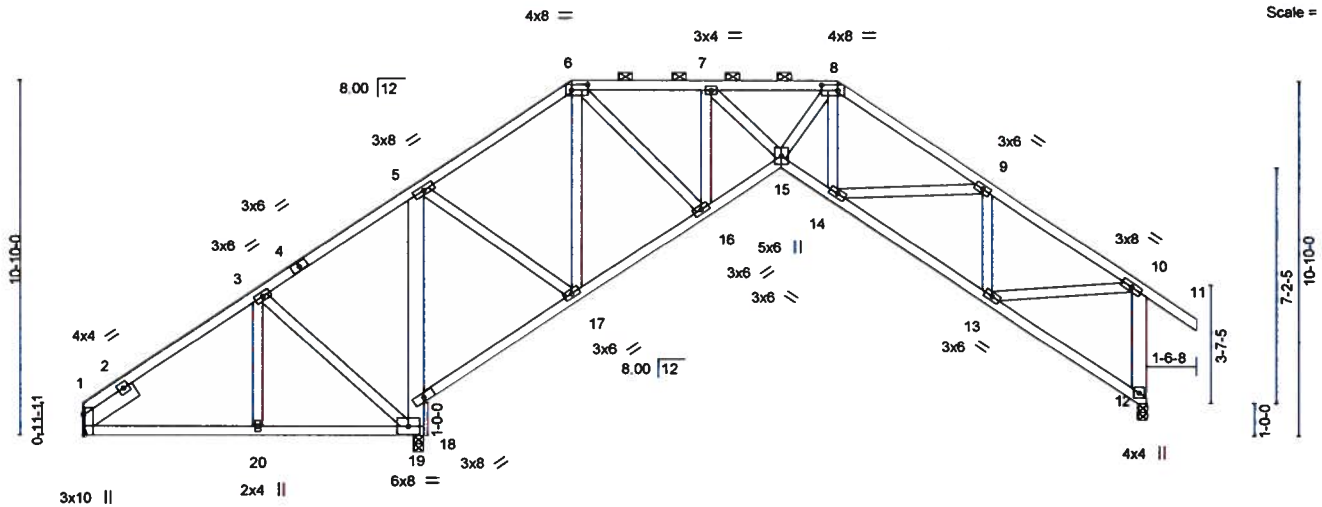
Job 2233370	Truss T15	Truss Type Piggyback Base	Qty 2	Ply 1	AARON SIMQUE - KARLTON RES. T19289639
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Builders FirstSource, Jacksonville, FL - 32244,

8,240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:47 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5ig8hzmlD-7nsdNFJIEVzXU0rTYt2TeJe7b9fUzn8yYB9VKzq6ts

5-3-8	10-3-8	14-9-8	18-9-8	22-9-8	27-4-0	32-2-0	33-8-0
5-3-8	5-0-0	4-6-0	4-0-0	4-0-0	4-6-8	4-10-0	1-6-0

Scale = 1:67.4



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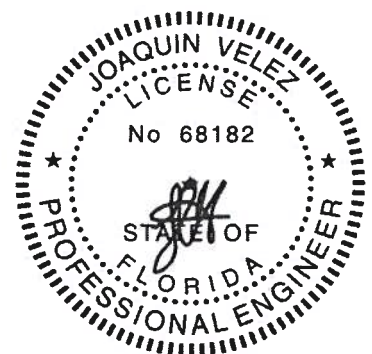
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-15 max.): 6-8.
BOT CHORD 2x4 SP No.2 *Except* 5-19: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-8-15 oc bracing.
WEBS 2x4 SP No.3 *Except* 10-12: 2x6 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-8	
REACTIONS. (lb/size) 12=880/0-3-8, 1=76/Mechanical, 19=1718/0-3-8	
Max Horz 1=370(LC 11)	
Max Uplift 12=369(LC 13), 1=122(LC 8), 19=694(LC 9)	
Max Grav 12=880(LC 1), 1=128(LC 23), 19=1718(LC 1)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=163/365, 3-5=292/548, 5-6=419/391, 6-7=799/578, 7-8=1470/812, 8-9=1356/733, 9-10=1040/592, 10-12=825/549
BOT CHORD 18-19=1436/666, 5-18=1069/538, 17-18=563/246, 16-17=233/320, 15-16=532/964, 14-15=484/1264, 13-14=493/1065
WEBS 3-20=265/252, 3-19=457/500, 5-17=279/749, 6-17=689/298, 6-16=365/864, 7-16=905/406, 7-15=332/954, 8-15=423/691, 9-14=239/291, 9-13=451/260, 10-13=380/801

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; porch 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=369, 1=122, 19=694.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) 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

Continued on page 2



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 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 33610

Job 2233370	Truss T15	Truss Type Piggyback Base	Qty 2	Ply 1	AARON SIMQUE - KARLTON RES. Job Reference (optional)	T19289639
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:47 2020 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: 1-6=-54, 6-8=-54, 8-10=-54, 10-11=-54, 19-21=-20, 15-18=-30(F=-10), 12-15=-30(F=-10)

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6904 Park East Blvd.
Tampa, FL 36610

Job 2233370	Truss T16	Truss Type Piggyback Base	Qty 2	Ply 1	AARON SIMQUE - KARLTON RES. Job Reference (optional)	T19289640
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:48 2020 Page 1

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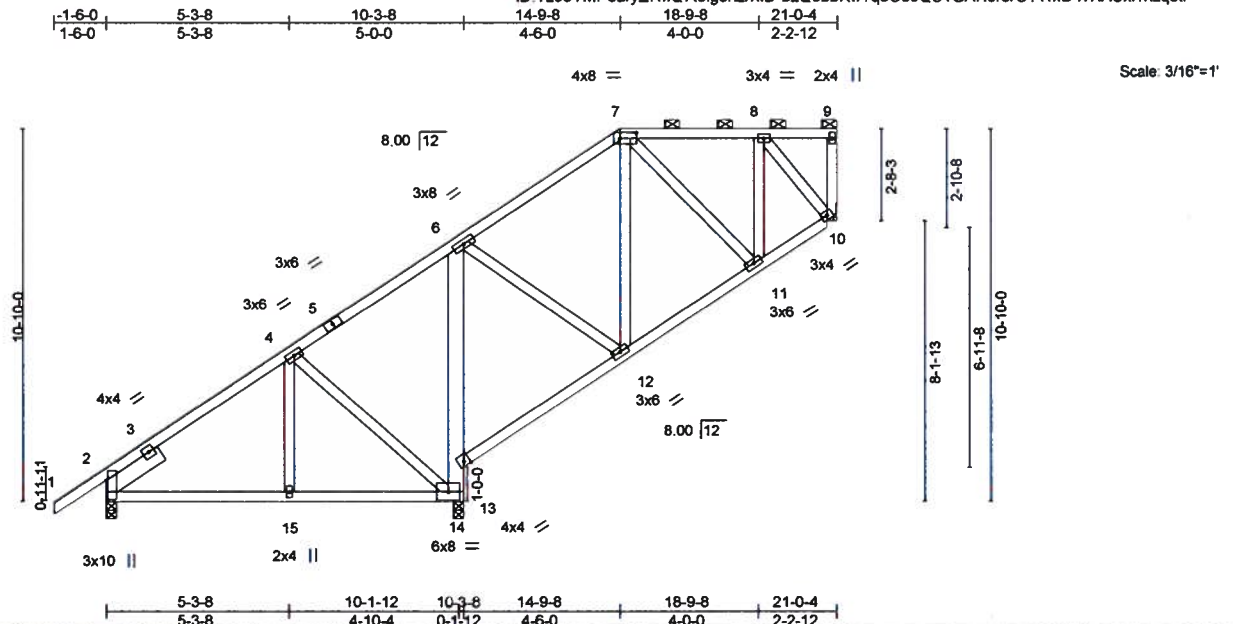


Plate Offsets (X,Y) [2:0-6-11,0-0-8], [7:0-5-12,0-2-0]

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 0.30	Vert(LL)	0.04 15-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	-0.04 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.30	Horz(CT)	-0.02 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-MS						
								Weight: 147 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-14: 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

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.): 7-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

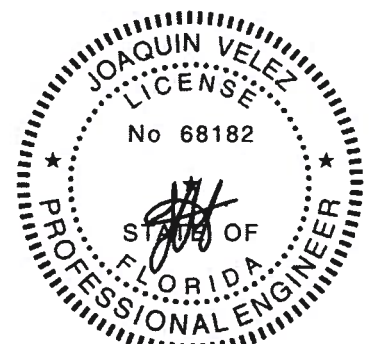
REACTIONS. (lb/size) 2=438/0-3-8, 14=861/0-3-8, 10=435/Mechanical
Max Horz 2=523(LC 12)
Max Uplift 2=121(LC 9), 14=376(LC 12), 10=271(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-274/215, 6-7=-306/191
BOT CHORD 2-15=-549/422, 14-15=-549/422, 13-14=-612/278, 6-13=-538/367, 11-12=-260/326,
10-11=-223/265
WEBS 4-15=-302/214, 4-14=-404/533, 8-10=-320/278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=121, 14=376, 10=271.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-54, 7-9=-54, 14-16=-20, 10-13=-30(F=-10)



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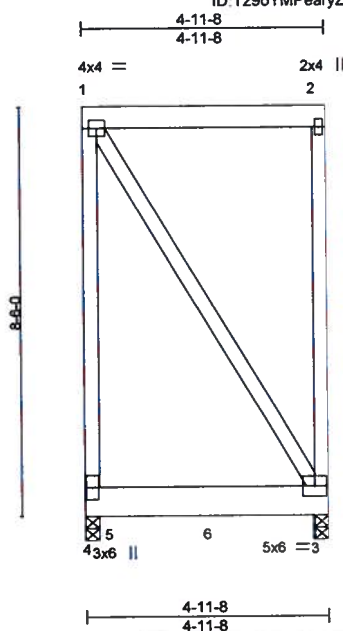
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6904 Parke East Blvd.
Tampa, FL 33610

Job 2233370	Truss TG01	Truss Type FLAT GIRDER	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. Job Reference (optional)	T19289642
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Builders FirstSource, Jacksonville, FL - 32244,

8,240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:50 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmlID-XXm0HMAXRL6LTZs9hCi5GxD1pDAh13aeWQp6fzq6tp



Scale = 1:45.8

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 0.16	Vert(LL)	-0.03	3-4	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.05	3-4	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TP12014		Matrix-MP						
								Weight: 62 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=1254/0-3-8, 3=1450/0-3-8
Max Uplift 4=442(LC 4), 3=513(LC 4)
Max Grav 4=1371(LC 2), 3=1565(LC 2)

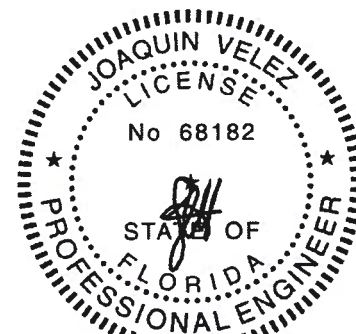
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=442, 3=513.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 848 lb down and 273 lb up at 0-7-4, and 851 lb down and 278 lb up at 2-7-4, and 865 lb down and 277 lb up at 4-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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, 3-4=-20
- Concentrated Loads (lb)
Vert: 3=-788(B) 5=-788(B) 6=-783(B)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

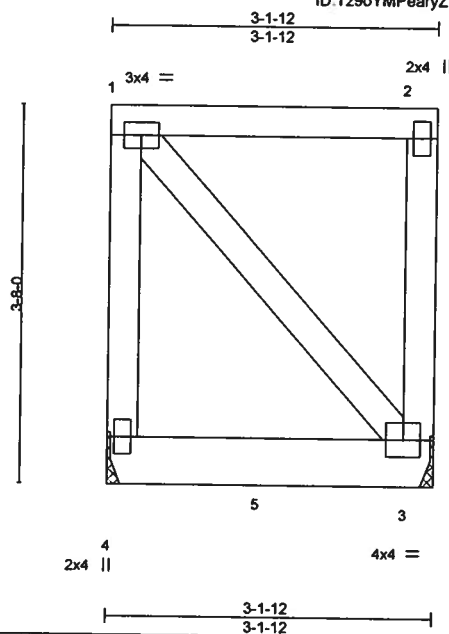
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - KARLTON RES.	T19289643
2233370	TG02	FLAT GIRDER	3	1		
Builders FirstSource, Jacksonville, FL - 32244,						Job Reference (optional)

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:51 2020 Page 1
ID:Tz9oYMPearyZ7mQ7ISig8hzmID-7Y58DdNoITzzd83iOk_eUUOCDZFQUJjtA9Me6zq6to



Scale = 1/21.5

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.14		Vert(LL)	0.01	3-4	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.34		Vert(CT)	-0.01	3-4	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.00		Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP								
										Weight: 26 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 3-1-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=319/Mechanical, 3=319/Mechanical
Max Uplift 4=188(LC 4), 3=189(LC 4)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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) 4=188, 3=189.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 427 lb down and 293 lb up at 1'-6-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-54, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-427(B)



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31, 2020

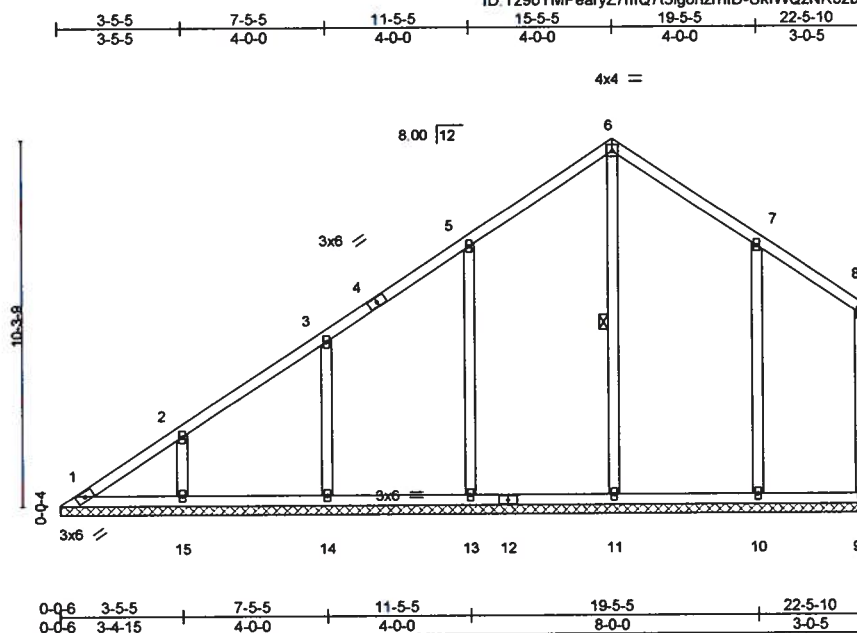
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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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6904 Parke East Blvd.
Tampa, FL 33610

Job 2233370	Truss V01	Truss Type Valley	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289644
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Builders FirstSource, Jacksonville, FL - 32244, 8 240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:52 2020 Page 1
ID: Tz9oYMPearyZ7mQ7t5lg8hzmID-UkFWQzNR32bqanjFG6FDAh1ZPcy19tyt5qvwAYzq6tn



LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCCL 7.0	Plate Grip DOL 1.25	BC 0.17	Vert(LL) n/a - n/a 999		
BCCL 0.0	Lumber DOL 1.25	WB 0.29	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 9 n/a n/a		
	Code FBC2017/TPI2014			Weight: 125 lb	FT = 20%

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

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

REACTIONS. All bearings 22-5-4.
(lb) - Max Horz 1=359(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 9, 1, 11 except 13=241(LC 12), 14=222(LC 12), 15=217(LC 12), 10=230(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 9, 1 except 11=428(LC 19), 13=478(LC 19), 14=391(LC 19), 15=313(LC 19), 10=447(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=391/283, 2-3=250/230
WEBS 5-13=290/264, 3-14=277/247, 2-15=263/234, 7-10=276/252

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 1, 11 except (r=lb) 13=241, 14=222, 15=217, 10=230.



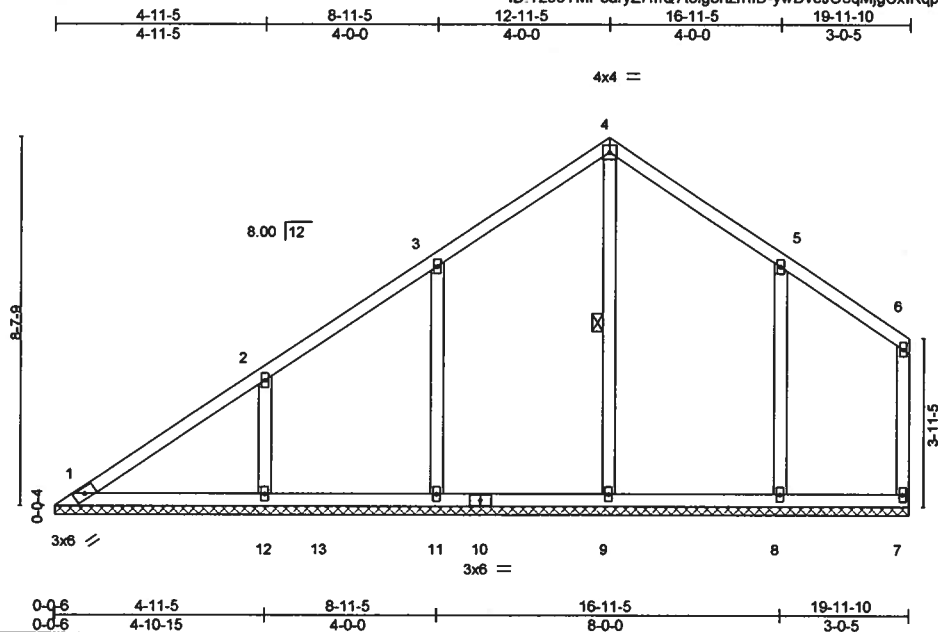
Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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Job 2233370	Truss V02	Truss Type Valley	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. T19289645
Builders FirstSource, Jacksonville, FL - 32244,					

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:53 2020 Page 1
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Scale = 1:51.8

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.22	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.17	Vert(CT)	n/a	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.17	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S					Weight: 102 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 purtins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-9

REACTIONS.

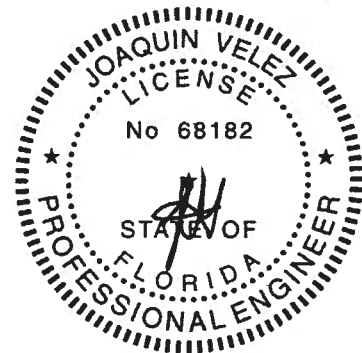
All bearings 19-11-4.
(lb) - Max Horz 1=277(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9 except 11=227(LC 12), 12=269(LC 12), 8=231(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=432(LC 19), 11=452(LC 19), 12=423(LC 19), 8=445(LC 20)

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

TOP CHORD 1-2=265/241
WEBS 3-11=277/254, 2-12=323/285, 5-8=276/252

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9 except (jt=lb) 11=227, 12=269, 8=231.



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Date:

January 31,2020

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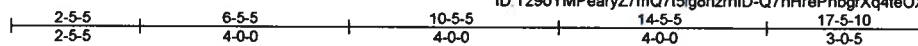
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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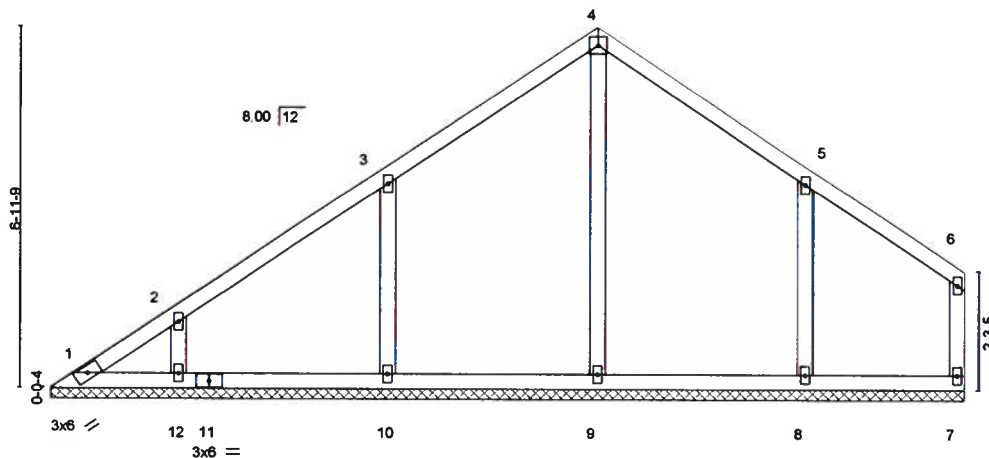
Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - KARLTON RES.
2233370	V03	Valley	1	1	T19289646
Builders FirstSource, Jacksonville, FL - 32244,					

8 240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:54 2020 Page 1
ID: Tz9oYMPearyZ7mQ7I5ig8hzmlD-Q7nHrePhbgrXq4teOXHhF66viQeGdpA9Z8O0FQzq6tl



4x4 =

Scale = 1:42.5



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 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight: 81 lb	FT = 20%

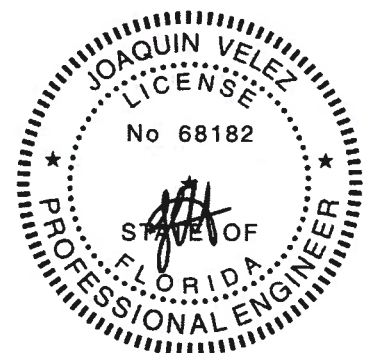
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 17-5-4.
(lb) - Max Horz 1=200(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9 except 10=249(LC 12), 12=185(LC 12), 8=234(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=436(LC 19), 10=421(LC 19), 12=267(LC 19), 8=395(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=300/273, 5-8=277/254

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9 except (if=lb) 10=249, 12=185, 8=234.



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MiTek USA, Inc. FL Cert 6634
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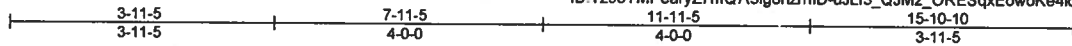
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Tampa, FL 33610

Job 2233370	Truss V04	Truss Type Valley	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. Job Reference (optional)	T19289647
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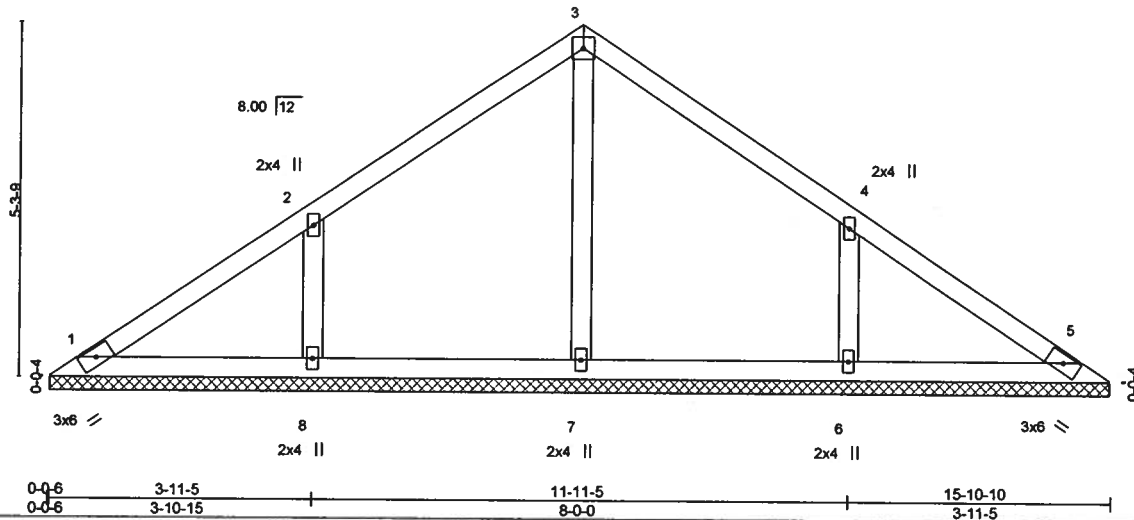
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:55 2020 Page 1
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4x4 =

Scale = 1:33.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code FBC2017/TPI2014			Weight: 63 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 15-9-14.

(lb) - Max Horz 1=155(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=252(LC 12), 6=251(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=366(LC 19), 6=366(LC 20)

FORCES.

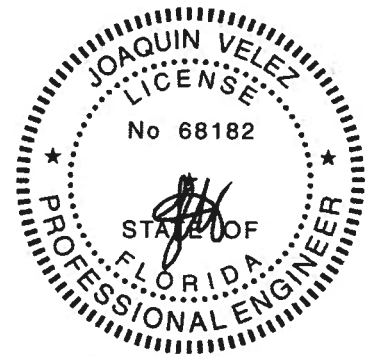
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS

2-8=300/269, 4-6=300/269

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (it=lb) 8=252, 6=251.



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

January 31,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIL-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-88 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Tampa, FL 33610

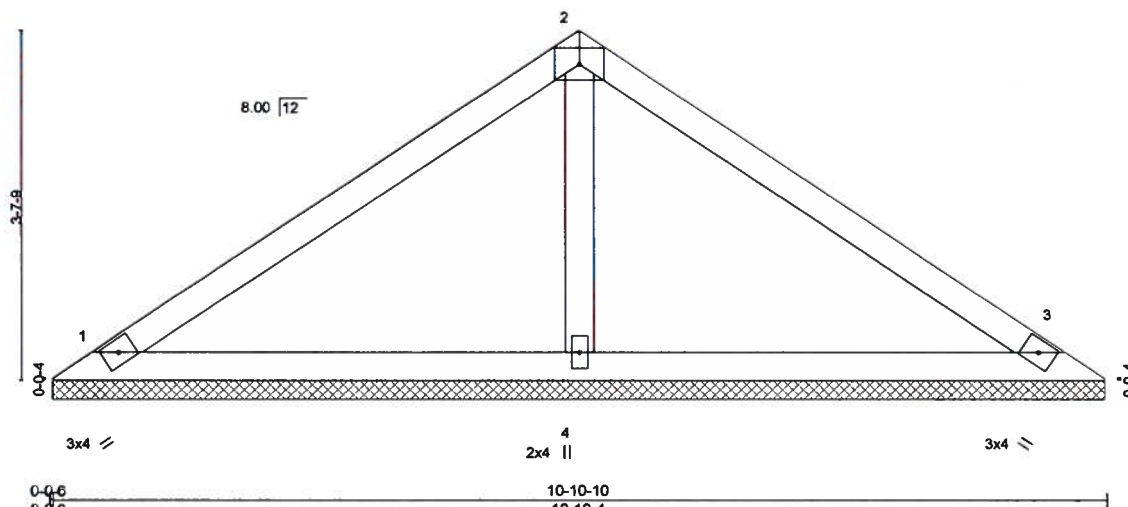
Job 2233370	Truss V05	Truss Type Valley	Qty 1	Ply 1	AARON SIMQUE - KARLTON RES. Job Reference (optional)	T19289648
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Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Jan 30 16:02:56 2020 Page 1
ID: Tz9oYMPearyZ7mQ7f5lg8hzmID-MVv1GKQx7H6F3O10VxJ9LXBDSElv5lcS0Si7JJzq6tj



Scale = 1:22.9



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 0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight: 38 lb	FT = 20%

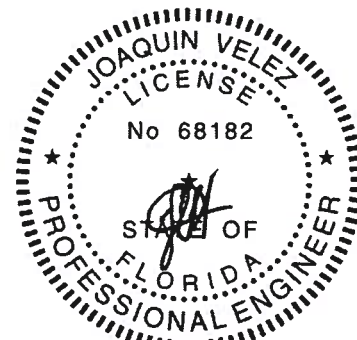
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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. (lb/size) 1=180/10-9-14, 3=180/10-9-14, 4=375/10-9-14
Max Horz 1=-103(LC 8)
Max Uplift 1=-81(LC 12), 3=-94(LC 13), 4=-103(LC 12)
Max Grav 1=180(LC 1), 3=181(LC 20), 4=375(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3 except (it=lb) 4=103.



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

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

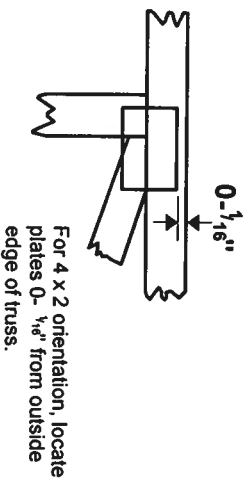
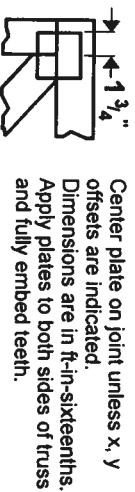
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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-99 and BCSI Building Component Safety Information* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



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

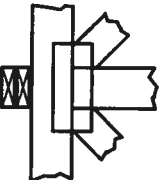
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



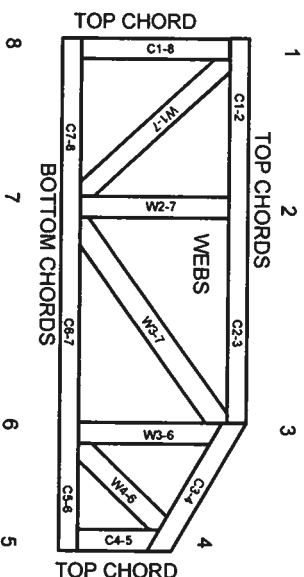
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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, ESR-1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MITek Engineering Reference Sheet: MLI-7473 rev. 10/03/2015



General Safety Notes

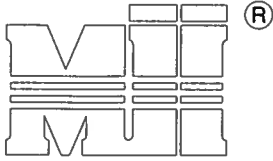
Failure to Follow Could Cause Property Damage or Personal Injury

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



MiTek USA, Inc. Page 1 of 1

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ENGINEERED BY
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A MiTek Affiliate

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

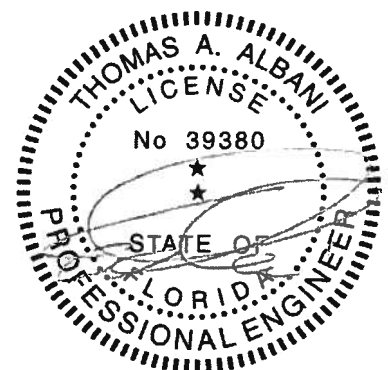
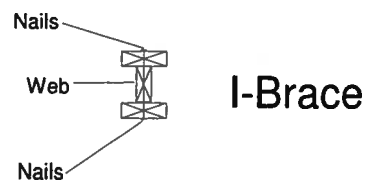
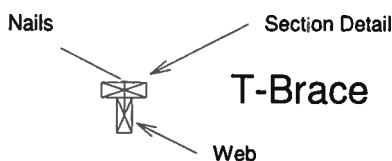
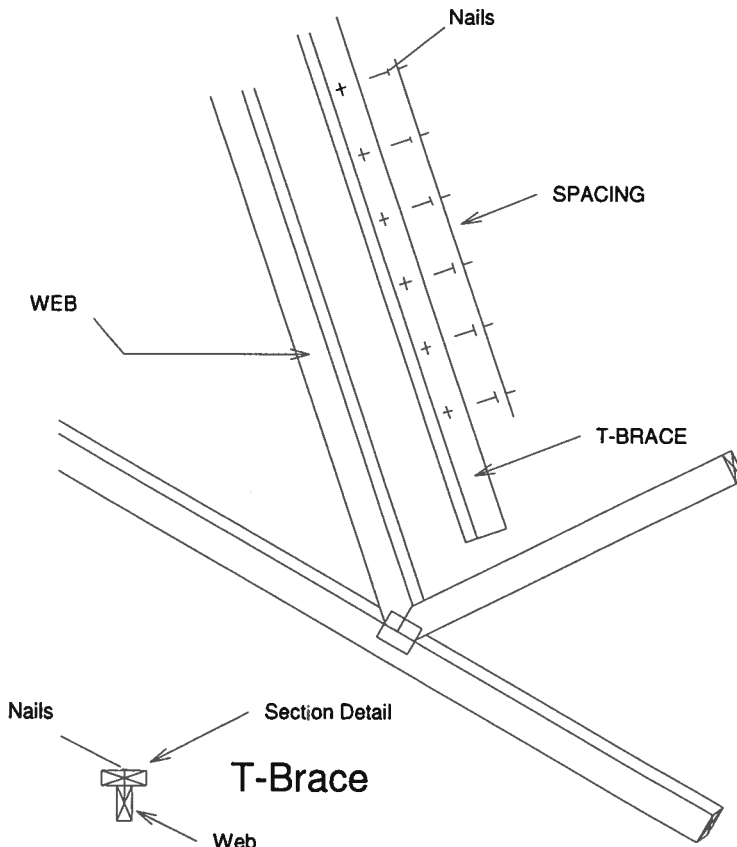
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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.



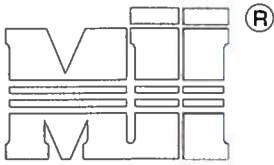
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6904 Parke East Blvd. Tampa FL 33610
Date:

February 12, 2018

AUGUST 1, 2016

SCAB-BRACE DETAIL

MII-SCAB-BRACE



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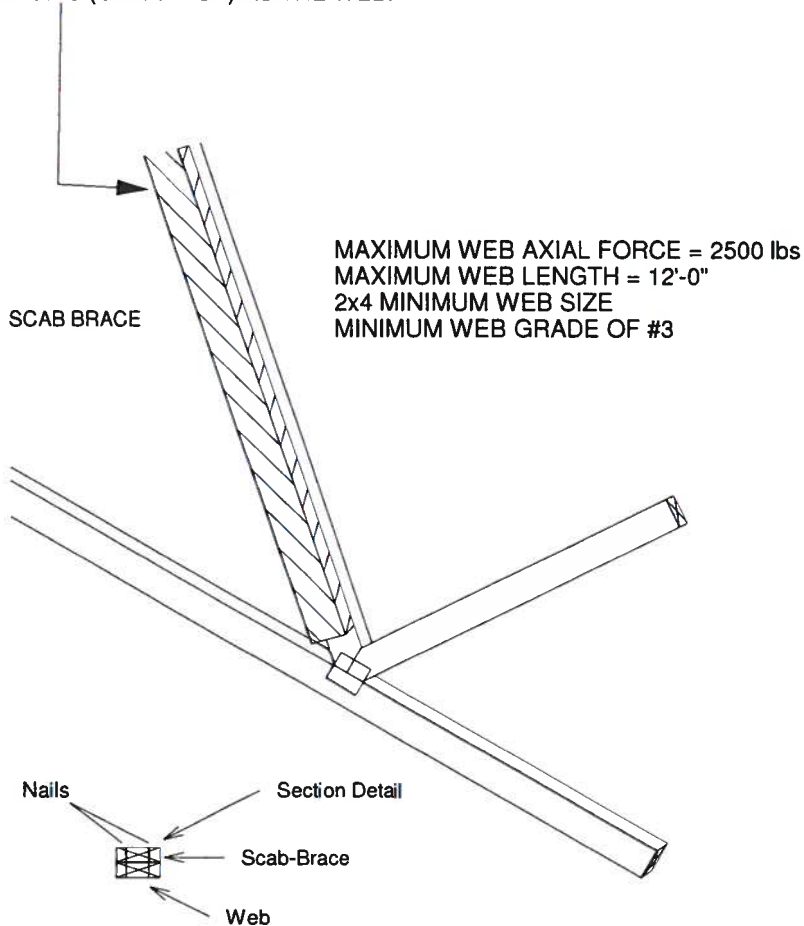
MiTek USA, Inc.

Page 1 of 1

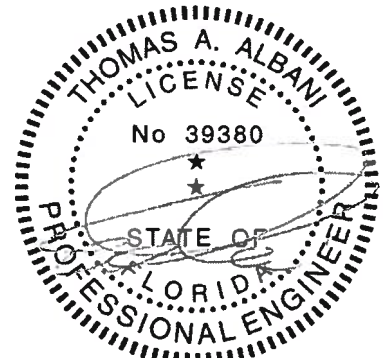
Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.
Scab must cover full length of web +/- 6".

*** THIS DETAIL IS NOT APPLICABLE 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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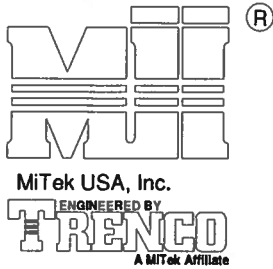
February 12, 2018

AUGUST 1, 2016

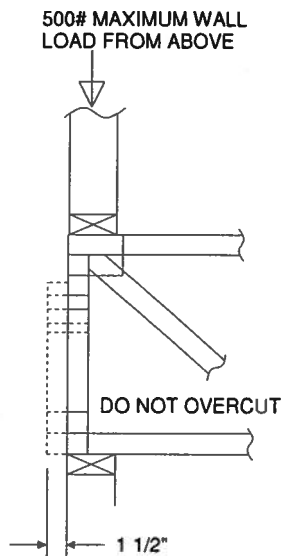
STANDARD REPAIR TO REMOVE END
VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

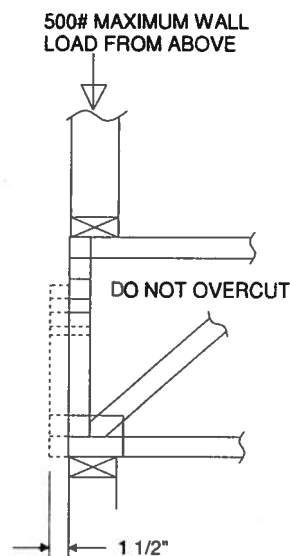
MiTek USA, Inc. Page 1 of 1



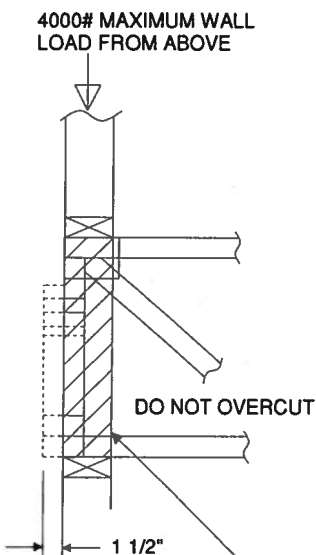
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS 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.



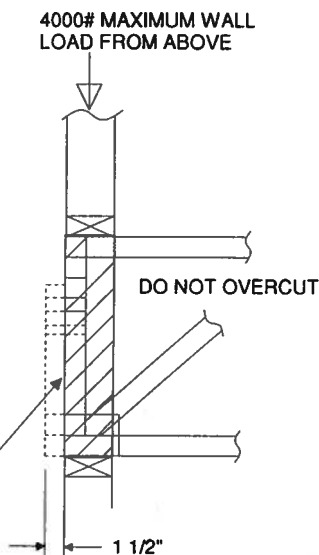
REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS

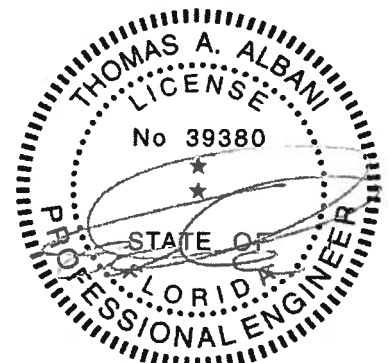


REFER TO INDIVIDUAL
TRUSS DESIGN FOR
PLATE SIZES AND
LUMBER GRADES



TRUSSES BUILT
WITH 4x2 MEMBERS

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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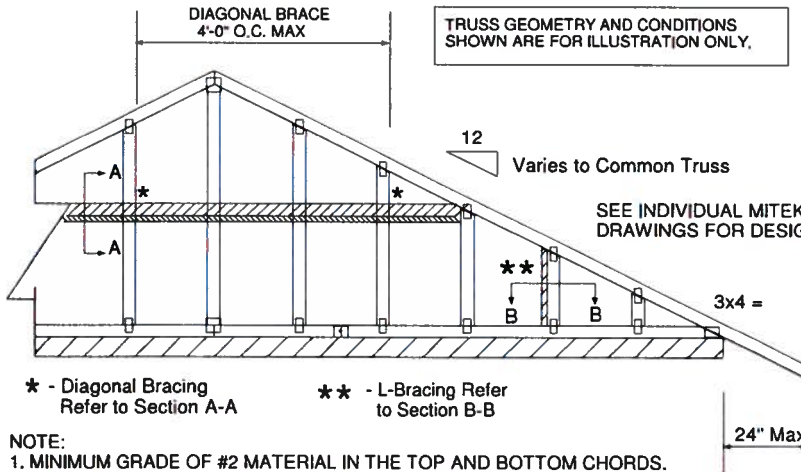
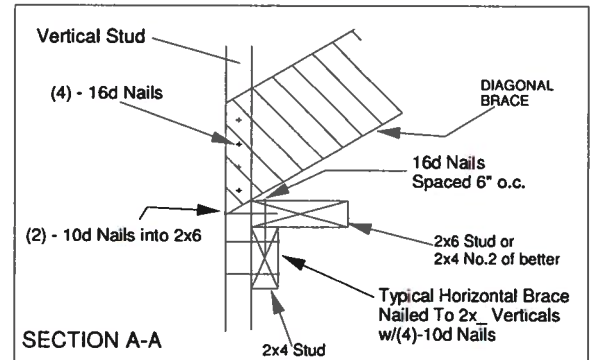
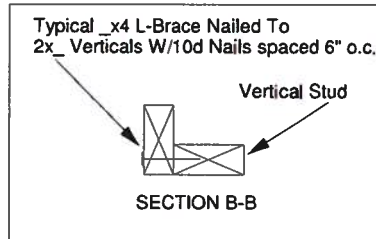
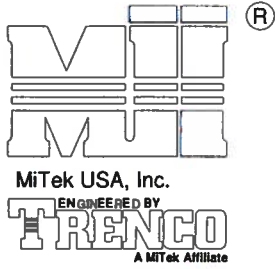
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE130-D-SP

MiTek USA, Inc. Page 1 of 2

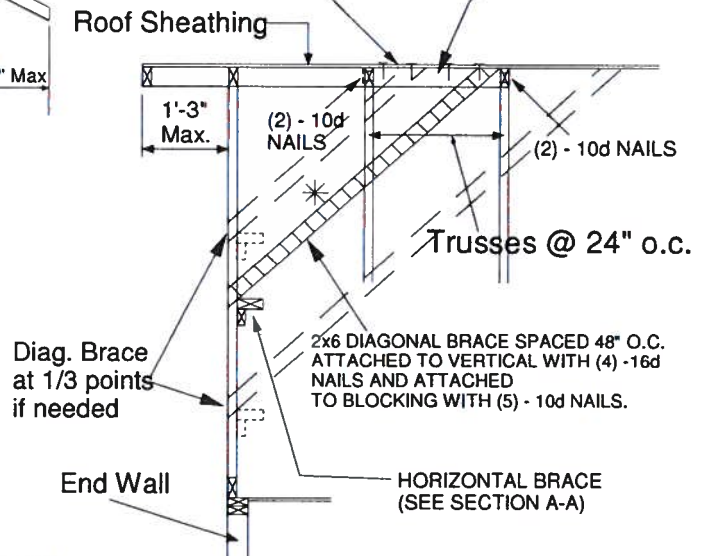


NOTE:

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")

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

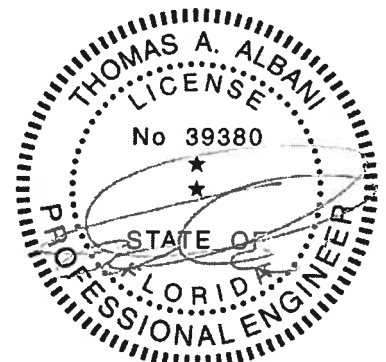


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
			Maximum Stud Length			
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	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.



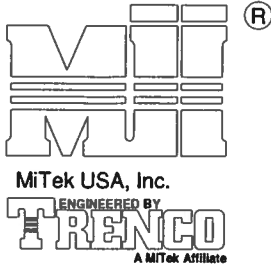
Thomas A. Albani PE No.39380
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Date:

February 12, 2018

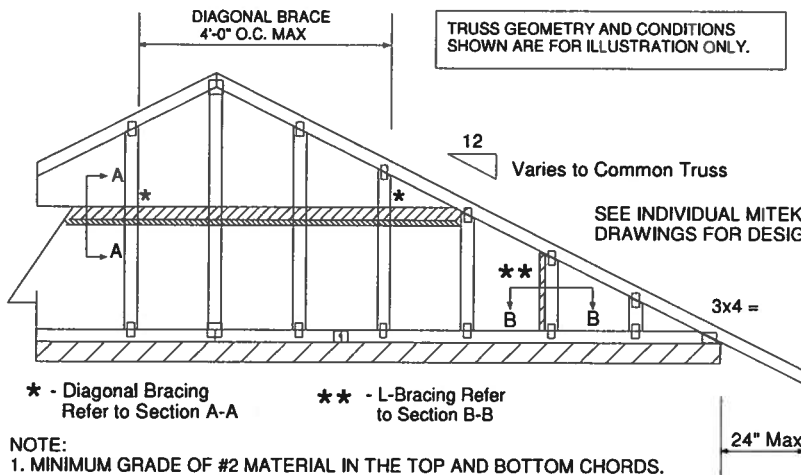
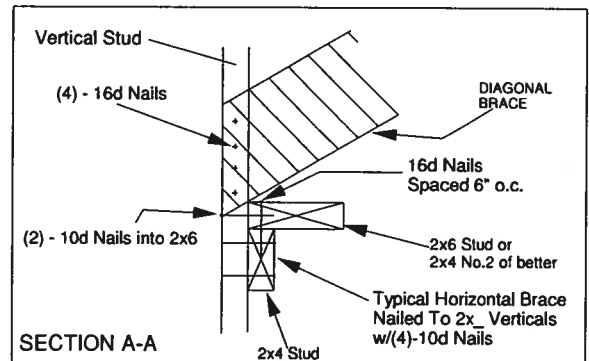
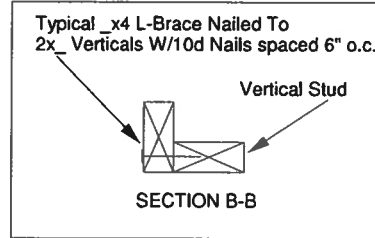
AUGUST 1, 2016

Standard Gable End Detail

MII-GE130-SP



MiTek USA, Inc. Page 1 of 2

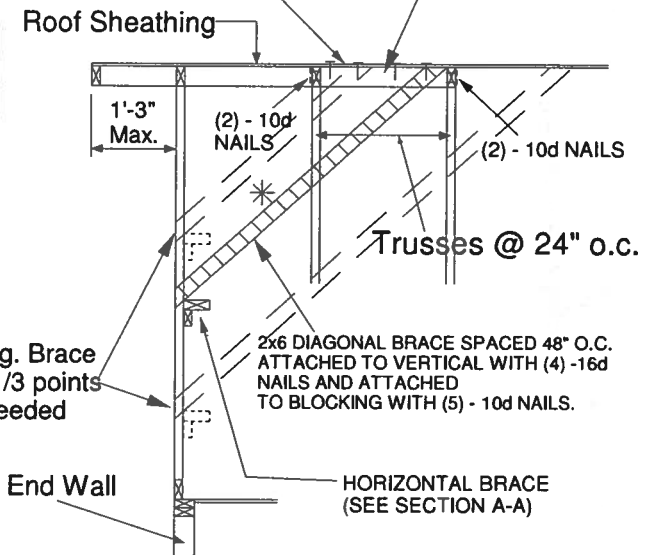


NOTE:

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")

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

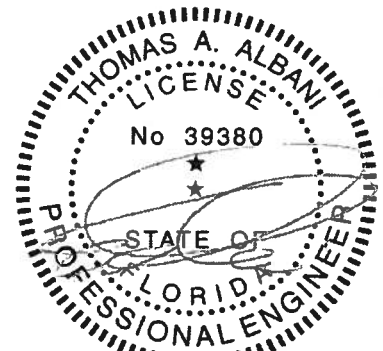


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	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.



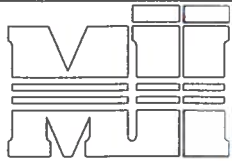
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 12, 2018

JANUARY 6, 2017

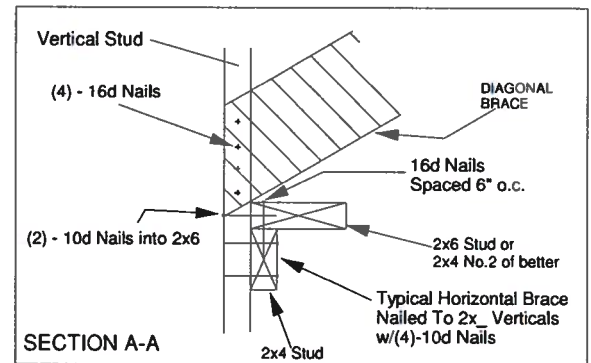
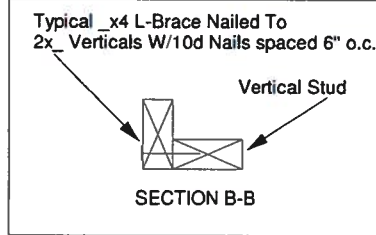
Standard Gable End Detail

MII-GE140-001

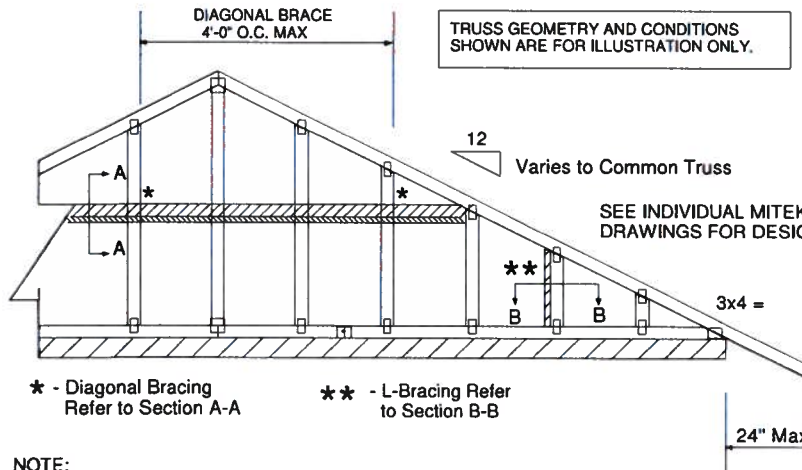


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ENGINEERED BY
TRENCO
A MiTek Affiliate

MiTek USA, Inc. Page 1 of 2

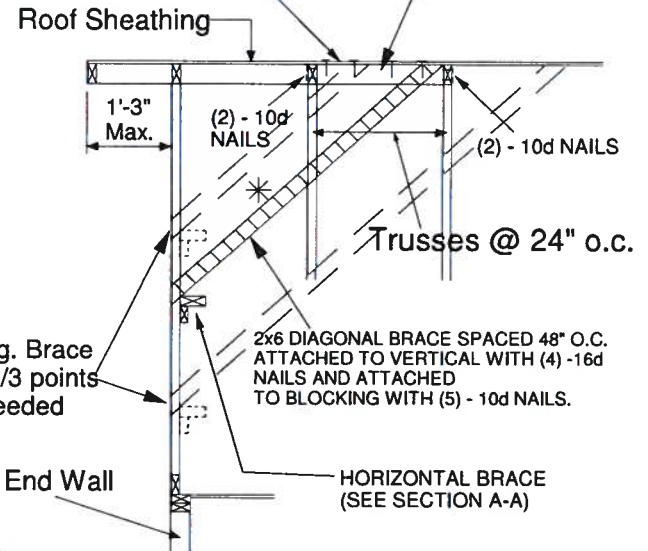


TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.



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 DF/SPF BLOCK



NOTE:

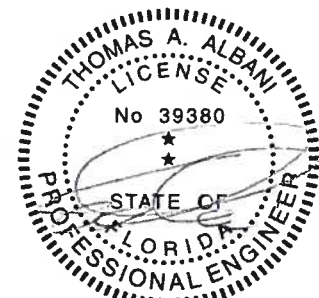
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 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/Std	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Std	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Std	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.



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January 19, 2018

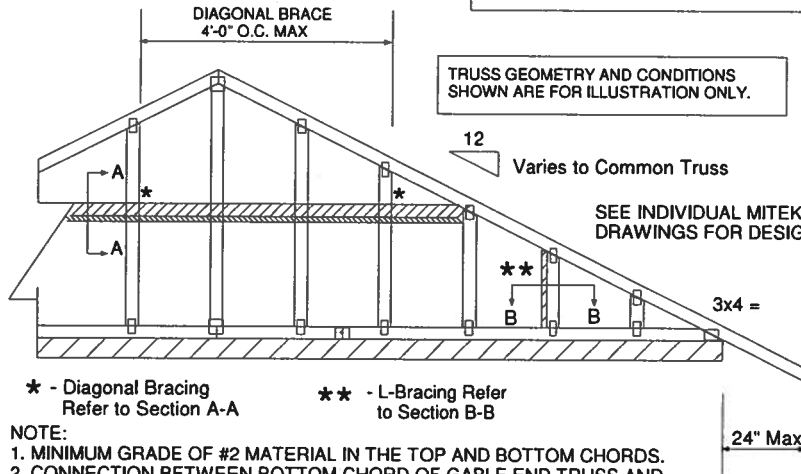
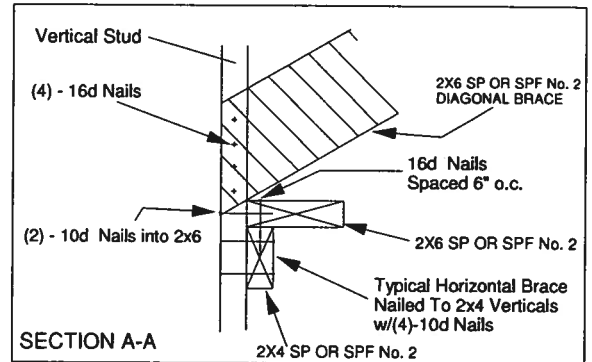
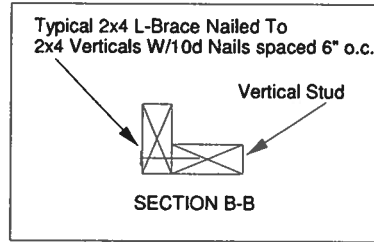
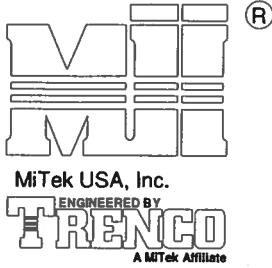
AUGUST 1, 2016

Standard Gable End Detail

MII-GE170-D-SP

MiTek USA, Inc.

Page 1 of 2



NOTE:

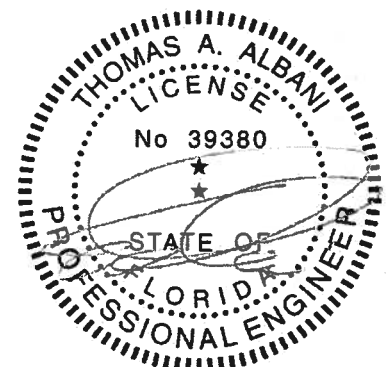
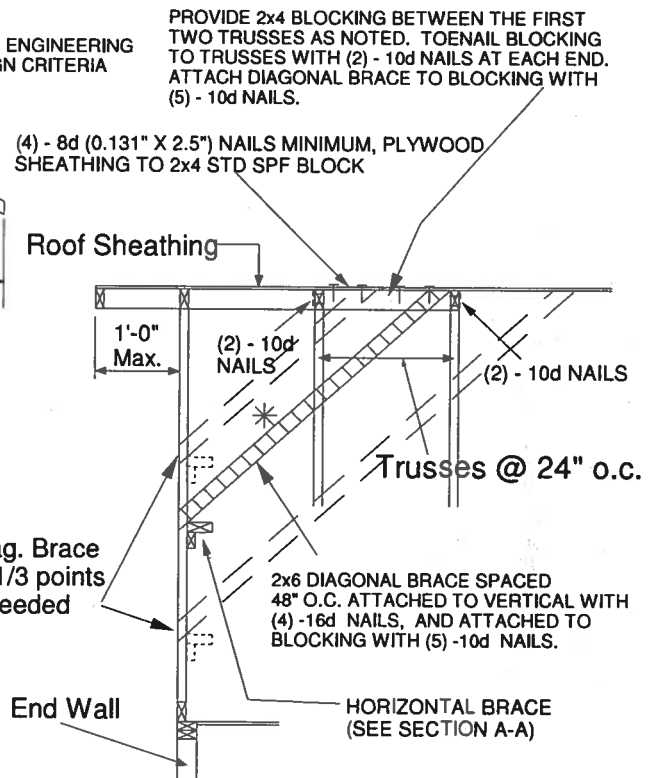
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF 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")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
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.



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Date:

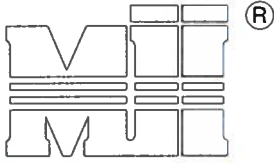
February 12, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE180-D-SP

MiTek USA, Inc. Page 1 of 2



MiTek USA, Inc.

ENGINEERED BY
TRENCOA MiTek Affiliate
DIAGONAL BRACE
4'-0" O.C. MAXTypical 2x4 L-Brace Nailed To
2x4 Verticals W/10d Nails spaced 6" o.c.

Vertical Stud

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS
SHOWN ARE FOR ILLUSTRATION ONLY.12
Varies to Common TrussSEE INDIVIDUAL MITEK ENGINEERING
DRAWINGS FOR DESIGN CRITERIA* - Diagonal Bracing
Refer to Section A-A** - L-Bracing Refer
to Section B-B

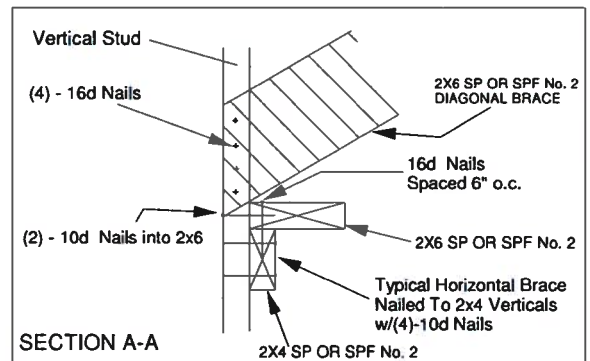
- NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING 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")

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
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.



SECTION A-A

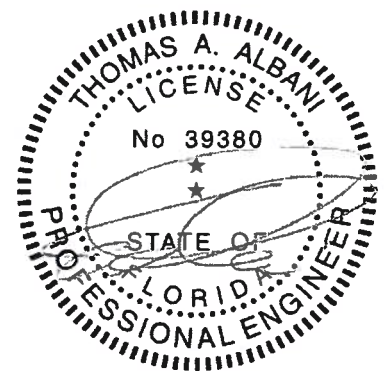
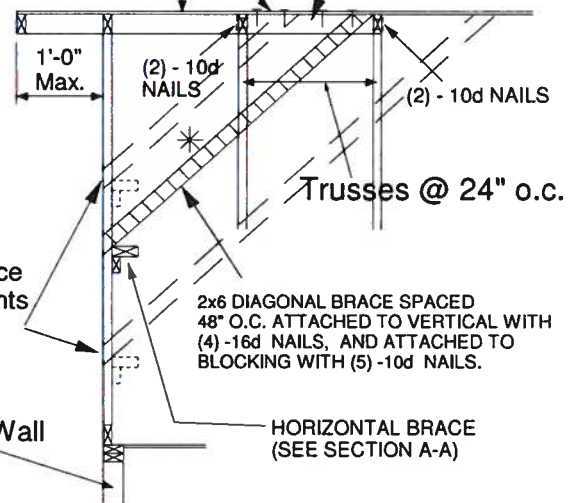
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

Diag. Brace at 1/3 points if needed

End Wall



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Date:

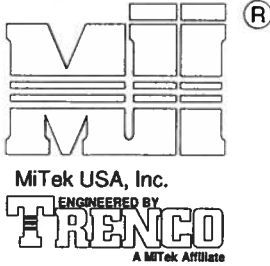
February 12, 2018

AUGUST 1, 2016

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-7-10

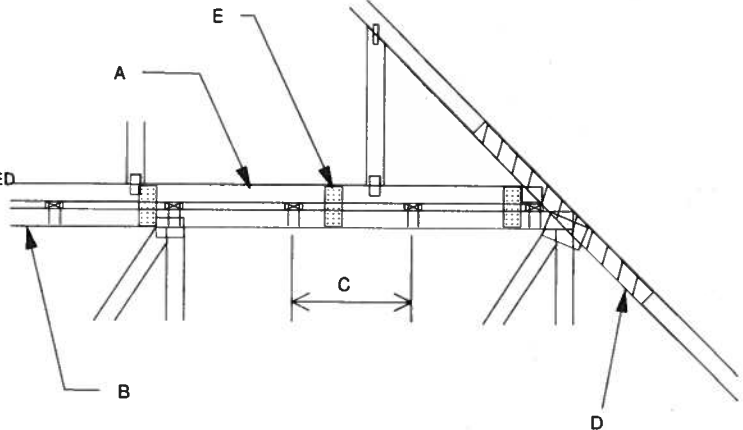
MiTek USA, Inc. Page 1 of 1



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 TRANSFERRING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

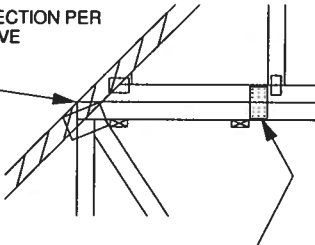
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X 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)



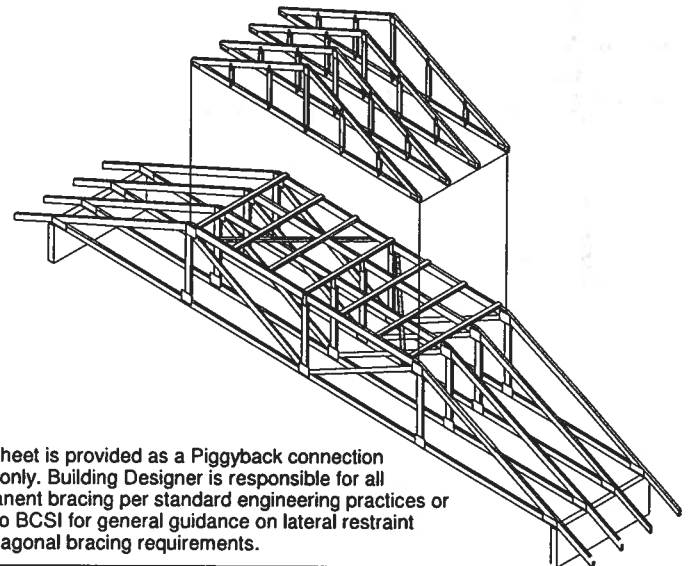
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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

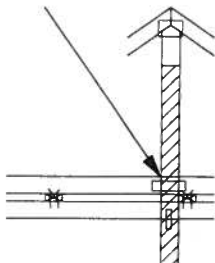


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



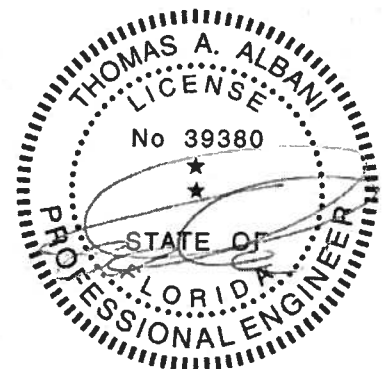
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

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 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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Date:

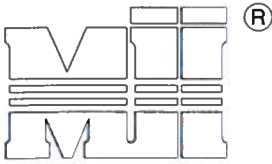
February 12, 2018

AUGUST 1, 2016

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT
7-10

MiTek USA, Inc. Page 1 of 1



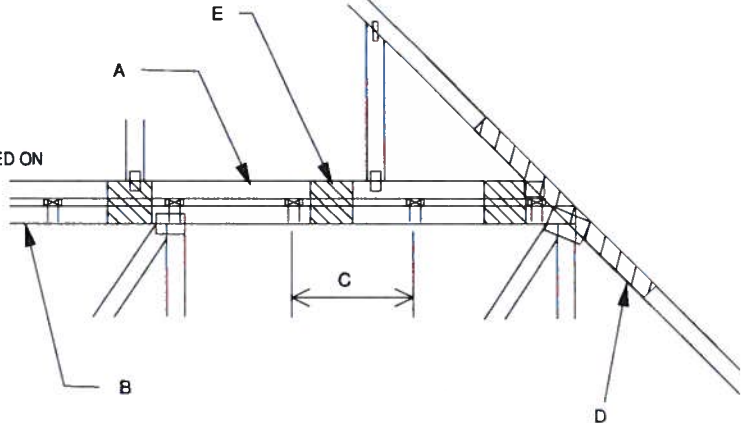
MiTek USA, Inc.



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.

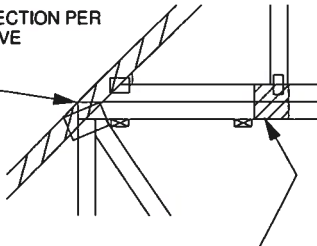
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0(0.131" X 3.5") TOE-NAILED.
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
- D - 2 X 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)



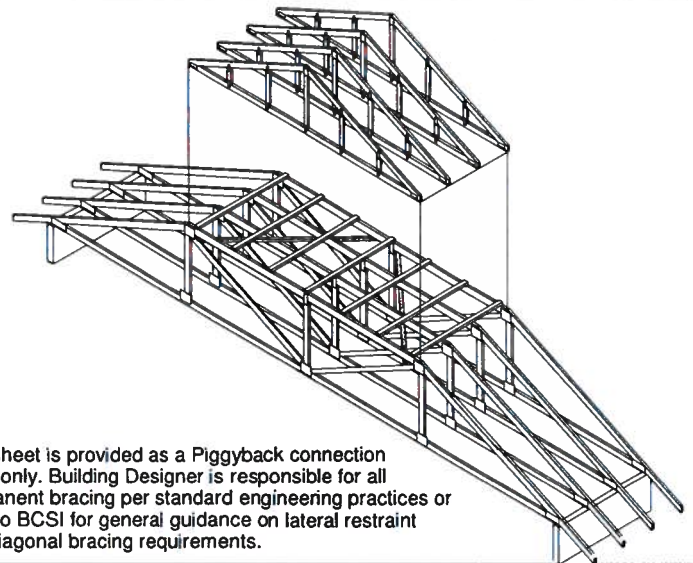
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

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.

SCAB CONNECTION PER
NOTE D ABOVE

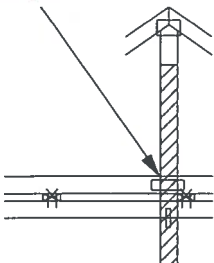


7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



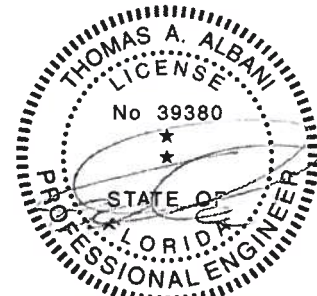
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

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 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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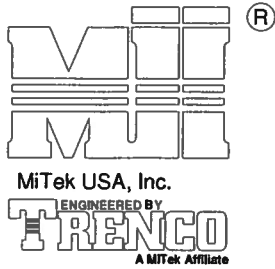
January 19, 2018

AUGUST 1, 2016

STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS
AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

MiTek USA, Inc. Page 1 of 1

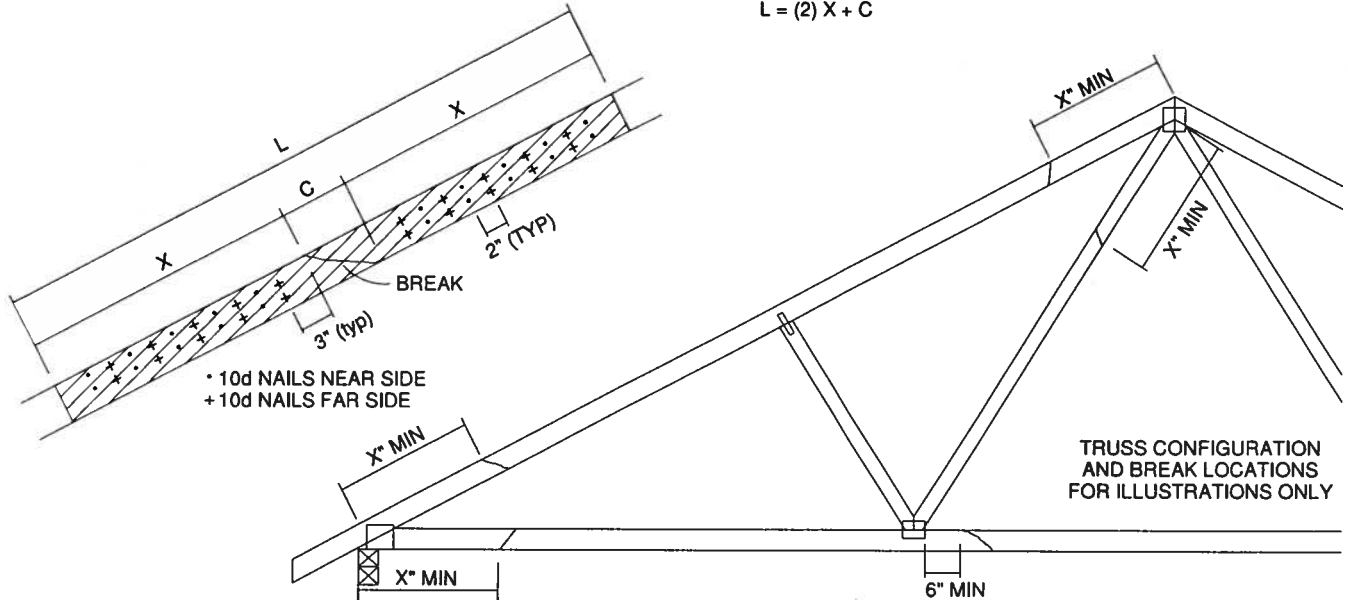


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	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 (L) IS CALCULATED AS FOLLOWS:
 $L = (2) X + C$

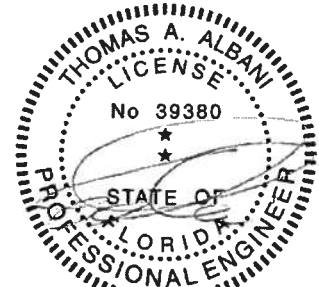


THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

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 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 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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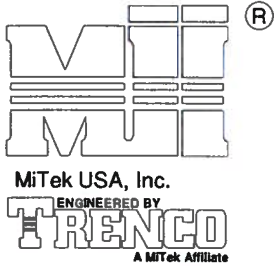
January 19, 2018

AUGUST 1, 2016

LATERAL TOE-NAIL DETAIL

MII-TOENAIL_SP

MiTek USA, Inc. Page 1 of 1



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

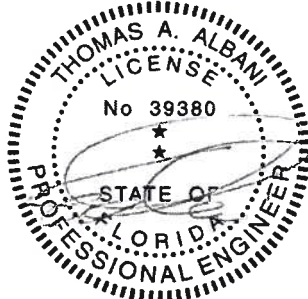
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

EXAMPLE:

(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

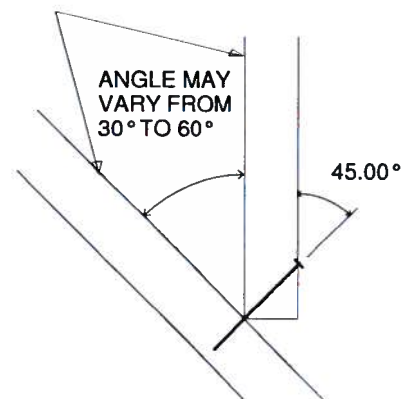
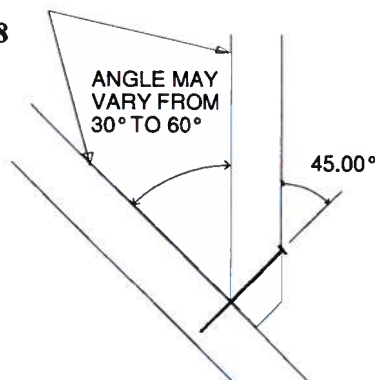
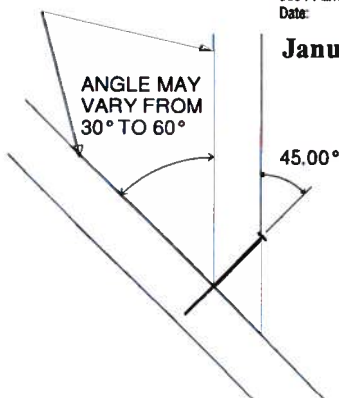
For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

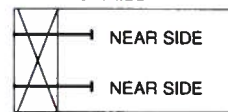


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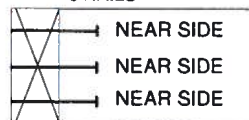
January 19, 2018



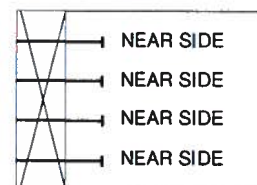
SIDE VIEW
(2x3)
2 NAILS



SIDE VIEW
(2x4)
3 NAILS



SIDE VIEW
(2x6)
4 NAILS



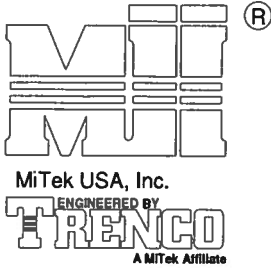
AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

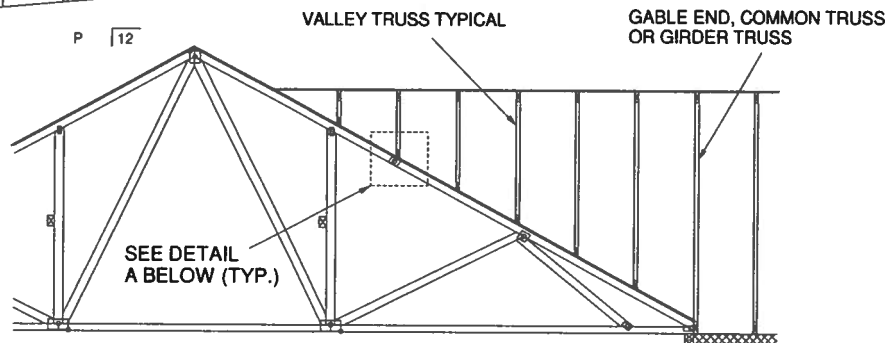
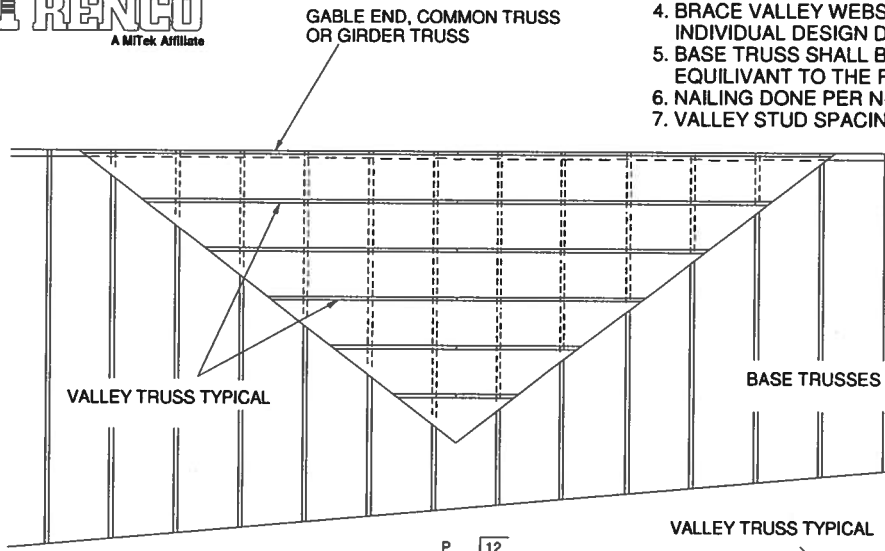
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Page 1 of 1

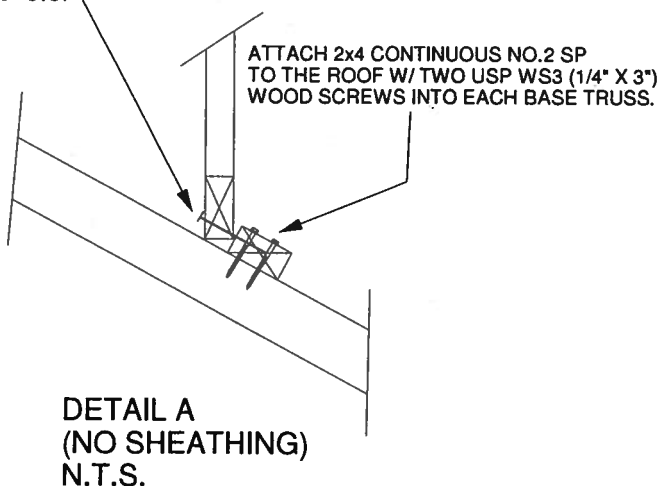


GENERAL SPECIFICATIONS

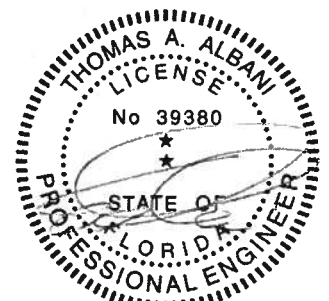
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVANT 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.



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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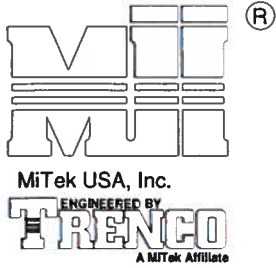
AUGUST 1, 2016

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

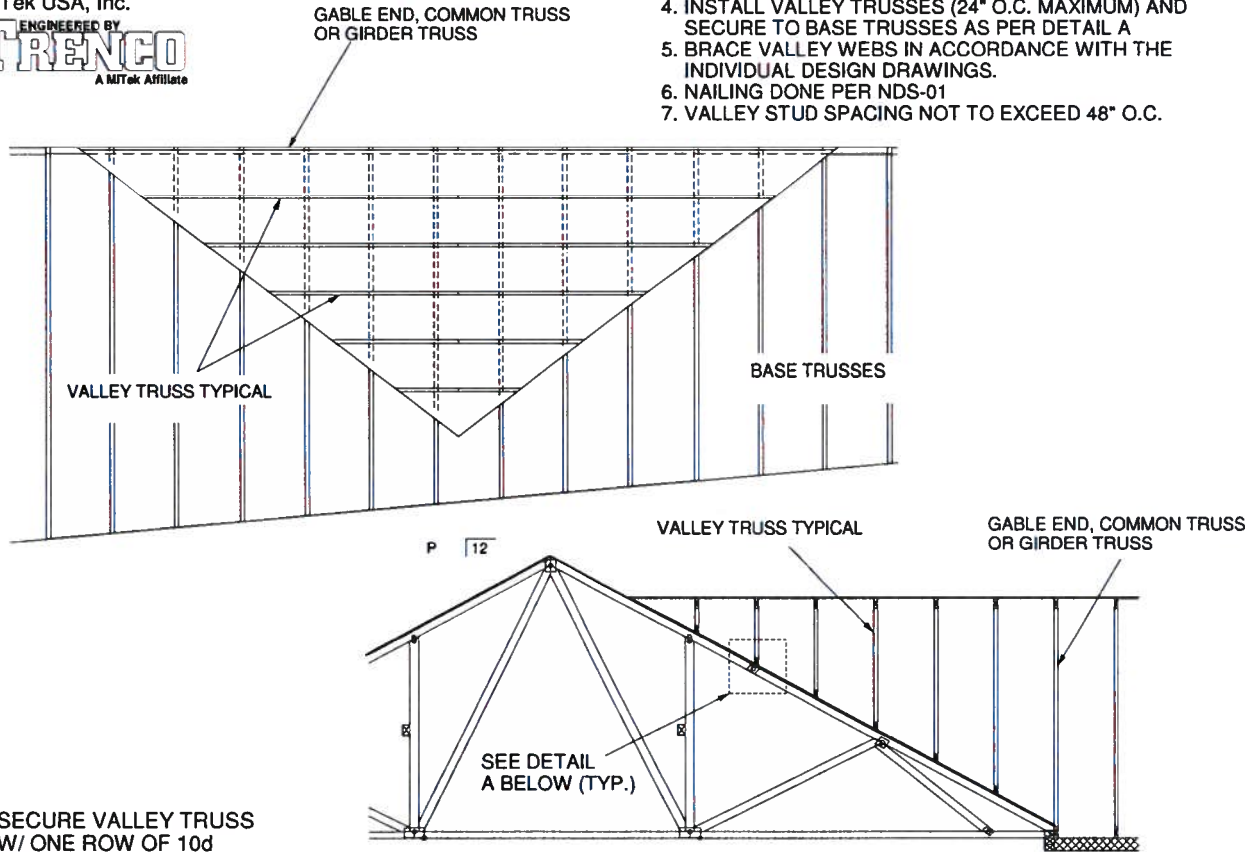
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Page 1 of 1

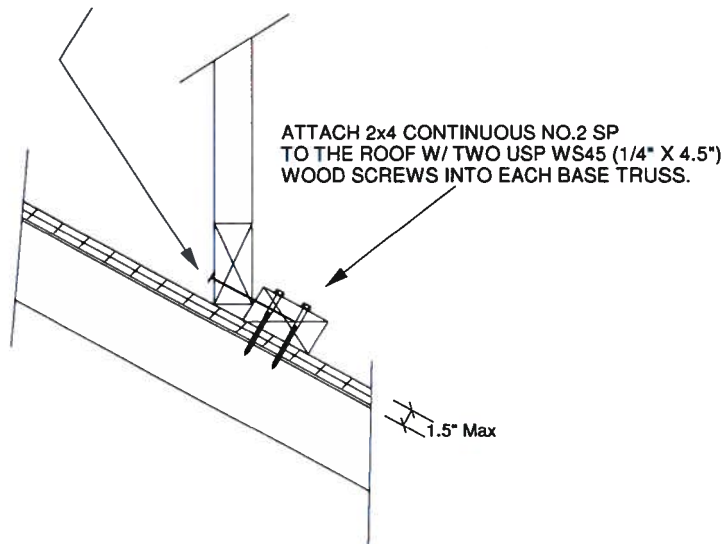


GENERAL SPECIFICATIONS

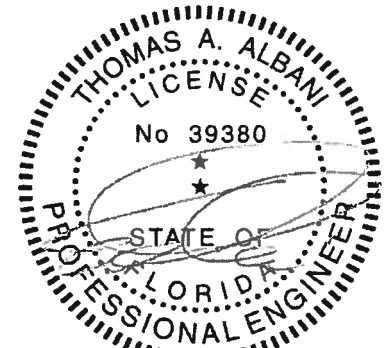
1. NAIL SIZE 10d (0.131" X 3")
2. WOOD SCREW = 4.5" WS45 USP OR EQUIVANT
3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
6. NAILING DONE PER NDS-01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SECURE VALLEY TRUSS
W/ ONE ROW OF 10d
NAILS 6" O.C.

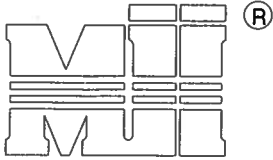


WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES



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February 12, 2018

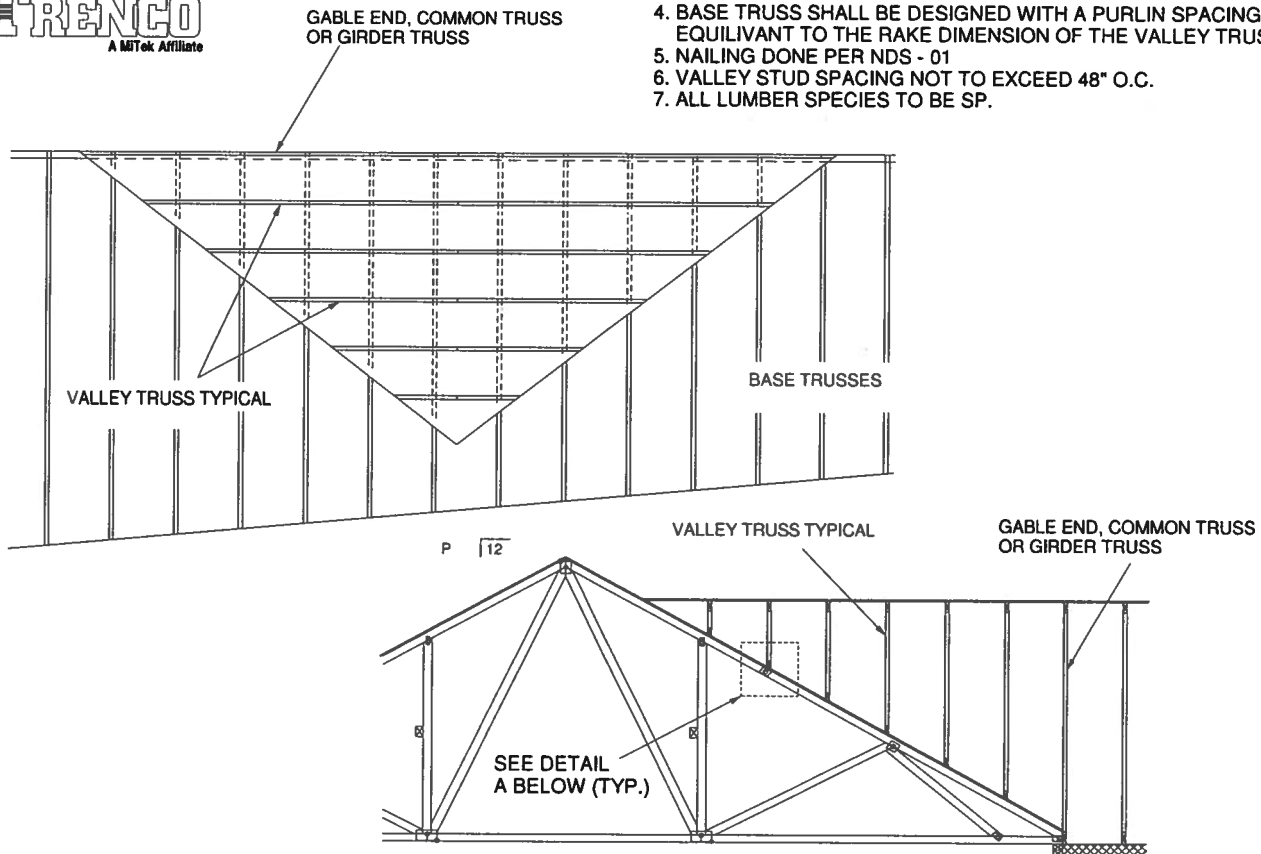
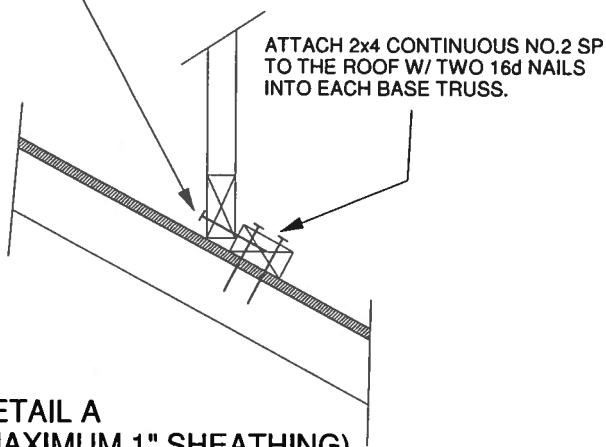


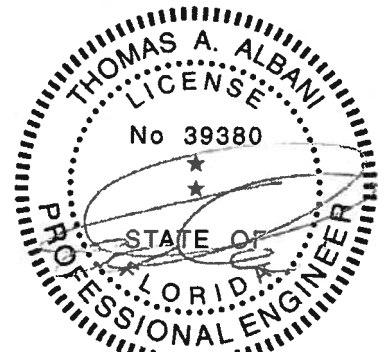
MiTek USA, Inc.

 ENGINEERED BY
TRENCO
 A MiTek Affiliate

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 EQUIVARIANT 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.


 SECURE VALLEY TRUSS
 W/ ONE ROW OF 16d
 NAILS 6" O.C.

 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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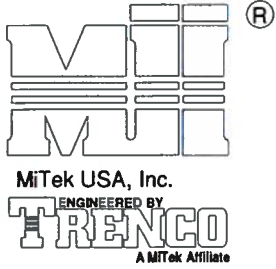
February 12, 2018

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TRUSSED VALLEY SET DETAIL
(HIGH WIND VELOCITY)

MII-VALLEY

MiTek USA, Inc. Page 1 of 1



NOTE: VALLEY STUD SPACING NOT
TO EXCEED 48" O.C. SPACING

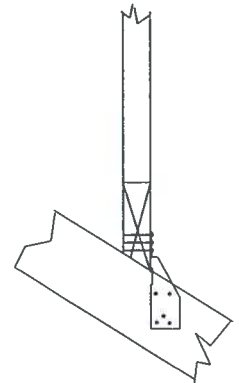
ATTACH VALLEY TRUSSES TO
LOWER TRUSSES WITH
USP RT7 OR EQUIVALENT

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)

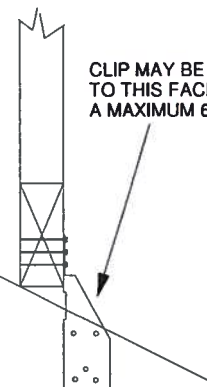
SUPPORTING TRUSSES DIRECTLY UNDER
VALLEY TRUSSES MUST BE DESIGNED
WITH A MAXIMUM UNBRACED LENGTH OF
2'-10" ON AFFECTED TOP CHORDS.

NOTES:

- SHEATHING APPLIED AFTER
INSTALLATION OF VALLEY TRUSSES
- THIS DETAIL IS NOT APPLICABLE FOR
SPF-S SPECIES LUMBER.

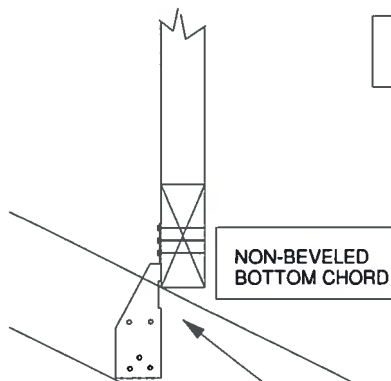


FOR BEVELED BOTTOM
CHORD, CLIP MAY BE
APPLIED TO EITHER FACE



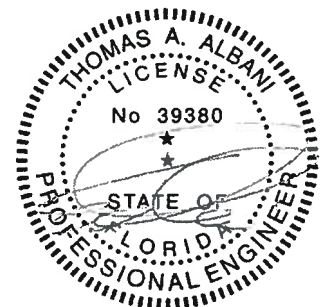
CLIP MAY BE APPLIED
TO THIS FACE UP TO
A MAXIMUM 6/12 PITCH

NON-BEVELED
BOTTOM CHORD



NON-BEVELED
BOTTOM CHORD

CLIP MUST BE APPLIED
TO THIS FACE WHEN
PITCH EXCEEDS 6/12.
(MAXIMUM 12/12 PITCH)



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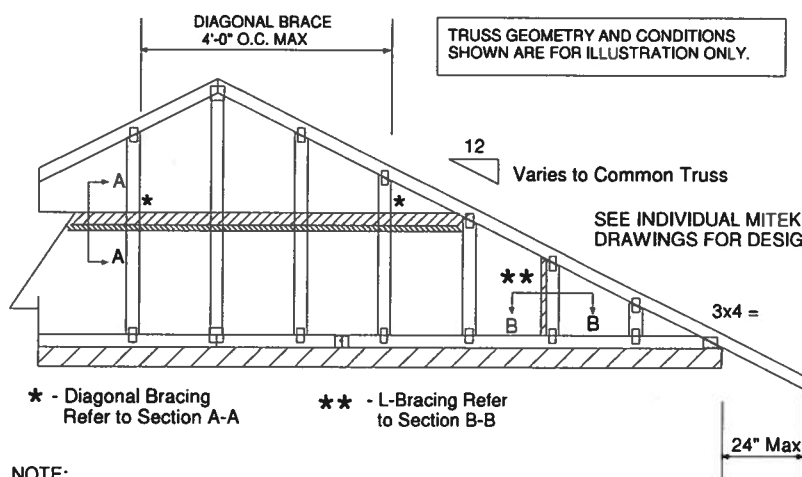
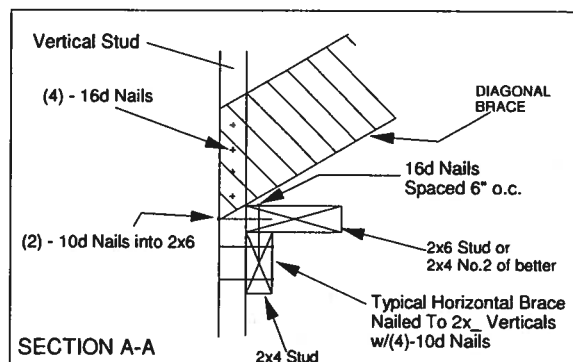
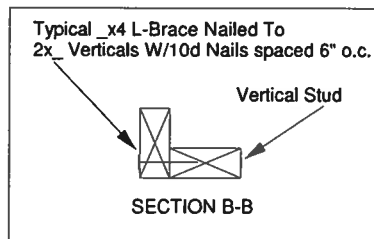
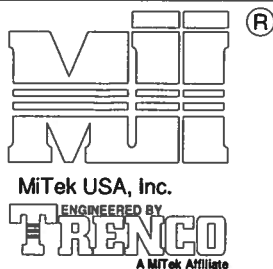
January 19, 2018

AUGUST 1, 2016

Standard Gable End Detail

MII-GE146-001

MiTek USA, Inc. Page 1 of 2

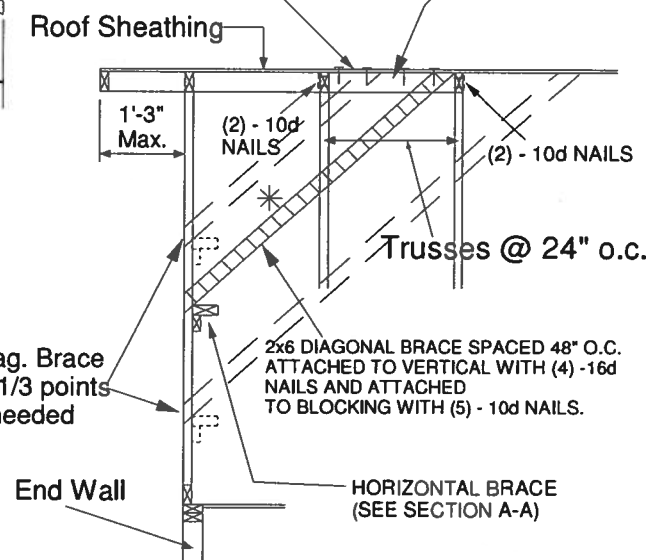


NOTE:

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")

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

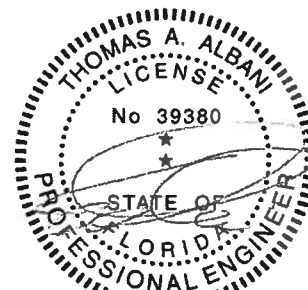


Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length			
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7

- * 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.



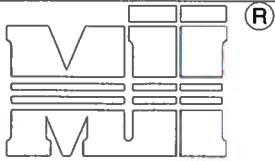
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Date:

January 19, 2018

OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B



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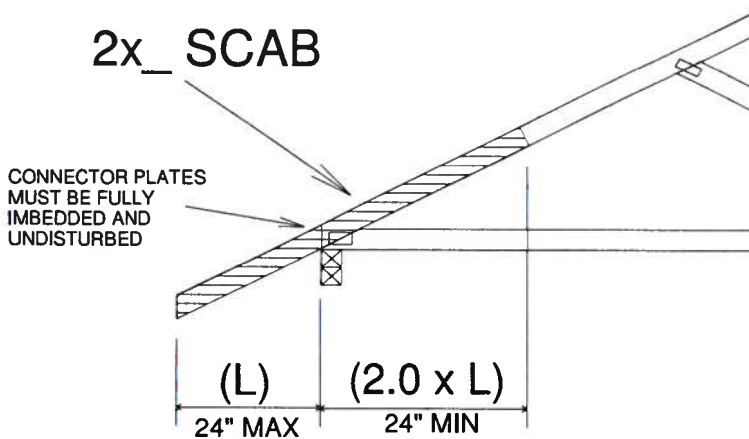
Page 1 of 1

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:

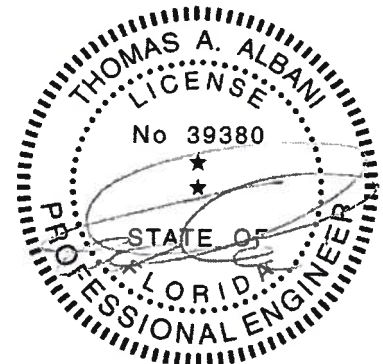
1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED 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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February 12, 2018

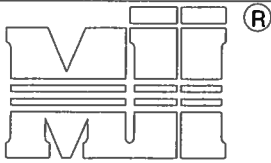
AUGUST 1, 2016

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

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Page 1 of 1



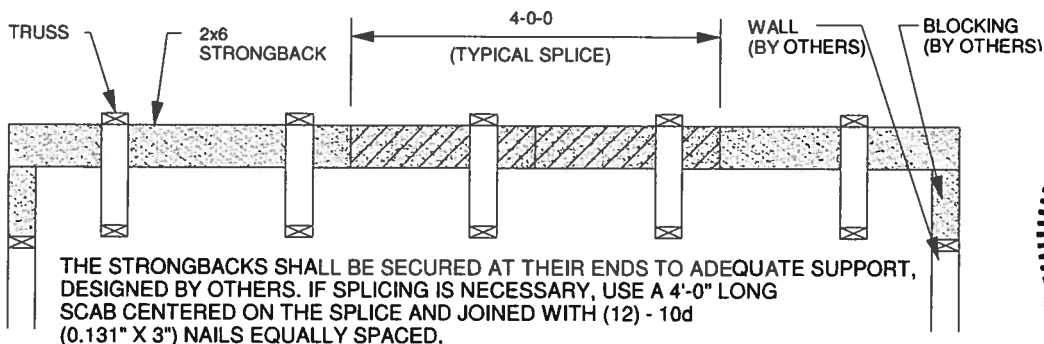
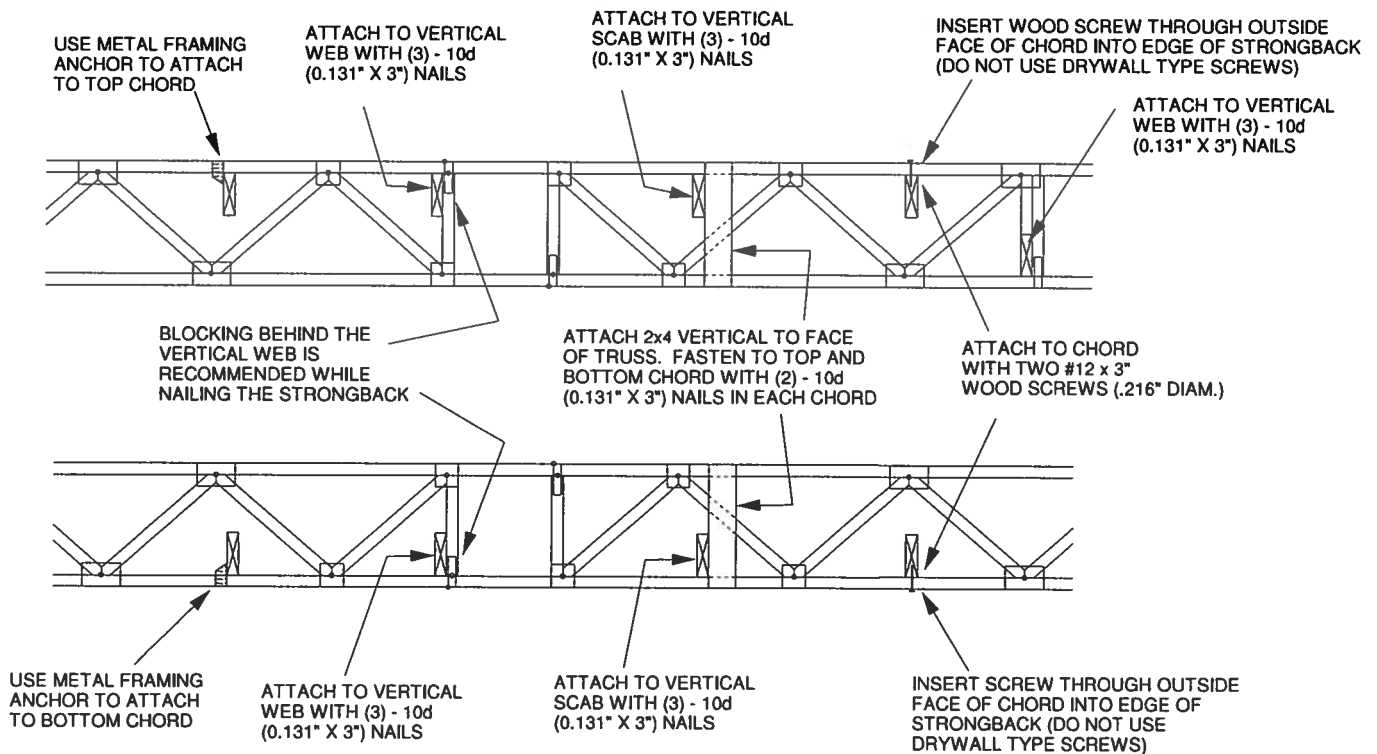
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ENGINEERED BY
TRENCO
A MiTek Affiliate

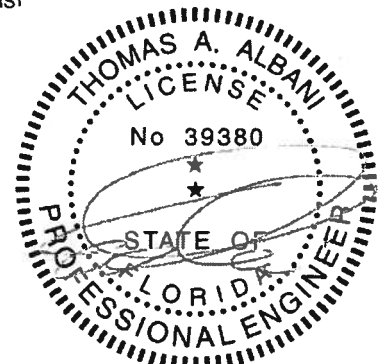
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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.



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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