# Emuled Invoice

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

For Office Use Only Application #44019 Date Received	3/18 By M6 Permit # 39578
Zoning Official W Date 3-23-20 Flood Zone X	
FEMA Map # Elevation MFE River	Plans Examiner 1.4 Date 3-31-20
Omments  NOC EH Deed or PA Site Plan State Road Info Well letter	- 244 Cheet   Darent Parcel #
Dev Permit # In Floodway Letter of Auth. fro	
□ Owner Builder Disclosure Statement □ Land Owner Affidavit □ Ellis	
Septic Permit No. 20 - 0230 OR City Water	Fax N/A
Applicant (Who will sign/pickup the permit) Kimmy Edgley	Phone 386-752-0580
Address 320 SW Elk Hunter Glen, Fort White, Fl 32038	
Owners Name Charles L Jr & Susan K Jenkins	Phone 727-748-5112
911 Address 5310 SE Country Club Rd, Lake City, Fl 3202	5
Contractors Name Edgley Construction/Doug Edgley	Phone 386-623-6654
Address 306 SW Main Blvd, Lake City, FI 32025	
Contractor Email kimmy@edgleyconstruction.com	***Include to get updates on this job.
Fee Simple Owner Name & Address Charles Lacy Jr. & Susan Ka	ay Jenkins
Bonding Co. Name & Address N/A	
Architect/Engineer Name & Address Mark Disosway P.E. 163 SW Midtown	Place, Suite 103, Lake City, Fl 32025
Mortgage Lenders Name & Address N/A	2
Circle the correct power company FL Power & Light Clay Elec.	Suwannee Valley Elec. Duke Energy
Property ID Number 27-4S-17-08\$754-003 Estimated	Construction Cost \$175,000.00
Subdivision Name N/A	Lot Block Unit Phase
Driving Directions from a Major Road 90 E, TR Old Country Club	Rd, lot on right.
	Α
Construction of Garage & Porch Addition	Commercial OR X Residential
Proposed Use/Occupancy Garage	Number of Existing Dwellings on Property  Home
Is the Building Fire Sprinkled? If Yes, blueprints included O	er 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 $37$ Side	
Number of Stories 1 Heated Floor Area 1728 Total Floor	or Area <u>2930</u> Acreage <u>4.67</u>
Zoning Applications applied for (Site & Development Plan, Special Exce	ption, etc.)

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

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

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

**<u>TIME LIMITATIONS OF APPLICATION:</u>** 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.

<u>TIME LIMITATIONS OF PERMITS:</u> 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.

<u>NOTICE TO OWNER:</u> 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.

SUSAN JENKINS	Ausan Jankins	**Property owners <u>must sign</u> here <u>before</u> any permit will be issued.
Print Owners Name	Owners Signature	
**If this is an Owner Builder Permit Ap	oplication then, ONLY the owner can	sign the building permit when it is issued.
	all the above written responsibilit	e that I have informed and provided this ies in Columbia County for obtaining ions.
Contractor's Signature	Columbia C	s License Number CRC1330689 ounty y Card Number 44
Affirmed under penalty of perjury to by Personally known or Produced le	y the <u>Contractor</u> and subscribed bef	ore me this 2 day of March 20 20  ALICE BURKE PEELER Commission # GG 122000
State of Florida Notary Signature (For	the Contractor)	Expires September 15, 2021  Sopre PLOS Bonded Thru Budget Notary Service:

#### SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # JOB NAME	s+Susan Jenkins
-------------------------------	-----------------

#### 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 <u>REQUIRED</u> 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	Print Name Matthew H. Burns Signature	Need
-	Print Name Wattnew H. Burns Signature Signature Company Name: Matt Burns Electric Inc.	□ Liab
I 200 └		□ w/c
<sub>CC#</sub> 309	License #: EC13006531 Phone #: 386-935-0444	□ EX
A4FCHANICAL /		Need
MECHANICAL/	3,5,100,10	□ Lic
A/C	Company Name: David Hall's A/C & Heating Svc. Inc.	□ Liab □ W/C
<sub>CC#</sub> 568	License #: CAC057424 Phone #: 386-755-9792	□ EX
		☐ DE Need
PLUMBING/	Print Name Don Bills Signature	☐ Lic
GAS	Company Name: Hometown Plumbing Services LLC	□ Liab
cc# 298	License #: CFC1428890 Phone #: 386-754-6140	□ w/c □ ex
CC#_200	Phone #: 9101724-0140	□ DE
ROOFING	Print Name Darin L. Summerlin Signature	Need
	Company Name: Summerlin Roofing Inc.	□ Lic □ Liab
L_		□ w/c
<sub>cc#</sub> 534	License #: CCC1326192 Phone #: 386-288-5426	□ EX
		□ DE
SHEET METAL	Print NameSignature	<u>Need</u> □ Lic
	Company Name:	□ Llab
		□ W/C □ EX
CC#	License #: Phone #:	□ DE
FIRE SYSTEM/	Print NameSignature	Need
		□ Lic □ Liab
SPRINKLER	Company Name:	□ w/c
CC#	License#: Phone #:	□ EX
		□ DE Need
SOLAR	Print NameSignature	<u>Need</u> ☐ Lic
1.	Company Name:	🗆 Liab
		□ w/c
CC#	License #:Phone #:	□ EX □ DE
CTATE [		Need
STATE	Print NameSignature	□ Lic
SPECIALTY	Company Name:	□ Liab □ W/C
CC#		□ EX
CC#	License #: Phone #:	□ DE

Inst. Number: 201412014077 Book: 1281 Page: 641 Date: 9/11/2014 Time: 1:38:24 PM Page 1 of 2

Doc Deed: 0.70 P.DeWitt Cason Clerk of Courts, Columbia County, Florida

This instrument was prepared without opinion of title by, and after recording return to:

Jordan G. Lee, Esq.
SHUTTS & BOWEN LLP
4301 W. Boy Scout Boulevard, Suite 300
Tampa, Florida 33607

Inst:201412014077 Date:9/11/2014 Time:1:38 PM

Doc Stamp-Deed:0.70

\_DC,P.DeWitt Cason,Columbia County Page 1 of 2 B:1281 P:641

#### WARRANTY DEED

THIS WARRANTY DEED, made this 4th day of Senter, 2014, between MARILYN WILLIAMS, an unmarried woman (the "Grantor") whose post office address is 5130 SE Country Club Road, Lake City, Florida 32025, and MARILYN WILLIAMS, as life estate grantee, whose post office address is 5130 SE Country Club Road, Lake City, Florida 32025 (the "Life Estate Grantee") and CHARLES LACY JENKINS, JR. and SUSAN KAY JENKINS, husband and wife, as tenants by the entirety, as remainder interest grantee, whose post office address is 5707 TPC Boulevard, Lutz, Florida 33558 (collectively, the "Remaindermen Grantee").

That the Grantor, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable considerations, receipt whereof is hereby acknowledged, by these presents does hereby grant, bargain, sell, and convey to the Life Estate Grantee, for and during the Life Estate Grantee's natural life, and upon the Life Estate Grantee's death, to the Remaindermen Grantee, their heirs, successors and assigns, forever, the following described property, situated in Columbia County, Florida (the "Property"):

#### Section 27, Township 4 South, Range 17 East

Commence at the SE corner of the NW ½ of SW ½ of said Section 27 and run thence North 01°16'30" West a distance of 663.83 feet; thence run South 88°59'35" West 40 feet; thence run North 01°16'30" West 800 feet to the POINT OF BEGINNING; thence run South 88°59'35" West 450 feet; thence North 01°16'30" West 200 feet; thence North 88°59'35" East 450 feet; thence South 01°16'30" East 200 feet to the POINT OF BEGINNING. Containing 2.06 acres.

Parcel Number: 27-4S-17-08754-003

SUBJECT TO taxes for the current year, as well as all easements, covenants, reservations, restrictions, mortgages and other encumbrances of record, if any;

NOTE TO RECORDER: This Deed is given for minimal consideration. Accordingly, only minimum documentary stamp taxes are affixed hereto.

Inst: Number: 201412014077 Book: 1281 Page: 642 Date: 9/11/2014 Time: 1:38:24 PM Page 2 of 2 Doc Deed: 0.70 P.DeWitt Cason Clerk of Courts, Columbia County, Florida

TOGETHER with all the tenements, hereditaments and appurtenances thereto;

The Grantor hereby covenants with the Life Estate Grantee and the Remaindermen Grantee that the Grantor is lawfully seized of the Property in fee simple that the Grantor has good right and lawful authority to sell and convey the Property; that the Grantor hereby fully warrants the title to the Property, and will defend the same against the lawful claims of all persons whomsoever.

THIS PROPERTY IS THE HOMESTEAD OF THE GRANTOR.

IN WITNESS WHEREOF, the Grantor has executed and delivered this Warranty Deed on date first set out above.

Signed in the presence of the following witnesses:

TPADOCS 20355271 2

Witness Print name: Heather McInnis  Witness Witness Print name: KCHNINE E. HOV(15	Maria Williams
STATE OF FLORIDA  COUNTY OF	before me on Sptomber 4, 2014,
is personally known to me; or  has produced Florida Drive	as identification.
[Affix notary seal below]  KATHRINE E. HARRIS  Notary Public - State of Florida  My Comm. Expires Jul 5, 2018  Commission # EE 214325	ame: Kathvire E. Harris Notary Public

Inst. Number: 201912020773 Book: 1393 Page: 2713 Page 1 of 3 Date: 9/6/2019 Time: 3:20 PM

P.DeWitt Cason Clerk of Courts, Columbia County, Florida Doc Deed: 0.70

Prepared By:

Charles L Jenkins

**After Recording Return To:** 

5707 TPC BLVD Tampa, Florida 33558

> Inst: 201912020773 Date: 09/06/2019 Time: 3:20PM Page 1 of 3 B: 1393 P: 2713, P.DeWitt Cason, Clerk of Court Columbia, County, By: BD Deputy ClerkDoc Stamp-Deed: 0.70

SPACE ABOVE THIS LINE FOR RECORDER'S USE

#### **QUITCLAIM DEED**

WITNESSETH, on September 06, 2019 THE GRANTOR(S),

- Debra Aldridge, a married person,

for and in consideration of the sum of: One Dollar (\$1.00) and/or other good and valuable consideration to the below Grantee(s) in hand paid by the Grantee(s), the receipt whereof is hereby acknowledged:

- Charles L Jenkins, Jr and Susan K Jenkins, a married couple, residing at 5707 TPC BLVD, LUTZ, Hillsborough County, Florida 33558

Grantor does hereby remise, release, and quit-claim unto the Grantee, the Grantee's heirs and assigns forever, all the rights, title, interest, claim of the Grantor in and to the following described land, in an unincorporated area in the County of Columbia, state of FLORIDA to wit:

#### Legal Description:

Section 27, Township 4 South, Range 17 East Columbia County, Florida Commence at the Southeast Corner of the Northwest ¼ of the Southwest ¼ of Section 27, Township 4 South, Range 17 East, Columbia County, Florida and run N.01°16'30" W. along the East line of said Northwest ¼ of the Southwest 1/4 a distance of 663.83 feet; thence S.88°59'35"W. 40.00 feet to a point on the Westerly Right-of-Way line of SE Country Club Road; thence N.01°16'30"W. along said Westerly Right-of-Way line 999.95 feet to the Northeast corner of a parcel of land described in O.R. Book 1281, Page 641 of the Public Records of Columbia County, Florida,

Inst. Number: 201912020773 Book: 1393 Page: 2714 Page 2 of 3 Date: 9/6/2019 Time: 3:20 PM

P.DeWitt Cason Clerk of Courts, Columbia County, Florida Doc Deed: 0.70

thence S.89°25'27"W. along the North line of said parcel of land 174.14 feet to the POINT OF BEGINNING; thence continue S.89°25'27"W. still along the North line of said parcel of land described in O.R. Book 1281, Page 641 a distance of 274.80 feet; thence N.01°10'03"W. 255.54 feet; thence S.89°43'10"E. 274.45 feet; thence S.01°15'47"E. 251.44 feet to the POINT OF BEGINNING. Containing 1.60 acres, more or less. Being those same lands described in O.R. Book 959, Page 2145 of the Public Records of Columbia County, Florida.

To have and to hold the same together with all and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate, right, title, interest, lien, equity, and claim whatsoever for the Grantor, either in law or equity, to the only proper use, benefit and behoof of the Grantee forever.

A transfer among family members where only nominal consideration is given

Tax Parcel Number: 27-4S-17-08754-009

Mail Tax Statements To: Charles L Jenkins 5707 TPC BLVD Tampa, Florida 33558

[SIGNATURE PAGE FOLLOWS]

Grantor Signatures:	
DATED: G-6-2019  Obju Aldridge	
In Witness Whereof,  Marsha H. Moore  Marsha H. Moore	Witness Danes Blakely
The foregoing instrument was acknowledged by have produced FL DL B4361C159794C	efore me this 6th day of September, 2019
KYLE KEEN  Commission # GG 343961  Expires August 30, 2023  Bonded Thru Troy Fain Insurance 800-385-7019	Signature of person taking acknowledgment  Name typed, printed, or stamped  Note;  Title or rank

Serial number (if applicable)

Inst. Number: 201912022017 Book: 1394 Page: 2612 Page 1 of 4 Date: 9/19/2019 Time: 3:41 PM

P.DeWitt Cason Clerk of Courts, Columbia County, Florida Doc Deed: 0.70

Prepared By:

Charles L Jenkins

After Recording Return To: 5707 TPC BLVD Tampa, Florida 33558

Inst: 201912022017 Date: 09/19/2019 Time: 3:41PM Page 1 of 4 B: 1394 P: 2612, P.DeWitt Cason, Clerk of Court Columbia, County, By: BD Deputy ClerkDoc Stamp-Deed: 0.70

SPACE ABOVE THIS LINE FOR RECORDER'S USE

#### **QUITCLAIM DEED**

WITNESSETH, on September 06, 2019 THE GRANTOR(S),

- Carolyn R Griffin, a married person,

for and in consideration of the sum of: One Dollar (\$1.00) and/or other good and valuable consideration to the below Grantee(s) in hand paid by the Grantee(s), the receipt whereof is hereby acknowledged:

 Charles L Jenkins, Jr and Susan K Jenkins, a married couple, residing at 5707 TPC BLVD, LUTZ, Hillsborough County, Florida 33558

Grantor does hereby remise, release, and quit-claim unto the Grantee, the Grantee's heirs and assigns forever, all the rights, title, interest, claim of the Grantor in and to the following described land, in an unincorporated area in the County of Columbia, state of FLORIDA to wit:

#### Legal Description:

Section 27, Township 4 South, Range 17 East Columbia County, Florida: Commence at the Southeast Corner of the Northwest ¼ of the Southwest ¼ of Section 27, Township 4 South, Range 17 East, Columbia County, Florida and run N.01°16'30" W. along the East line of said Northwest ¼ of the Southwest 1/4 a distance of 663.83 feet; thence S.88°59'35"W. 40.00 feet to a point on the Westerly Right-of-Way line of SE Country Club Road; thence N.01°16'30"W. along said Westerly Right-of-Way line 999.95 feet to the Northeast corner of a parcel of land described in O.R. Book 1281, Page 641 of the Public Records of Columbia County, Florida, and

Inst. Number: 201912022017 Book: 1394 Page: 2613 Page 2 of 4 Date: 9/19/2019 Time: 3:41 PM

P.DeWitt Cason Clerk of Courts, Columbia County, Florida Doc Deed; 0.70

the POINT OF BEGINNING; thence S.89°25'27"W. along the North line of said parcel of land described in O.R. Book 1281, Page 641 a distance of 174.14 feet; thence N.01°15'47"W. 251.44 feet; thence S.89°43'10"E. 174.14 feet to a point of the Westerly Right-of-Way line of SE Country Club Road; thence S.01°16'30"E. along said Westerly Right-of-Way line 248.84 feet to the POINT OF BEGINNING. Containing 1.00 acres, more or less. Being those same lands described in O.R. Book 839, Page 1240 of the Public Records of Columbia County, Florida.

To have and to hold the same together with all and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate, right, title, interest, lien, equity, and claim whatsoever for the Grantor, either in law or equity, to the only proper use, benefit and behoof of the Grantee forever.

A transfer among family members where only nominal consideration is given

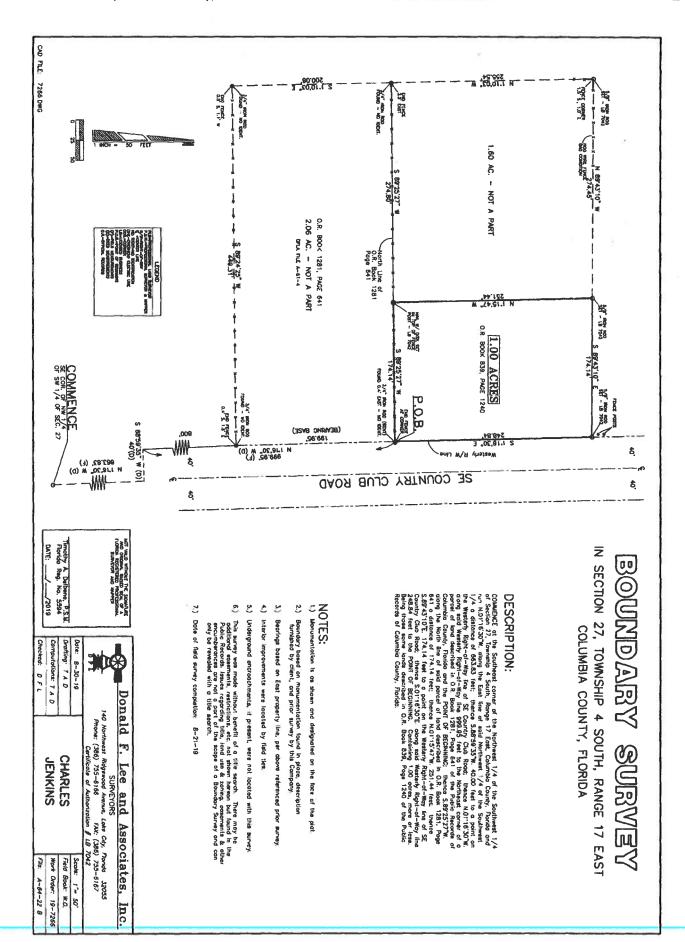
Tax Parcel Number: 27-4S-17-08754-008

Mail Tax Statements To: Charles L Jenkins 5707 TPC BLVD Tampa, Florida 33558

**[SIGNATURE PAGE FOLLOWS]** 

Inst. Number: 201912022017 Book: 1394 Page: 2614 Page 3 of 4 Date: 9/19/2019 Time: 3:41 PM P.DeWitt Cason Clerk of Courts, Columbia County, Florida Doc Deed: 0.70

DATED: 9/11/19  Carolyn R Griffin 212 N Wind Court Ponte Vedra, Florida, 32082  In Witness Whereof,  Witness  Witness  Denois Van Devan  STATE OF FLORIDA, COUNTY OF ST. JOHNS, ss:  The foregoing instrument was acknowledged before me this 1 day of September 2019 by Carolyn R Griffin, who are personally known to have produced 100 day of as identification.	
Carolyn R Griffin 212 N Wind Court Ponte Vedra, Florida, 32082  In Witness Whereof,  Witness  Witness  Denois Van Devan  Down Mussel  STATE OF FLORIDA, COUNTY OF ST. JOHNS, ss:  The foregoing instrument was acknowledged before me this day of	×
Carolyn R Griffin 212 N Wind Court Ponte Vedra, Florida, 32082  In Witness Whereof,  Witness  Witness  Denois Van Devan  Down Mussel  STATE OF FLORIDA, COUNTY OF ST. JOHNS, ss:  The foregoing instrument was acknowledged before me this day of	*
212 N Wind Court Ponte Vedra, Florida, 32082  In Witness Whereof,  Witness  Witness  Dennis Van Devan  Dohn Musser  STATE OF FLORIDA, COUNTY OF ST. JOHNS, ss:  The foregoing instrument was acknowledged before me this day of, 2319 by Carolyn R Griffin, who are personally known to	
In Witness Whereof,  Witness  Witness  Dennis Van Devzen  STATE OF FLORIDA, COUNTY OF ST. JOHNS, ss:  The foregoing instrument was acknowledged before me this day of	× v
Witness  Dennis Van Deven  Dohn Musser  STATE OF FLORIDA, COUNTY OF ST. JOHNS, ss:  The foregoing instrument was acknowledged before me this 1 day of September , 2019 by Carolyn R Griffin, who are personally known to	
Dennis Van Devren  Duval  STATE OF FLORIDA, COUNTY OF ST. JOHNS, ss:  The foregoing instrument was acknowledged before me this 1 day of September , 2019 by Carolyn R Griffin, who are personally known to	v
Dennis Van Devren  Duval  STATE OF FLORIDA, COUNTY OF ST. JOHNS, ss:  The foregoing instrument was acknowledged before me this 1 day of September , 2019 by Carolyn R Griffin, who are personally known to	
STATE OF FLORIDA, COUNTY OF ST. JOHN'S, ss:  The foregoing instrument was acknowledged before me this day of, 2019 by Carolyn R Griffin, who are personally known to	
The foregoing instrument was acknowledged before me this \( \frac{1}{2019} \) day of \( \frac{5019}{2019} \) by Carolyn R Griffin, who are personally known to	
The foregoing instrument was acknowledged before me this \( \frac{1}{2019} \) day of \( \frac{5019}{2019} \) by Carolyn R Griffin, who are personally known to	
September, 2019 by Carolyn R Griffin, who are personally known to	
have produced FCDL as identification.	
	me or wno
X Amelian	
Signature of person taking acknowled	gment
Christian Retains	
Name typed, printed, or stamped	
Notary	
Title or rank	
66227268	
Serial number (if applicable)	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
CHRISTIAN RETANA Notary Public - State of Florida	



#### **Columbia County Property Appraiser**

Jeff Hampton

Area Use Code\*\*

Parcel: << 27-4\$-17-08754-003 >>

4.67 AC

SINGLE FAM (000100)

Owner & Property Info JENKINS CHARLES LACY JR & SUSAN KAY JENKINS Owner 5707 TPC BLVD LUTZ, FL 33558 5310 COUNTRY CLUB RD, LAKE CITY Site COMM SE COR OF NW1/4 OF SW1/4, RUN N 663.83 FT, W 40 FT, N 800 FT FOR POB, W 450 FT, N 200 FT, E 450 FT, S 200 FT TO POB. & COMM SE COR OF NW1/4 OF SW1/4, RUN N 663.83 FT, W 40 FT, N 1000 FT, W 174.14 FT FOR POB, CONT W 275.86 FT MOL, N 255.54 FT, E 275.86 ...more>>> Description\* S/T/R 27-45-17

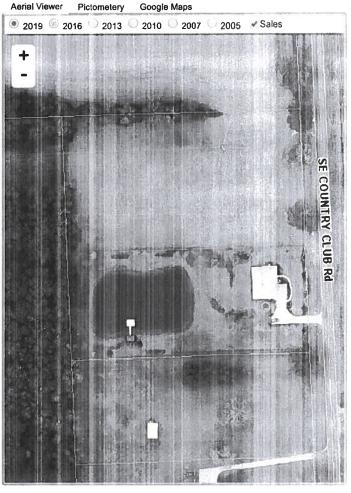
Tax District

3

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

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

Property &	Assessment Values			
2019 Certified Values		2020 Working Values		
Mkt Land (4)	\$22,473	Mkt Land (7)	\$49,403	
Ag Land (0)	\$0	Ag Land (0)	\$0	
Building (1)	\$187,789	Building (1)	\$192,153	
XFOB (2)	\$5,268	XFOB (2)	\$5,268	
Just	\$215,530	Just	\$246,824	
Class	\$0	Class	\$0	
Appraised	\$215,530	Appraised	\$246,824	
SOH Cap [?]	\$11,614	SOH Cap [?]	\$0	
Assessed	\$203,916	Assessed	\$246,824	
Exempt	HX H3 OTHER \$100,000	Exempt	\$0	
Total	county:\$103,491 city:\$153,491	Total	county:\$246,824 city:\$246,824	
Taxable	other:\$153,491 school:\$178,916	Taxable	other:\$246,824 school:\$246,824	



Sales History						
Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
9/4/2014	\$100	1281/0641	WD	1	U	11
1/25/2008	\$0	1148/0994	QC	1	U	01

▼ Building Cha	aracteristics					
Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	2	SINGLE FAM (000100)	2015	1898	2782	\$187,789

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

Extra Features & Out Buildings (Codes)						
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	2015	\$4,468.00	2234.000	0 x 0 x 0	( <b>0</b> 00.00)
0169	FENCE/WOOD	2017	\$800.00	1.000	0 x 0 x 0	<b>(0</b> 00.00)

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
000100	SFR (MKT)	1.560 AC	1.00/1.00 1.00/1.00	\$8,725	\$13,611
000000	VAC RES (MKT)	0.500 AC	1.00/1.00 1.00/1.00	\$8,725	\$4,362
009945	WELL/SEPT (MKT)	1.000 UT - (0.000 AC)	1.00/1.00 1.00/1.00	\$3,250	\$3,250
009947	SEPTIC (MKT)	1.000 UT - (0.000 AC)	1.00/1.00 1.00/1.00	\$1,250	\$1,250

# Application 44769



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

PERMIT NO.	20-0230
DATE PAID:	3/9/20
FEE PAID:	310.00
RECEIPT #:	1474905

Page 1 of 4

APPLICATION FOR:  [ \( \) New System [ ] Existing System [ ] Holding Tank [ ] Innovative  [ ] Repair [ ] Abandonment [ ] Temporary [ ]
APPLICANT: Charles Jenkins
AGENT: ROCKY FORD, A & B CONSTRUCTION TELEPHONE: 386-497-2311
MAILING ADDRESS: 546 SW Dortch Street, FT. WHITE, FL, 32038
TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTE 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: NA BLOCK: NA SUB: NA PLATTED:
PROPERTY ID #: 27-4s-1708754-003 ZONING: I/M OR EQUIVALENT: [ Y / N ]
PROPERTY SIZE: 4.67 ACRES WATER SUPPLY: [X ] PRIVATE PUBLIC [ ] <= 2000GPD [ ] > 2000GPD
IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / N ] DISTANCE TO SEWER: NA FT
PROPERTY ADDRESS: 5310 Country Club Rd Lake City
DIRECTIONS TO PROPERTY: 441 South Left on 41 South Left on Hillcrest Lane Left on
SE Country Club Ln to address on Left
BUILDING INFORMATION [ Y ] RESIDENTIAL [ ] COMMERCIAL
Unit Type of No. of Building Commercial/Institutional System Design No Establishment Bedrooms Area Sqft Table 1, Chapter 64E-6, FAC
1 Garage 0 1680
3
[ ] Floor/Equipment Drains [ ] Other (Specify)
SIGNATURE: William D. Brickop III DATE: 3/20/2020
DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated 64E-5.001, FAC

# STATE OF FLORIDA DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

	Permit Application Number 20 033
C. Jenkins PAR	T II - SITEPLAN
Scale: 1 inch = 40 feet.	
	Hand had had had had had had had had had ha
Notes:	
Site Plan submitted by: William N. Bishop	
Disco	pprovedDate_3120 20
Ву	Columbia County Health Department
ALL CHANGES MUST BE APPROVE	2/21/77

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

Page 2 of 4

PAT LYNCH LYNCH DRILLING CORP P O Box 934 Branford, FL 32008 (386)935-1076

DATE

3-18-2020

CUSTOMER

CHARLES & SUSAN JENKINS 5310 SE COUNTRY CLUB RD LAKE CITY FL 32025

LOCATION

WE WILL CONSTRUCT A 4" WATER WELL COMPLETE WITH 4" WATER WELL STEEL CASING, J 5 SUBMERSIBLE PUMP WITH 1 1/4" DROP PIPE, AND AN 55 GALLON CAPTIVE AIR TANK (21.9 GALLON DRAWDOWN).

WELL WILL BE COMPLETE AT THE WELL SITE, WE DO NOT INCLUDE ELECTRICAL NOR PLUMBING CONNECTIONS FROM THE WELL TO THE HOME AND/OR POWER POLE.

ANY VARIATIONS OF THE ABOVE ARE SUBJECT TO APPROVAL FROM THE CUSTOMER AND.OR CONTRACTOR PRIOR TO COMMENSMENT OF THE INDIVIDUAL JOB.

THANK YOU feel hyme?

NOT RESPONSIBLE FOR THE QUALITY OF WATER

(Jenkins.)

Items to Include-Each Box shall be

Circled as

Applicable
Select From Drop down

No

NA

V

Yes



3

# COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

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

#### **ALL REQUIREMENTS ARE SUBJECT TO CHANGE**

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS, FBC 1609.3.1 THRU 1609.3.3.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES Revised 7/1/18

Total (Sq. Ft.) under roof

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

**GENERAL REQUIREMENTS:** 

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

2 All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void

Two (2) complete sets of plans containing the following:

Condition space (Sq. Ft.)

Sh	esigners name and signature shall be on all documents and a licensed architect or engineer, signature a all be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL 1	nd official	embossed	seal
	ite Plan information including:	U7.1.		
4	Dimensions of the second of th			
	Dimensions of lot or parcel of land	- 4	_	
5	Dimensions of all building set backs	· - ~		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.		_	
7	Provide a full legal description of property. Was fant y Deed	- 4		
W	ind-load Engineering Summary, calculations and any details are required.	J.		<u> </u>
	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each C	s to Includ Box shall ircled as blicable	
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA
		Select Fro		
9	basic wind speed (3-second gust), miles per hour	- 4	יווי עסוע וווי	JUWH
10	(Wind exposure – if more than one wind exposure			
	is used, the wind exposure and applicable wind direction shall be indicated)	- 4	-	
11	Wind importance factor and nature of occupancy	- 1		
12	The applicable internal pressure coefficient, Components and Cladding			
	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,	-		
13	cladding materials not specifally designed by the registered design professional.			
El	evations Drawing including:			-
14	All side views of the structure	1- 1-	+	
15	Roofpitch	+		4-
16	Overhang dimensions and detail with attic ventilation	-		-
17	Location, size and height above roof of chimneys			6,00
18	Location and size of skylights with Florida Product Approval	<del> </del>		1
19	Number of stories			14
20	Building height from the established grade to the roofs highest peak	1- L		-
20				1

	Floor Plan Including:			
21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches,			
22	deck, balconies	- 0		
23	Raised floor surfaces located more than 30 inches above the floor or grade  All exterior and interior shear walls indicated	- V		
24		1 - W		
25	Shear wall opening shown (Windows, Doors and Garage doors)	-		
23	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			
26	inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.			
20	Safety glazing of glass where needed	- 6		
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth			
21	(see chapter 10 and chapter 24 of FBCR)			
28	Show stairs with dimenting (1.24)			- 1
20	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails			,
29	Identify accessibility of bathroom (see FBCR SECTION 320)			1
29	identity accessionity of bathroom (see FBCR SECTION 320)	- /		
A III				
All	materials placed within opening or onto/into exterior walls, soffits or roofs shall	have Flo	orida	produ
api	proval number and mfg. installation information submitted with the plans			
(sec	Florida product approval form)			
`				
in S	GENERAL REQUIREMENTS:	74	A 20 T 1	
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items		
	JOHN SCHWITTAL	Each E		
(9)			rcled a	
		Ар	plicabl	е
FBC	CR 403: Foundation Plans			
		Coloat E	n	
30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size	Select F	TOIN D	rop dow
	and type of reinforcing.	- 4	_	
31	All posts and/or column footing including size and reinforcing	- 1		
32	Any special support required by soil analysis such as piling.	-		
33	Assumed load-bearing valve of soil 1500 Pound Per Square Foot			-
34	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure			
	with foundation which establish new electrical utility companies service connection a Concrete	es		
	Encased Electrode will be required within the foundation to serve as an grounding electrode system.			İ
	Per the National Electrical Code article 250.52.3	1-4	-	
		1		
FBC	R 506: CONCRETE SLAB ON GRADE			
35 5	Show Vapor retarder (6mil. Polyethylene with 'pints la po 6 inches and sealed)	1 , [-		
36 5	Show control j oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Sports	1-1-	to	
	some removement and Sports			
FRC	R 318: PROTECTION AGAINST TERMITES			
	ndicate on the foundation plan if soil treatment is used for subterranean termite prevention or			
	1.1	1 1		
37 5	submit other approved termite protection methods. Protection shall be provided by registered	- 4	-	
37 5	submit other approved termite protection methods. Protection shall be provided by registered termiticides	- 4		
37 S	termiticides Treat Soil bulow 3/46)	- 4	•	
37 S FBC	R 606: Masonry Walls and Stem walls (load bearing & shear Walls)	1-4		
37 S FBC 38 S	termiticides Treat Soil bulow 3/46)	- <del> -  -  -  -  -  -  -  -  -  -  -  -  -  </del>		

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

F	oor Framing System: First and/or second story		
	Floor truss package shall including layout and details, signed and sealed by Florida Registered		
40	Professional Engineer	-	
	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,		
41	stem walls and/or priers	-	1 1
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	<del></del>	
43	Attachment of joist to girder		4
44			
45	Show required under-floor crawl space		4
46	Show required amount of ventilation opening for under-floor spaces	-	1 1
47	Show required covering of ventilation opening	-	<u></u>
48	Show the required access opening to access to under-floor spaces	-	
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &		
49	intermediate of the areas structural panel sheathing		1
50	Show Draftstopping, Fire caulking and Fire blocking		
~~~~	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	-	
52	Provide live and dead load rating of floor framing systems (psf).	-	
32	1 1 10 vide live and dead load rating of 1100r training systems (psr).	-	-
FF	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION		
		Itama	to Include-
	GENERAL REQUIREMENTS:		ox shall be
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		cled as
	그는 그리는 그렇게요. 그리는 가는 것 같아 하는 가는 맛을 하는 것을 때문에 없고 가는 것 같아.		plicable
			Drop down
53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	elect iron	Drop dow
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown		
	Show Wood structural namel's cheething ettechment to study in the decision of	-	
55	Show wood structural panel's sheathing attachment to study, joist, trusses, rafters and structural	1	
	members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	-	-
56	Show all required connectors with a max uplift rating and required number of connectors and		
30	oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems		10
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	-, _	l
58	Indicate where pressure treated wood will be placed		
20	Show all wall structural good shooting and which are the structural good shooting and which are the structural good shooting and which are the structural good shooting and shooting are the structural good shooting and shooting are the structural good shooting are		
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	1.1	
60	A detail showing cable trues begins well to be a single state of the s		
00	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	- U	
FF	CR :ROOF SYSTEMS:		
61	Truss design drawing shall most seating EDO D 200 to 132		
	Truss design drawing shall meet section FBC-R 802.10.1 Wood trusses	- 1	
63	Include a layout and truss details, signed and sealed by Florida Professional Engineer	- 4	
	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	- 4	
65	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details		
03	Provide dead load rating of trusses	- 4	
T.	RCR 902: Conventional Deaf Francis - 1		
A I	BCR 802:Conventional Roof Framing Layout		
66	Rafter and ridge beams sizes, span, species and spacing	- 4	
67	Connectors to wall assemblies' include assemblies' resistance to uplift rating	- 4	
68	Valley framing and support details	- 1	
69	Provide dead load rating of rafter system		
	CD cos poor cres a series		
rb	CR 803 ROOF SHEATHING		
70	Include all materials which will make up the roof decking, identification of structural panel	,	
	sheathing, grade, thickness Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	- 4	
71			

**ROOF ASSEMBLIES FRC Chapter 9** 72 Include all materials which will make up the roof assembles covering 73 Submit Florida Product Approval numbers for each component of the roof assembles covering 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. Items to Include-**GENERAL REQUIREMENTS:** Each Box shall be APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Circled as Applicable Select from Drop Down 74 Show the insulation R value for the following areas of the structure 75 Attic space 76 Exterior wall cavity Crawl space **HVAC** information 78 Submit two copies of a Manual J sizing equipment or equivalent computation study Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required Shown on Elec. Plan. P.2 80 Show clothes dryer route and total run of exhaust duct Plumbing Fixture layout shown 81 All fixtures waste water lines shall be shown on the foundationplan 82 Show the location of water heater Private Potable Water 83 | Pump motor horse power 84 Reservoir pressure tank gallon capacity 85 Rating of cycle stop valve if used Electrical layout shown including 86 Show Switches, receptacles outlets, lighting fixtures and Ceiling fans 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 Show the location of smoke detectors & Carbon monoxide detectors Show service panel, sub-panel, location(s) and total ampere ratings 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. Under ground 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

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

Grounding electrode system. Per the National Electrical Code article 250.52.3

a listed Combination arc-fault circuit interrupter, Protection device.

Appliances and HVAC equipment and disconnects

#### **Notice Of Commencement:**

A notice of commencement form RECORDED in the Columbia County Clerk Office is required to be filed with the Building Department BEFORE ANY INSPECTIONS can be performed.

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

**	TEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.**				
93	Will be a second of the second	Select	from	Drop	o down
1	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 for The accordance to the submitted.	1 4		_	
0.4	There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.				
94	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office				<del> </del>
-	1 (360) 730-1003 is required. A copy of property deed is also required many columbiana and a second deed in also required many columbiana and a second deed in also required many columbiana and a second deed in also required many columbiana and a second deed in also required many columbiana and a second deed in also required many columbiana and a second deed in also required many columbiana and a second deed in also required many columbiana and a second deed in also required many columbiana and a second deed deed in also required many columbiana and a second deed deed deed deed deed deed deed d	- 4			
95	Environmental Health Permit or Sewer Tan Approval A conversion				-
	Columbia County Environmental Health (386) 758-1058	- L		•	
96	City of Lake City A City Water and/or Sewer letter, Call 386-752-2031	+-			
97	Toilet facilities shall be provided for all construction sites	- 1			
98	Town of Fort White (386) 497-2321 If the parcel in the application for building		-		
	within the Corporate city limits of horr white an approval land use development later than the	- 1			/
	10 will of 1 of 1 is required to be submitted with the application for a huilding permit	-			
99	riood information: All projects within the Floodway of the Supranea or Sente Fo Bi				
	I shall require permitting through the Shwannee River Water Management District Lacture Lacture			(7)	
	wappingtion to und office. Any project incated within a flood zone where the Land of the				,
	Cicvation (100 year [1000]) has been established shall meet the requirements of Section 0.50.	_			
ļ	Columbia County Land Development Regulations. Any project leasted within a dist	1			
	where the base 11000 elevation has not been established (Zone A) shall most the accuirmnants of				
100	Soution 6.5.5 of the Countries Country Land Development Pegulations (Municada)			- 1	
100	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project of		$\neg$		$\neg \neg$
	A TANK I LOUD INIGUS SHOW HIS DICHESTY IS IN 9 A H. MICOSTROL and A H. R J	-			4
101	Tribo lottors are required for AE and AH 70nes. In the Floodyney Flood some a 7 D: 1				
	1-1 look development permit is also required for AE. Ploodway & AH. Development permit permit permit aget in the or	) -			4
	Driveway Connection: If the property does not have an existing access to a public road, then				
102	an appropriate tot a curvert permit (3/3 till) milet be made Court, but it is a constant.				-
	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	1- L	-	-	
	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.				
		[			
100	911 Address: An application for a 911 address must be applied for and received through the Columbia		+		
103	County Emergency Management Office of 911 Addressing Department (386) 758-1125.	1 4	+	-	
		-		197	
		1		- 1	- 1

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

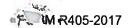
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	MASONITE	INSWING & OUTSWING STEEL	FL4904-R5
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI	VINYL SINGLEHUNG	FL12250-R10
B. HORIZONTAL SLIDER			
C. CASEMENT			4 00 200 100 100 100 100 100 100 100 100
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
With the second			
3. PANEL WALL			
A. SIDING			
B. SOFFITS	KAYCAN	ALUM SOFFIT	FL16503
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	CERTAINTEED	ASHPHALT SHINGLES	FL1814-R6
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER	WOODLAND	#30 ROOFING FELT	FL1814-R6
			The State of the S
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	1		
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS	1		

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.

NOTES:



#### RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

#### Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include: This checklist A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater). Energy Performance Level (EPL) Display Card (one page) HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7 Mandatory Requirements (five pages) Required prior to CO for the Performance Method: Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 one page) A completed Envelope Leakage Test Report (usually one page) If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 191293 Jenkins Garage - Revised Street: 5310 SE Country Club Road City, State, Zip: Lake City , FL , 32025 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) 7. Windows(111.3 sqft.) Description a. U-Factor: Dbl, U=0.30 111.33 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 31.632 ft. Area Weighted Average SHGC: 0.200 8. Floor Types (1728.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1728.00 ft² b. N/A R= ft² c. N/A R= ft²	9. Wall Types (1720.0 sqft.) a. Face Brick - Wood, Exterior b. N/A c. N/A d. N/A d. N/A R= ft² c. N/A A: R= ft² d. N/A R= ft² 10. Ceiling Types (1728.0 sqft.) b. N/A R= ft² c. N/A R= ft² 11. Ducts a. Sup: Attic, Ret: Main, AH: Main Refficiency a. Central Unit Refficiency a. Electric Heat Pump Reficiency Abuse R
Glass/Floor Area: 0.064 Total Proposed Modifie  Total Baseline	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY: Evan Beamsley DATE: 2020-03-11  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 7.00 ACH50 (R402.4.1.2).

FORM R405-2017 **INPUT SUMMARY CHECKLIST REPORT PROJECT** Title: 191293 Jenkins Garage - Rev Bedrooms: 0 Address Type: Street Address Conditioned Area: **Building Type:** User 1728 Lot# Block/Subdivision: Owner Name: **Total Stories:** # of Units: 1 Worst Case: Yes PlatBook: **Builder Name:** Rotate Angle: 90 Street: 5310 SE Country Club Permit Office: Cross Ventilation: County: Columbia Lake City, Jurisdiction: Whole House Fan: City, State, Zip: Family Type: Single-family FL, 32025 New/Existing: New (From Plans) Comment: **CLIMATE Design Temp** Int Design Temp Heating Design Daily Temp TMY Site **Design Location** 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 1728 17280 **SPACES** Number Name Volume Kitchen Area Occupants Infil ID **Bedrooms Finished** Cooled Heated Main 1728 17280 Yes 6 0 1 Yes Yes Yes **FLOORS** Floor Type Space Perimeter R-Value Area Tile Wood Carpet 1 Slab-On-Grade Edge Insulatio Main 172 ft 0 1728 ft<sup>2</sup> 0.3 0.3 0.4 **ROOF** Roof Gable Roof Rad Solar SA Emitt **Emitt** Deck Pitch # Type Materials Area Area Color Barr Absor. Tested Tested Insul. (deg) 26.6

	1	Hip	Composition shingles	1933 ft²	O ft²	Dark	N	0.92	No	0.9	No	0
					ATTIC							
$\checkmark$	#	Туре	Ventilation		Vent Ratio (1 ir	1)	Area	RBS	IRC	C		
	1	Full attic	Vented		300		1728 ft²	N	N			
	•				CEILING							
V	#	Ceiling Type	S	pace	R-Value	Ins 1	уре	Area	Frami	ng Frac	Truss T	уре

38

**Blown** 

1728 ft<sup>2</sup>

0

Main

Under Attic (Vented)

Wood

								W	ALLS							
V #	Ornt.		djace		Туре	,	Space	Cavity e R-Value	Wid ∋ Et		Height Et In	Area_		Framing Fraction	Solar	Belov Grade
1	N=>E		terior		e Brick - Woo	d	Main		54		0	540.0 ft²	tx=value	0.23	0.75	_Graue; 0
2	E=>\$	Ex	terior	Fac	e Brick - Woo	d	Main	19	32	1	0	320.0 ft²		0.23	0.75	0
3	S=>V	√ Ex	terior	Fac	e Brick - Woo	d	Main	19	54	1	0	540.0 ft²		0.23	0.75	0
4	W=>I	۱ Ex	terior	Fac	e Brick - Woo	d	Main	19	32	1	0	320.0 ft²		0.23	0.75	0
	:							DC	ORS							
$\vee$	#		Ornt		Door Type		Space			Storms	U-Valı	ie F	Width t In	Height Ft I	n	Area
	1		N=>E		Insulated		Main			None	.4	2	<u> </u>	8		16 ft²
	2		S=>W	<b>/</b>	Insulated		Main			None	.4	2	<u>!</u>	8		16 ft²
	3		S=>W	<b>/</b>	Insulated		Main			None	.4	1	0	8		BO ft²
	4		S=>V	<b>/</b>	Insulated		Main			None	.4	1	0	8		80 ft²
	5		W=>1	1	Insulated		Main			None	.4	2	<b>:</b>	8		16 ft²
					Orienta	tion sho	wn is th	WIN e entered or	DOWS ientation		nged to W	orst Case.				
\/	ш		Wall	<b>5</b>								Ove	rhang			
		Ornt 1=>E	ID 1	Frame	Panes Low-E Doub		NFRC	U-Factor		Imp	Area	•	Separation	Int Shad	de :	Screenin
			1	Metal Metal	Low-E Doub		Yes Yes	0.3 0.3	0.2 0.2	N	30.0 ft <sup>2</sup> 8.0 ft <sup>2</sup>		1 ft 6 in	None		None
		=>S	2	Metal	Low-E Doub		Yes	0.3	0.2	N N	12.0 ft <sup>2</sup>	1 ft 6 in 1 ft 6 in	1 ft 6 in	None		None
		>W		Metal	Low-E Doub		Yes	0.3	0.2	N	21.3 ft <sup>2</sup>	9 ft 6 in	1 ft 6 in 1 ft 6 in	None None		None None
		=>W		Metal	Low-E Doub		Yes	0.3	0.2	N	8.0 ft <sup>2</sup>	9 ft 6 in	1 ft 6 in	None		None
		V=>N		Metal	Low-E Doub		Yes	0.3	0.2	N	32.0 ft <sup>2</sup>	99 ft 0 in		None		None
								INFILT	RATIC	)N						
	Scope		M	lethod		SL	Δ	CFM 50	ELA	E	qLA	ACH	ACI	<del>-1</del> 50		
	olehous	<u> </u>		sed AC	CH(50)	.00044		2016	110.68		8.14	.183		7		+, - · · · · · · · · · · · · · · · · · ·
								HEATING								
$\sqrt{}$	#	Syst	lem T	уре		Subty	ре			Efficienc	y (	Capacity		В	lock	Ducts
-	1			eat Pur	mn/	None				HSPF:8.		9 kBtu/hr			1	sys#1

System Type

Central Unit/

Efficiency

Capacity

SEER: 14 29 kBtu/hr

Air Flow

870 cfm

SHR

0.75

Block

1

Ducts

sys#1

Subtype

None

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT **HOT WATER SYSTEM** # System Type SubType Location EF Cap Use SetPnt Conservation 1 Propane **Tankless** Main 0.59 1 gal 60 gal 120 deg None **SOLAR HOT WATER SYSTEM FSEC** Collector Storage Cert # Company Name System Model # Collector Model # Area Volume **FEF** None None ft² **DUCTS** ---- Supply -------- Return ----Air **CFM 25** CFM25 HVAC# # Location R-Value Area Location Area Leakage Type Handler TOT OUT QN **RLF** Heat Cool 1 Attic 280 ft<sup>2</sup> 1 ft² Main Default Leakage Main 1 (Default) (Default) **TEMPERATURES** Programable Thermostat: Y Ceiling Fans: Cooling Heating Venting Jan X Jan Jan [X] Jun | Jun | Jun [X] Jul [ ] Jul [ ] Jul Dec |X| Dec | Dec Thermostat Schedule: HERS 2006 Reference Hours Schedule Type 2 3 7 4 5 6 8 9 10 11 12 78 80 78 78 Cooling (WD) 78 78 78 78 78 78 78 78 78 78 80 78 80 78 80 78 Cooling (WEH) 78 68 68 68 68 68 66 68 66 Heating (WD) 66 68 66 68 66 68 68 68 66 68 68 68 68 68

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

66 68 68 68 68 68 68 68 68 66 68 66

66 68

66 68

Heating (WEH)

66 68

## **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

#### **ESTIMATED ENERGY PERFORMANCE INDEX\* = 95**

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

1. New home or, addition	New (From Plans)	12. Ducts, location & insulation level
1. New Home of, addition	1. New (1 Tottl Flatis)	a) Supply ducts R 6.0
2. Single-family or multiple-family	2. Single-family	b) Return ducts R 6.0
	<del></del>	c) AHU location Main
3. No. of units (if multiple-family)	31	
4. Number of bedrooms	4. 0	13. Cooling system: Capacity 29.0
		a) Split system SEER
5. Is this a worst case? (yes/no)	5Yes	b) Single package SEER
		c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. <u>1728</u>	d) Room unit/PTAC EER
7 Mindows type and area		e) Other14.0
7. Windows, type and area a) U-factor:(weighted average)	7a. 0.300	
b) Solar Heat Gain Coefficient (SHGC)	7a. <u> </u>	14 Heating quaters Conneits 20.0
c) Area	76. 0.200 7c. 111.3	14. Heating system: Capacity 29.0 a) Split system heat pump HSPF
o) Alea	70. <u>111.3</u>	a) Split system heat pump HSPF      b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8aNA	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. NA	e) Gas furnace, tradurar gas AFUE
b) cold. Float call coombient (office)	OD	f) Other 8.50
9. Floor type, insulation level:		1, 5 1161
a) Slab-on-grade (R-value)	9a0.0_	
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)	9c.	a) Electric resistance EF
·, · · · · · · · · · · · · · · · · · ·		b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG EF 0.59
A. Exterior:		d) Solar system with tank EF
1. Wood frame (Insulation R-value)	10A1. 19.0	e) Dedicated heat pump with tank EF
2. Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
Wood frame (Insulation R-value)	10B1	<del>-</del> ,
<ol><li>Masonry (Insulation R-value)</li></ol>	10B2	
		16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a. <u>38.0</u>	b) Cross ventilation No
b) Single assembly	11b	c) Whole house fan No
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	11d. <u>No</u>	e) Multizone heating credit
		f) Programmable thermostat Yes
*Lobel required by Caption D202 1 2 of the El	eside Duilding Code - Enc	Consequence if and DEFAULT
*Label required by Section R303.1.3 of the Fl	onda building Code, Ene	ergy Conservation, if not DEFAULT.
I certify that this home has complied with the	Florida Building Code, F	nergy Conservation, through the above energy
saving features which will be installed (or exc	eeded) in this home hefo	ore final inspection. Otherwise, a new EDI
display card will be completed based on insta		
The state of the s		<del></del>
Builder Signature:		Date:
-	10070	
Address of New Home: 5310 SE Country Cl	uh Dood	City/El Zin: Lake City El 22025

# Florida Building Code, Energy Conservation, 6th Edition (2017) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:	5310 SE Country Club Road	Permit Number:	-	
	Lake City , FL , 32025			

	care only in a control of the contro
MAN	IDATORY REQUIREMENTS See individual code sections for full details.
$\checkmark$	SECTION R401 GENERAL
	R401.3 Energy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
	R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
	<b>Exception:</b> Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
	R402.4.1 Building thermal envelopes building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
	R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
	R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
	<b>Exception:</b> Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.
	During testing:  1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.  2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.  3. Interior doors, if installed at the time of the test, shall be open.  4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.  5. Heating and cooling systems, if installed at the time of the test, shall be turned off.  6. Supply and return registers, if installed at the time of the test, shall be fully open.
	<b>R402.4.2 Fireplaces.</b> New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	R402.4.3 Fenestration air leakageWindows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)	
R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.  Exceptions:	
<ol> <li>Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.</li> <li>Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.</li> </ol>	
R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.	
R403.1 Controls. SECTION R403 SYSTEMS	
R403.1.1 Thermostat provision (Mandatory).  At least one thermostat shall be provided for each separate heating and cooling system.	
R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.	
R403.3.2 Sealing (Mandatory)  All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.	
Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.	
R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent	
of the design airflow rate when tested in accordance with ASHRAE 193.  R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods:	
<ol> <li>Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the</li> </ol>	ne est
<ol> <li>Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.</li> </ol>	
Exceptions:	
<ol> <li>A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.</li> </ol>	
<ol><li>Duct testing is not mandatory for buildings complying by Section 405 of this code.</li></ol>	
A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.	
R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.	
R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.	
R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.	
R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory)Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.	
R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.	
R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance	

with the times when heated water is used in the occupancy.

MA	ANDATORY REQUIREMENTS - (Continued)
	R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
	R403.5.6 Water heater efficiencies (Mandatory).
	R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
	R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
	R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
	R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
	<ol> <li>Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and</li> <li>Be installed at an orientation within 45 degrees of true south.</li> </ol>
	R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
	R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
	Exception: Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
	R403.6.2 Ventilation air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
	<ol> <li>The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.</li> </ol>
	<ol> <li>No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.</li> </ol>
	If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
	R403.7 Heating and cooling equipment (Mandatory).
	R403.7.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.
	TABLE R403.6.1

## WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY <sup>a</sup> (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

INDATORY REQUIREMENTS - (Continued)
R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.
Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.
Exceptions:
<ol> <li>Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.</li> <li>2.</li> </ol>
When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.
R403.7.1.2 Heating equipment capacity.
R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
R403.7.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
<ol> <li>A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.</li> </ol>
<ol> <li>A variable capacity system sized for optimum performance during base load periods is utilized.</li> </ol>
R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.
R403.9 Snow melt and ice system controls (Mandatory) Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
R403.10 Pools and permanent spa energy consumption (Mandatory).  Shall be in accordance with Sections R403.10.1 through R403.10.5.
R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.
Exceptions:
<ol> <li>Where public health standards require 24-hour pump operation.</li> <li>Pumps that operate solar- and waste-heat-recovery pool heating systems.</li> </ol>
Pumps that operate solar- and waste-near-recovery poor nearing systems.     Where pumps are powered exclusively from on-site renewable generation.
R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered
energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.  R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

	R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
	R403.11 Portable spas (Mandatory) e energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
EL	ECTRICAL POWER AND LIGHTING SYSTEMS
	R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
	Exception: Low-voltage lighting.
	R404.1.1 Lighting equipment (Mandatory)Fuel gas lighting systems shall not have continuously burning pilot lights.

# 2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

#### **TABLE 402.4.1.1** AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:

191293 Jenkins Garage - Revised

Street: City, State, Zip: 5310 SE Country Club Road Lake City , FL , 32025

Builder Name:

Permit Office: Permit Number:

쏤

Owner:	Jurisdiction:		CHEC
Design Location:	FL, Gainesville		5
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum.  Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned space	es.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer.  Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

## **Envelope Leakage Test Report (Blower Door Test)**

Residential Prescriptive, Performance or ERI Method Compliance 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction:		Permit #:	· · · · · ·	
Jol	Information				
Bui	lder:	Community:		Lot:	NA
Add	dress: 5310 SE Country Club	Road			
City	: Lake City	State	: FL	Zip: 320	025
Aiı	Leakage Test Results	Passing results must meet of	either the Performance,	Prescriptive,	or ERI Method
the	changes per hour at a pressure of  PERFORMANCE or ERI METHOL e selected ACH(50) value, as shown or	0.2 inch w.g. (50 Pascals) in Clim  O-The building or dwelling unit sha	all be tested and verified as or R406-2017 (ERI), sect	s having an air l ion labeled as in	eakage rate of not exceeding
	PASS	y Volume ACH(50) n 3, Mechanical Ventilation in	OF	Retrieved from	ating building volume: n architectural plans e calculated d and calculated
Tes 489 pro Dui 1. E con 2. E me 3. I 4. E 5. I	22.4.1.2 Testing. Testing shall be conceiting shall be conducted by either individuals. (a) (b) (c) (c) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	iduals as defined in Section 553.9 ird party. A written report of the re be performed at any time after cre and stove doors shall be closed, b keup air, back draft and flue damp the test, shall be open. In systems and heat recovery vent d at the time of the test, shall be t	193(5) or (7), Florida Statusults of the test shall be signation of all penetrations of the test shall be signation of all penetrations of the test shall be closed, but not sealed, becomes shall be closed and turned off.	es.or individuals gned by the par f the building th intended weath ot sealed beyon	s licensed as set forth in Section rty conducting the test and ermal envelope. erstripping or other infiltration
Te	esting Company				
11	ompany Name: nereby verify that the above Air Lea nergy Conservation requirements a		ce with the 2017 6th Ed		Building Code
Si	gnature of Tester:		Date of Te	est:	
Pi	rinted Name of Tester:				
Li	cense/Certification #:		Issuing Authority: _		

# **Residential System Sizing Calculation**

## Summary

5310 SE Country Club Road Lake City, FL 32025 Project Title: 191293 Jenkins Garage - Revised

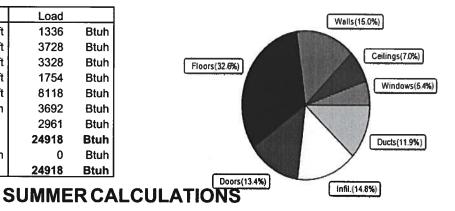
2020-03-11

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(TMY	3 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	24918	Btuh	Total cooling load calculation	20499	Btuh				
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh				
Total (Electric Heat Pump)	116.4	29000	Sensible (SHR = 0.75)	131.6	21750				
Heat Pump + Auxiliary(0.0kW)	116.4	29000	Latent	182.8	7250				
			Total (Electric Heat Pump)	141.5	29000				

#### **WINTER CALCULATIONS**

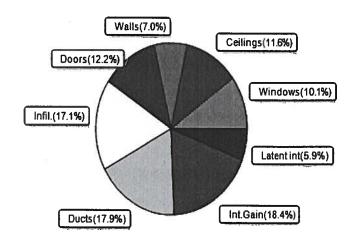
Winter Heating Load (for 1728 sqft)

Load component			Load	
Window total	111	sqft	1336	Btuh
Wall total	1401	sqft	3728	Btuh
Door total	208	sqft	3328	Btuh
Ceiling total	1728	sqft	1754	Btuh
Floor total	1728	sqft	8118	Btuh
Infiltration	84	cfm	3692	Btuh
Duct loss			2961	Btuh
Subtotal			24918	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			24918	Btuh



Summer Cooling Load (for 1728 sqft)

Load component			Load	
Window total	111	sqft	2062	Btuh
Wall total	1401	sqft	1435	Btuh
Door total	208	sqft	2496	Btuh
Ceiling total	1728	sqft	2368	Btuh
Floor total			0	Btuh
Infiltration	63	cfm	1315	Btuh
Internal gain			3780	Btuh
Duct gain			3076	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			16533	Btuh
Latent gain(ducts)			584	Btuh
Latent gain(infiltration)			2182	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			3966	Btuh
TOTAL HEAT GAIN			20499	Btuh



Amendy 8th Edition

EnergyGauge® System Sizing PREPARED BY: <u>Evan Beamsley</u>

DATE: 2020-03-11

### **System Sizing Calculations - Winter**

### Residential Load - Whole House Component Details Project Title:

5310 SE Country Club Road Lake City, FL 32025 191293 Jenkins Garage - Revised Building Type: User

2020-03-11

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%) This calculation is for Worst Case. The house has been rotated 270 degrees.

### **Component Loads for Whole House**

Window	Panes/Type	Frame U	Orientation .	Area(sqft) X	HTM=	Load	
1	2, NFRC 0.20	Metal 0.30	W	30.0	12.0	360 Btuh	
2	2, NFRC 0.20	Metal 0.30	W	8.0	12.0	96 Btuh	
3	2, NFRC 0.20	Metal 0.30	N	12.0	12.0	144 Btuh	
4	2, NFRC 0.20	Metal 0.30	E	21.3	12.0	256 Btuh	
5	2, NFRC 0.20	Metal 0.30	E	8.0	12.0	96 Btuh	
6	2, NFRC 0.20	Metal 0.30	S	32.0	12.0	384 Btuh	
	Window Total			111.3(sqft)		1336 Btuh	
Walls	Туре	Ornt. Ueff.	R-Value	Area X	HTM=	Load	
			(Cav/Sh)		ŀ		
1	Face Br - Wood		19.0/0.0	486	2.66	1294 Btuh	
2	Face Br - Wood		19.0/0.0	308	2.66	820 Btuh	
3	Face Br - Wood		19.0/0.0	335	2.66	891 Btuh	
4	Face Br - Wood - Ext (0.067) 19.0/0.0 272 2.66						
	Wall Total		-	1401(sqft)		3728 Btuh	
Doors	Type	Storm Ueff.		Area X	HTM=	Load	
1	Insulated - Exterio			16	16.0	256 Btuh	
2	Insulated - Exterio	or, n (0.400)		16	16.0	256 Btuh	
3	Insulated - Exterio			80	16.0	1280 Btuh	
4	Insulated - Exterio	or, n (0.400)		80	16.0	1280 Btuh	
5	Insulated - Exterio	or, n (0.400)		16	16.0	256 Btuh	
	Door Total			208(sqft)		3328Btuh	
Ceilings	Type/Color/Surfac	e Ueff.	R-Value	Area X	HTM=	Load	
1	Vented Attic/D/Sh	ing (0.025)	38.0/0.0	1728	1.0	1754 Btuh	
	Ceiling Total			1728(sqft)		1754Btuh	
Floors	Туре	Ueff.	R-Value	Size X	HTM=	Load	
1	Slab On Grade	(1.180)	0.0	172.0 ft(pei	rim.) 47.2	8118 Btuh	
	Floor Total	<del> </del>		1728 sqft		8118 Btuh	
			1	Envelope Subt	otal:	18265 Btuh	
Infiltration	Туре	Wholehouse A	CH Volume(	cuft) Wall Ra	tio CFM=		
3	Natural		.29 17280	•		3692 Btuh	
Duct load	Average sealed, F	1 of 0.135)	2961 Btuh				
All Zones			Sensible	Subtotal All Z	cones	24918 Btuh	

### **Manual J Winter Calculations**

### Residential Load - Component Details (continued) Project Title:

5310 SE Country Club Road Lake City, FL 32025

191293 Jenkins Garage - Revised Building Type: User

2020-03-11

VHOLE HOUSE TOTALS		
Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	24918 Btu 0 Btu 24918 Btu
EQUIPMENT		
1. Electric Heat Pump	#	29000 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

### **System Sizing Calculations - Summer**

### Residential Load - Whole House Component Details

Project Title:

5310 SE Country Club Road Lake City, FL 32025 191293 Jenkins Garage - Revised

2020-03-11

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr. This calculation is for Worst Case. The house has been rotated 270 degrees.

### **Component Loads for Whole House**

	T	•					NAC		( (1)		1774		
	Туре				verha	- 1		ow Area			ITM	Load	
Window	Panes SHGC U		IS On	-							Unshaded		
1	2 NFRC 0.20, 0.30			- 1		.5ft	30.0	0.0	30.0	10	25	749	Btuh
2	2 NFRC 0.20, 0.30					.5ft	8.0	0.0	8.0	10	25		Btuh
3	2 NFRC 0.20, 0.30		No	- 1		.5ft	12.0	0.0	12.0	10	10		Btuh
4	2 NFRC 0.20, 0.30		No			.5ft	21.3	17.0		10	25	1	Btuh
5 6	2 NFRC 0.20, 0.30		No	- 1		.5ft	8.0	8.0	0.0	10	25	1	Btuh
ь	2 NFRC 0.20, 0.30 Excursion	No	No	S 99	.0f 2.	.Oft	32.0	32.0	0.0	10	11		Btuh
							444.6	<b>(4)</b>					Btuh
	Window Total						111 (s					2062	Btuh
Walls	Туре			U-Va	alue	R-Va	lue	Area	(sqft)		HTM	Load	
					Ca	av/She	eath						
1	Face Brick - Wood -	Ext		0.07	,	19.0/0	.0	486	6.0		1.0	498	Btuh
2	Face Brick - Wood -	Ext		0.07	,	19.0/0	.0	308	3.0		1.0		Btuh
3	Face Brick - Wood -			0.07	•	19.0/0	.0	334	1.7		1.0	343	Btuh
4	Face Brick - Wood -	Ext		0.07	•	19.0/0	.0	272	2.0		1.0	279	Btuh
	Wall Total							140	1 (sqft)			1435	Btuh
Doors	Туре							Area			HTM	Load	
1	Insulated - Exterior							16			12.0	192	Btuh
2	Insulated - Exterior							16			12.0		Btuh
3	Insulated - Exterior						80.0			12.0		Btuh	
4	Insulated - Exterior						80.0				12.0		Btuh
5	Insulated - Exterior					16			12.0		Btuh		
· ·	Door Total								 8 (sqft)		12.0	2496	
Ceilings	Type/Color/Surfa			U-Va	مباد	D	Volue	Area(			нтм		Diun
•	, .											Load	
1	Vented Attic/DarkSh	ingle		0.02	25	38	.0/0.0	172			1.37	2368	
	Ceiling Total								8 (sqft)			2368	<u>Btuh</u>
Floors	Туре				- 1	R-Va	lue	Siz	ze		HTM	Load	
1	Slab On Grade					0	.0	17:	28 (ft-perir	neter)	0.0	0	Btuh
	Floor Total								0 (sqft)	,		0	Btuh
		93,00							0 (04.1)	-10000			Dian
								Er	velope	Subtota	l:	8362	Btuh
nfiltration	Туре	,	Δ٠	/eran	e ACł	H	Volu	melcuff	) Wall R	atio	CFM=	Load	
	Natural		711	voiagi		22	Volu	17280		auu	63.2		DALL
Internal	ivaturai											1315	Biur
Internal				OC	cupar				cupant	,	Appliance	Load	
gain						6	>	( 23	0 +		2400	3780	Btuh
								Se	ensible E	nvelope	e Load:	13457	Btuh
Duct load	Average sealed, Sup	ply(R6.	.0-Attic	), Retu	rn(R6.0	0-Con	di)		(DGI	M of 0.2	29)	3076	Btuł
	Sensible Load All Zones							Ser	isible Lo	oad All	Zones	16533 [	

### **Manual J Summer Calculations**

Residential Load - Component Details (continued)

Project Title: Climate:FL\_GAINESVILLE\_REGIONAL\_A

5310 SE Country Club Road Lake City, FL 32025

191293 Jenkins Garage - Revised

2020-03-11

WHOLE HOUSE TOTALS			
	Sensible Envelope Load All Zones	13457	Btuh
	Sensible Duct Load	3076	Btuh
	Total Sensible Zone Loads	16533	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	16533	Btuh
<b>Totals for Cooling</b>	Latent infiltration gain (for 51 gr. humidity difference)	2182	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	584	Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	3966	Btuh
	TOTAL GAIN	20499	Btuh

EQUIPMENT		
1. Central Unit	#	29000 Btuh

\*Key: Window types (Panes - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)

(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(1/2))

(Ornt - compass orientation)



Version 8



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

RE: 2258668 - EDGLEY CONST. - JENKINS GARAGE

MiTek USA, Inc.

Site Information:

6904 Parke East Blvd.

Customer Info: Doug Edgley Const. Project Name: Jenkins Garage Model: Custom

Lot/Block: N/A

Subdivision: N/A

Address: 5310 SE Country Club Rd., N/A

State: FI City: Columbia Cty

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 18 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. 1	Seal# T19669109 T19669110	Truss Name CJ01 CJ01A	Date 3/12/20 3/12/20
2 3 4 5 6 7	T19669111 T19669112 T19669113 T19669114	CJ03 CJ03A CJ05 CJ05A	3/12/20 3/12/20 3/12/20 3/12/20
7 8 9 10	T19669115 T19669116 T19669117 T19669118	EJ01 HJ10 T01 T02	3/12/20 3/12/20 3/12/20 3/12/20
11 12 13 14	T19669119 T19669120 T19669121 T19669122	T03 T04 T04A T05	3/12/20 3/12/20 3/12/20 3/12/20 3/12/20
15 16 17 18	T19669123 T19669124 T19669125 T19669126	T06 T07 T08 T09	3/12/20 3/12/20 3/12/20 3/12/20 3/12/20



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.



MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 12,2020

Job Truss Truss Type Qty EDGLEY CONST. - JENKINS GARAGE T19669109 11 CJ01 JACK-OPEN 2258668 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:19 2020 Page 1 ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-\$RJhYKpYnghij51ET4liGjhI0\_YB1g\_?YI8Tx8zbjt\_ -2-0-0 2-0-0 1-0-0 Scale = 1:9.5 04-11 6.00 12 448 Plate Offsets (X,Y)--[2:0-1-4,0-1-9] LOADING (psf) SPACING-2-0-0 CSI. DEFL 1/defl L/d **PLATES** GRIP 244/190 **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.32 Vert(LL) 0.00 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 вс 0.07 Vert(CT) 0.00 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 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 **BRACING-**

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

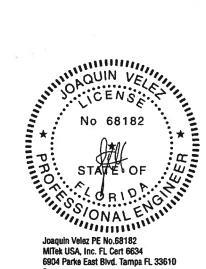
Max Horz 2=66(LC 12)

Max Uplift 3=-27(LC 1), 2=-162(LC 12), 4=-46(LC 1) Max Grav 3=25(LC 16), 2=254(LC 1), 4=44(LC 16)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) 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; 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.
- \* 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 162 lb uplift at joint 2 and 46 lb uplift at joint 4.



6904 Parke East Blvd. Tampa FL 33610

March 12,2020

MARNING - 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 properly 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 properly manage. For general guidance regarding the tabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Sefery Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST JENKINS GARAGE	
2258668	CJ01A	Jack-Open	1	1		T19669110
					Job Reference (optional)	

Builders FirstSource,

Jacksonville, FL - 32244,

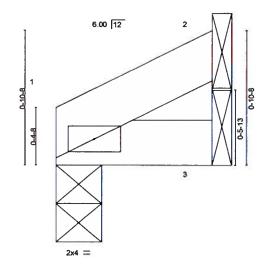
8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:23 2020 Page 1 ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-KCZCOhs3rvB8CiL?iwNeRZs3sbwwzUzbTN6g3vzbjsw

Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

1-0-0 1-0-0

Scale = 1:7.2



1-0-0 1-0-0

LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2017/TPI2014	CSI. TC 0.01 BC 0.02 WB 0.00 Matrix-MP	DEFL. in (loc) Vert(LL) -0.00 6 Vert(CT) -0.00 6 Horz(CT) -0.00 2	l/defi L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 3 lb FT = 20%
---	---	--	--	---	--

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical

Max Horz 1=24(LC 12)

Max Uplift 1=-14(LC 9), 2=-18(LC 12), 3=-11(LC 9) Max Grav 1=37(LC 1), 2=21(LC 1), 3=17(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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 18 lb uplift at joint 2 and 11 lb uplift at joint 3.



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

March 12,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-1473 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type EDGLEY CONST. - JENKINS GARAGE Qty T19669111 2258668 CJ03 JACK-OPEN Job Reference (optional) 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:25 2020 Page 1 Builders FirstSource. Jacksonville, FL - 32244  $ID:s EYaHzqKfFjjWC4MwRyP8HzjXg2-HbhypNuJMWRsR0UOpLP6W\_xKVPbVROTuxhbn7nzbjsurserver (All Market Mar$ Scale = 1:14.6 6.00 12 2 8 3-0-0 Plate Offsets (X,Y)-[2:0-1-4,0-1-9] LOADING (psf) SPACING-2-0-0 CSI. DEFL (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.32 Vert(LL) 0.01 4-7 >999 244/190 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.07 -0.01 Vert(CT) >999 180 **BCLL** 0.0 WB Rep Stress Incr YES 0.00 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MP Weight: 13 lb FT = 20%LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

**BOT CHORD** 

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

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

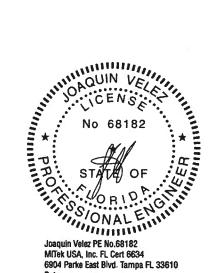
Max Horz 2=113(LC 12)

Max Uplift 3=-48(LC 12), 2=-126(LC 12), 4=-22(LC 9) Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 3, 126 lb uplift at joint 2 and 22 lb uplift at joint 4.



MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 12,2020

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Job Truss Truss Type Qty EDGLEY CONST. - JENKINS GARAGE T19669112 2258668 CJ03A Jack-Open Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:27 2020 Page 1 ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-DzojE3vZu7iZhKemxlSabP0jxCFzvIzB0\_4uCgzbjss Scale = 1:12.2 6.00 12 0.4.8 3 3-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl **PLATES** GRIP in (loc) L/d TCLL 20.Ó Plate Grip DOL 1.25 TC 0.13 Vert(LL) 0.01 >999 240 244/190 3-6 MT20 TCDL 1.25 вс 7.0 Lumber DOL 0.14 Vert(CT) -0.01 >999 180 3-6 WB BCLL 0.0 Rep Stress Incr YES 0.00 -0.00 Horz(CT) n/a n/a BCDL Code FBC2017/TPI2014 10.0 Matrix-MP Weight: 10 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **BRACING-**

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

REACTIONS.

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical

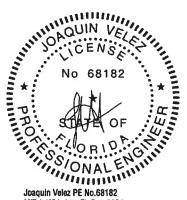
Max Horz 1=71(LC 12)

Max Uplift 1=-45(LC 9), 2=-62(LC 12), 3=-30(LC 9) Max Grav 1=109(LC 1), 2=69(LC 1), 3=53(LC 3)

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

### **NOTES-**

- 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 62 lb uplift at joint 2 and 30 lb uplift at joint 3.



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

March 12,2020

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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 properly damage. For general guidance regarding the
flabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component
Sefety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply EDGLEY CONST. - JENKINS GARAGE T19669113 2258668 CJ05 Jack-Open 11 1 | Job Reference (optional) 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:28 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-hAM5RPwBfRqQIUDyVTzp7dZrscY2elCKdeqRk6zbjsr -2-0-0 2-0-0 Scale = 1:19.5 6.00 12 5-0-0 Plate Offsets (X,Y)-[2:0-1-4,0-1-9] LOADING (psf) SPACING-2-0-0 CSI. DEFL. ìn **Vdefl** Ľ₫ **PLATES** (loc) GRIP 20.Ó TCLL Plate Grip DOL 1.25 TC 0.38 Vert(LL) 0.08 4-7 >750 240 MT20 244/190 TCDL 70 Lumber DOL 1 25 BC 0.34 0.07 Vert(CT) 4-7 >856 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a Code FBC2017/TPI2014 **BCDL** 10.0 Matrix-MP Weight: 19 lb FT = 20% LUMBER-**BRACING-**TOP CHORD

**BOT CHORD** 

REACTIONS.

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

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=162(LC 12)

Max Uplift 3=-98(LC 12), 2=-137(LC 12), 4=-44(LC 9) Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enct., 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3, 137 lb uplift at joint 2 and 44 lb uplift at joint 4.



Structural wood sheathing directly applied or 5-0-0 oc purtins.

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

MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

March 12,2020

MARNING - 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 show, 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 bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse off individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-59 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty EDGLEY CONST. - JENKINS GARAGE T19669114 2258668 CJ05A Jack-Open Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:29 2020 Page 1 ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-9MwTelxqQlyHwdo92AU2gq6?e0t5NCSTslZ?GYzbjsq Scale = 1:17.2 6.00 12 948 LOADING SPACING-CSI. DEFL **PLATES** GRIP 2-0-0 (psf) in (loc) l/defi L/d 20.0 Plate Grip DOL 1.25 TC 0.44 Vert(LL) 0.10 >596 244/190 TCLL 3-6 240 MT20 BC TCDL Lumber DOL 1.25 0.42 7.0 Vert(CT) 0.09 3-6 >683 180 BCLL 0.0 Rep Stress Incr YES WΒ 0.00 Horz(CT) -0.00 n/a n/a Code FBC2017/TPI2014 **BCDL** 10.0 Matrix-MP Weight: 16 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

REACTIONS.

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical

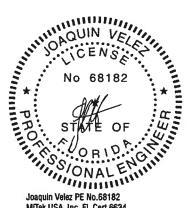
Max Horz 1=120(LC 12)

Max Uplift 1=-76(LC 9), 2=-106(LC 12), 3=-48(LC 9) Max Grav 1=183(LC 1), 2=118(LC 1), 3=90(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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \*This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 1, 106 lb uplift at joint 2 and 48 lb uplift at joint 3.



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

March 12,2020

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL7473 rev. 10/03/2015 RFFORF USF Design valid for use only with MTTeK® connectors. This design is based only upon parameters and nown, 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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building design, Bracing indicated is to prevent bucking 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/TP11 Quality Criteria, DSB-89 and BCSI Building Compo Sariety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply EDGLEY CONST. - JENKINS GARAGE T19669115 2258668 EJ01 JACK-PARTIAL 28 | Job Reference (optional) 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:30 2020 Page 1 Builders FirstSource. Jacksonville, FL - 32244, ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-dYUrs5xSB248YnNLcu?HD2e3LQ8?6fid4yJYp?zbjsp Scale: 1/2"=1" 6.00 12 A 3x4 / 7-0-0 7-0-0 Plate Offsets (X,Y)-[2:0-1-13,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** (loc) l/defi L/d GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.89 Vert(LL) 0.33 4-7 >250 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.76 Vert(CT) 0.29 4-7 >287 180 0.0 **BCLL** Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 n/a n/a BCDL Code FBC2017/TPI2014 10.0 Matrix-MS Weight: 26 lb FT = 20%LUMBER-**BRACING-**2x4 SP No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 9-10-2 oc bracing. REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=144(LC 12)

Max Uplift 3=-94(LC 12), 2=-115(LC 9), 4=-62(LC 9) Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(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) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 3, 115 lb uplift at joint 2 and 62 lb uplift at joint 4.



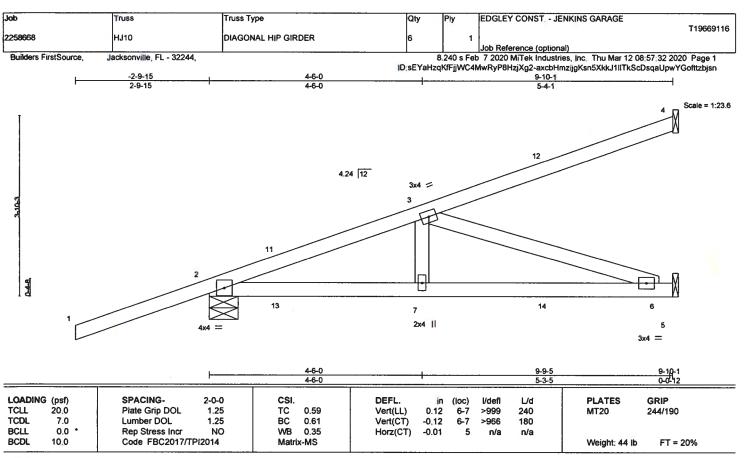
Joaquin Velez PE No.68182 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

March 12,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK 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 building 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Comp. Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 7-7-1 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-7-6, 5=Mechanical

Max Horz 2=233(LC 4)

Max Uplift 4=-143(LC 4), 2=-345(LC 4), 5=-216(LC 5) Max Grav 4=150(LC 1), 2=463(LC 1), 5=266(LC 3)

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

TOP CHORD

2-3=-628/448

2-7=-511/573, 6-7=-511/573 **BOT CHORD** 

WEBS

3-6=-603/538

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 4, 345 lb uplift at joint 2 and 216 lb uplift at joint 5.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 103 lb up at 1-6-1, 83 lb down and 103 lb up at 1-6-1, 26 lb down and 38 lb up at 4-4-0, 26 lb down and 38 lb up at 4-4-0, and 50 lb down and 97 lb up at 7-1-15, and 50 lb down and 97 lb up at 7-1-15 on top chord, and 69 lb down and 74 lb up at 1-6-1, 69 lb down and 74 lb up at 1-6-1, 53 lb down and 30 lb up at 4-4-0, 53 lb down and 30 lb up at 4-4-0, and 40 lb down and 59 lb up at 7-1-15, and 40 lb down and 59 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) in the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

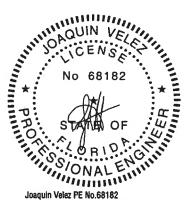
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-64(F=-32, B=-32) 13=70(F=35, B=35) 14=-49(F=-24, B=-24)



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

March 12,2020

Mark Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 10/03/2015 RFFORF USF. Design valid for use only with MITek® connectors. This design is based only upon parameters and properly incorporate this design in based only upon parameters and properly incorporate this design into the overall 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 designer. 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 \_\_\_\_\_\_XITP11 Quality Criteria, DSB-89 and BCSI Building Components.

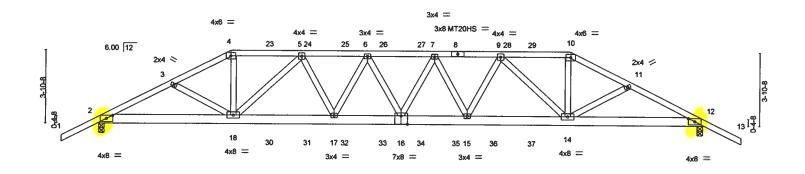
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd, Tampa, FL 36610

Job	Truss	Truss Type		Qty Ply		EDGLEY CONS	JENKINS G	ARAGE	
2258668	T01	HIP GIRDER		2	1				T19669117
	1					Job Reference (d			
Builders FirstSource, ,	Jacksonville, FL - 32244,							hu Mar 12 08:57:34	
				zqKfFjjWC4Mv	rRyP8	HzjXg2-WJjMiS?	yFHaa0Ph6rk4[	DNupmW1b32HQD	?aHmymzbis!
<u>-2-0-0</u> 3-11-1		14-2-14	17-9-2	21-3-4		25-0-0	28-0-1	32-0-0	34-0-0
' 2-0-0 ' 3-11-1	15 ' 3-0-1 '	3-8-12 3-6-2	3-6-4	3-6-2	'	3-8-12	3-0-1	3-11-15	2-0-0

Scale = 1:58.6



	7-0-0 7-0-0	12-5- 5-5-1	3 3-6-3	19-6-3 3-6-3	-	5-0-0 -5-13	+	32-0-0 7-0-0	
Plate Offsets (X,Y)-	[2:0-4-0,0-1-15], [12:0-4-	0,0-1-15], [16:0-	4-0,0-5-4]						
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress incr	2-0-0 1.25 1.25 NO	CSI. TC 0.75 BC 0.36 WB 0.79	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.49 -0.58 0.12	 l/defl >791 >664 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 244/190 187/143
CDL 10.0	Code FBC2017/T	PI2014	Matrix-MS					Weight: 197 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP M 26 2x4 SP No.3 WEBS

(size) 2=0-3-8, 12=0-3-8 Max Horz 2=61(LC 7)

Max Uplift 2=-1416(LC 5), 12=-1479(LC 4)

Max Grav 2=2366(LC 1), 12=2409(LC 1)

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

2-3=-4645/2925, 3-4=-4478/2904, 4-5=-4048/2659, 5-6=-5530/3594, 6-7=-5800/3767, 7-9=-5568/3641, 9-10=-4132/2780, 10-11=-4574/3042, 11-12=-4741/3063 TOP CHORD

**BOT CHORD** 2-18=-2600/4115, 17-18=-3296/5179, 16-17=-3666/5758, 15-16=-3684/5779,

14-15=-3344/5233, 12-14=-2686/4200

4-18=-1128/1663, 5-18=-1617/1020, 5-17=-546/808, 6-17=-535/331, 7-15=-488/271,

9-15=-489/766, 9-14=-1567/950, 10-14=-1077/1633

### NOTES-

**WEBS** 

1) Unbalanced roof live loads have been considered for this design.

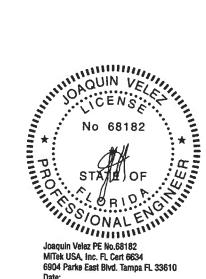
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1416 lb uplift at joint 2 and 1479 lb uplift at joint 12.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 100 lb up at 17-0-12, 106 lb down and 100 lb up at 18-11-4, 106 lb down and 100 Ib up at 20-11-4, and 106 lb down and 100 lb up at 22-11-4, and 227 lb down and 252 lb up at 25-0-0 on top chord, and 294 lb down and 335 lb up at 7-0-0, 85 lb down and 82 lb up at 9-0-12, 85 lb down and 82 lb up at 11-0-12, 85 lb down and 82 lb up at 13-0-12, 85 lb down and 82 lb up at 15-0-12, 85 lb down and 82 lb up at 17-0-12, 85 lb down and 82 lb up at 18-11-4, 85 lb down and 82 lb up at 20-11-4, and 85 lb down and 82 lb up at 22-11-4, and 294 lb down and 335 lb up at 24-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Continued on page 2

🕰 WARNING - Verify design perameters 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 show, 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. Brancing 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucaliapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSI/THY Quality Criteria, DSB-89 and BCSI Building Com Safety Information available from Truss Plate Institute, 218 N. Lee Street, Sule 312, Alexandria, VA 22314.



Structural wood sheathing directly applied or 2-1-5 oc purlins.

Rigid ceiling directly applied or 5-2-10 oc bracing.

6904 Parke East Blvd. Tampa FL 33610 Date:

March 12,2020



Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST JENKINS GARAGE
2258668	T01	HIP GIRDER	2		T19669117
		THE GINDER	-	'	Job Reference (optional)

Builders FirstSource,

Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:34 2020 Page 2 ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-WJjMiS?yFHaa0Ph6rk4DNupmW1b32HQD?aHmymzbjsl

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (ptf) Vert: 1-4=-54, 4-10=-54, 10-13=-54, 2-12=-20

Concentrated Loads (lb)

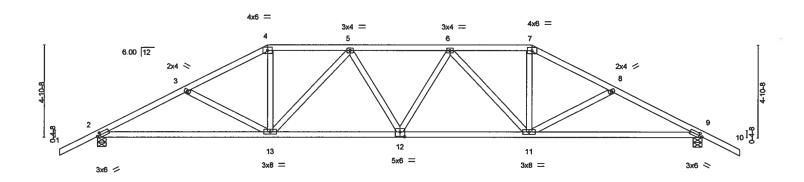
Vert: 4=-106(B) 8=-106(B) 10=-180(B) 18=-284(B) 14=-284(B) 23=-106(B) 24=-106(B) 25=-106(B) 25=-106(B) 27=-106(B) 28=-106(B) 29=-106(B) 30=-61(B) 31=-61(B) 32=-61(B) 33=-61(B) 34=-61(B) 35=-61(B) 35=-61(B) 37=-61(B)





	Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST JENKINS GARAGE			
١						1744		T19669118	
-	2258668	T02	HIP	2	1	63			
ı						Job Reference (optional)			
	Builders FirstSource, Jacksonville, FL - 32244,			8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:35 2020 Page 1					
			ji da	D:sEYaHzqKfFjjW0	4MwRyP8	3HzjXg2WHkvo?a0biReYFJP	RbSw5MzMRqbnqlN	/IEE0JUCzbjsk	
		9-0-0	13-4-6 18-7-	.9	23-0-0	27-2-8	32-0-0	34-0-0	
	2-0-0 4-9	)-8 4-2-8	4-4-7 5-3-3	3	4-4-7	4-2-8	4-9-8	2-0-0	

Scale = 1:58.6



<del> </del>	9-0-0 9-0-0	16-0-0 7-0-0	<del>23-0-0</del> <del>1</del> <del>7-0-0</del>	32-0-0 9-0-0	
Plate Offsets (X,Y)-	[2:0-1-15,0-1-8], [9:0-1-15,0-1-8], [12:	0-3-0,0-3-0]			
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2017/TPI2014	CSI. TC 0.62 BC 0.79 WB 0.40 Matrix-MS	DEFL.         in (loc)         Vdefl           Vert(LL)         0.32 11-19         >999           Vert(CT)         -0.33 11-19         >999           Horz(CT)         0.10         9         n/a	L/d PLATES 240 MT20 180 n/a Weight: 165 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.3 **WEBS** 

REACTIONS. (size) 2=0-5-8, 9=0-5-8 Max Horz 2=75(LC 11)

Max Uplift 2=-593(LC 9), 9=-593(LC 8) Max Grav 2=1292(LC 1), 9=1292(LC 1)

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

TOP CHORD 2-3=-2193/2439, 3-4=-1931/2249, 4-5=-1694/2079, 5-6=-2038/2453, 6-7=-1694/2079,

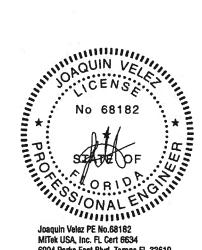
7-8=-1931/2249, 8-9=-2193/2439

**BOT CHORD** 2-13=-2048/1921, 12-13=-2090/2003, 11-12=-2094/2003, 9-11=-2078/1921 WEBS 3-13-281/356, 4-13-842/629, 5-13-528/457, 6-11-528/458, 7-11-842/629,

8-11=-281/356

### 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) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 593 lb uplift at joint 2 and 593 lb uplift at



Structural wood sheathing directly applied or 3-10-0 oc purlins.

Rigid ceiling directly applied or 3-4-11 oc bracing.

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March 12,2020

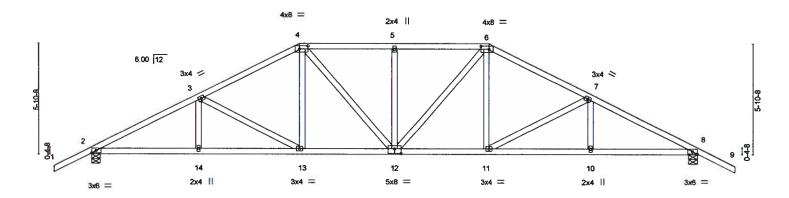
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before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

ANSITPH Quality Criteria, DSB-89 and BCSI Building Components of the property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems.



Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST JENKIN	S GARAGE	
2258668	тоз	HIP	2	1	-		T19669119
					Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,				7 2020 MiTek Industries, In		
			ID:sEYaHzqKfF	jjWC4MwF	RyP8HzjXg2-Sir6680DnuqtG	iqVz86h\$Ju85qFTWH	(3VTums0ezbjsj
	5-7-15 11	0-0 16-0-0	21-0-0	- 1	26-4-1	32-0-0	34-0-0
2-0-0	5-7-15 5-	4-1 5-0-0	5-0-0		5-4-1	5-7-15	2-0-0

Scale = 1:58.6



	1	5-7-15	11-0-0	16-0-0	21-0-0	26-4-1	32-0-0	
	I so	5-7-15	5-4-1	5-0-0	5-0-0	5-4-1	5-7-15	
Plate Offse	ts (X,Y)	[4:0-5-4,0-2-0], [6:0-5-4,0	-2-0], [8:0-2-15	,Edge], [12:0-4-0,0-3-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL) 0.21 11-12		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.50	Vert(CT) -0.22 12-13	>999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT) 0.09 8	n/a n/a	E	
BCDL	10.0	Code FBC2017/TI	PI2014	Matrix-MS	• ,		Weight: 176 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-9-8 oc purlins. Rigid ceiling directly applied or 3-11-1 oc bracing.

REACTIONS.

(size) 2=0-5-8, 8=0-5-8

Max Horz 2=88(LC 11)

Max Uplift 2=-563(LC 9), 8=-563(LC 8) Max Grav 2=1292(LC 1), 8=1292(LC 1)

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

TOP CHORD 2-3=-2206/2515, 3-4=-1778/2066, 4-5=-1705/2095, 5-6=-1705/2095, 6-7=-1778/2066, 7-8=-2206/2514

2-14=-2087/1920, 13-14=-2087/1920, 12-13=-1569/1534, 11-12=-1573/1534, **BOT CHORD** 

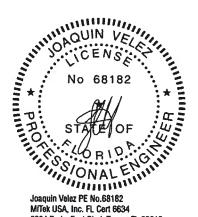
10-11=-2117/1920, 8-10=-2117/1920

3-13=-449/630, 4-13=-517/369, 4-12=-274/364, 5-12=-302/215, 6-12=-274/364, 6-11=-517/369, 7-11=-449/630 WEBS

### 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) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 563 lb uplift at joint 2 and 563 lb uplift at joint 8.



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March 12,2020

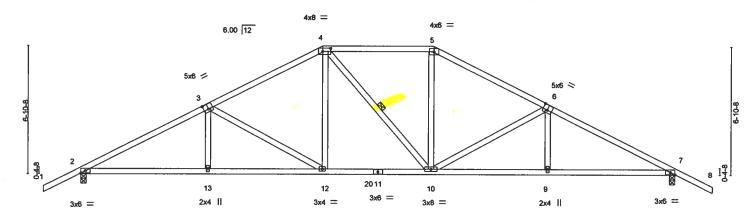
📤 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters and individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building designer must verify the applicability of design parameters and property 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 uccling with possible personal injury and property damage. For general guidance regarding the abhrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSITHE Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job		Truss	Truss Type	Qty	Ply	EDGLEY CONST.	- JENKINS GARAGE	
2258668		T04	HIP	2	1			T19669120
						Job Reference (or	otional)	
Builders F	FirstSource, Ja	acksonville, FL - 32244,			8.240 s Fet	7 2020 MiTek Ind	dustries, Inc. Thu Mar 12 08:57:3	7 2020 Page 1
				ID:sEYaHzqKfFjj	WC4MwRyl	P8HzjXg2-wuPUKU	J1rYCy9tsPhWsdw?WRHtEZQF!	ntfhYVQY5zbjsi
_	-2-0-0	6-10-2	13-0-0	19-0-0	2	5-1-14	32-0-0	, 34-0-0
'	2-0-0	6-10-2	6-1-14	6-0-0	(	3-1-14	6-10-2	2-0-0

Scale = 1:59.6



	6-10-2	6-1-	14	19-0-0 6-0-0		25-1-14 6-1-14		32-0-0 6-10-2	——
Plate Offsets (X,Y)- [3:0	<u>-3-0,0-3-4], [4:0-5-4,0-2</u>	2-0], [6:0-3-0,0-3	-4], [7:0-2-15,Edge]						
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCLL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2017/TPI	2-0-0 1.25 1.25 YES	CSI. TC 0.75 BC 0.58 WB 0.55 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.22 12-13 -0.21 12-13 0.09 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 168 lb	GRIP 244/190 FT = 20%

**BRACING-**

**WEBS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS

2x4 SP No.3

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=102(LC 11)

Max Uplift 2=-532(LC 9), 7=-532(LC 8) Max Grav 2=1292(LC 1), 7=1292(LC 1)

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

TOP CHORD 2-3=-2164/2468, 3-4=-1636/1922, 4-5=-1397/1796, 5-6=-1637/1923, 6-7=-2164/2468

**BOT CHORD** 2-13=-2039/1873, 12-13=-2042/1875, 10-12=-1397/1397, 9-10=-2065/1874,

7-9=-2062/1873

3-13=-291/271, 3-12=-557/776, 4-12=-614/434, 5-10=-612/434, 6-10=-556/775,

6-9=-290/270

### NOTES-

**WEBS** 

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) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 532 lb uplift at joint 2 and 532 lb uplift at joint 7.



Structural wood sheathing directly applied or 3-7-6 oc purtins.

Rigid ceiling directly applied or 3-9-9 oc bracing.

1 Row at midpt

6904 Parke East Blvd. Tampa FL 33610

March 12,2020

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. MARNING - Verify design parameters and READ NOTES ON THIS ARID INCLUDED MITTER REFERENCE FASE INTEREST. INVALIDATION OF THE DESIGN VALUE OF THE PROPERTY OF TH



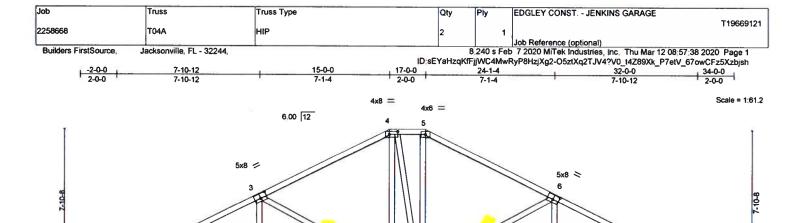


Plate Offsets (X,Y)	7-10-12 7-10-12 [3:0-4-0,0-3-0], [4:0-5-8,0-2	-0], [6:0-4-0,0-3-	15-1-12 7-3-0 0], [7:0-2-15,Edge]	16-10-4	24-1-4 7-3-0			32-0-0 7-10-12	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2017/TPI	2-0-0 1.25 1.25 YES 2014	CSI. TC 0.91 BC 0.72 WB 0.68 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.26 9-19 -0.23 12-13 0.09 7	l/defi >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 175 lb	GRIP 244/190 FT = 20%

11

3x6 =

3x4 = 3x8 =

10

12

LUMBER-

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

3x6 =

BRACING-TOP CHORD

BOT CHORD WEBS Structural wood sheathing directly applied or 2-2-0 oc purlins, Rigid ceiling directly applied or 3-7-2 oc bracing.

1 Row at midpt 3-12, 6-10

9

2x4 ||

REACTIONS.

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=-115(LC 10)

Max Uplift 2=-498(LC 9), 7=-498(LC 8) Max Grav 2=1292(LC 1), 7=1292(LC 1)

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

TOP CHORD 2-3=-2123/2426, 3-4=-1487/1770, 4-5=-1250/1667, 5-6=-1489/1773, 6-7=-2122/2425

BOT CHORD 2-13=-1993/1828, 12-13=-1992/1827, 10-12=-1213/1248, 9-10=-2009/1826,

7-9=-2010/1827 WEBS 3-13=-356/327. 6

3-13=-356/327, 6-9=-353/325, 4-12=-604/400, 5-10=-613/405, 3-12=-676/926,

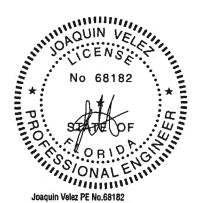
13

2x4 ||

6-10=-673/921

### 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) 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
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 498 lb uplift at joint 2 and 498 lb uplift at joint 7.



3x6 =

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

March 12,2020

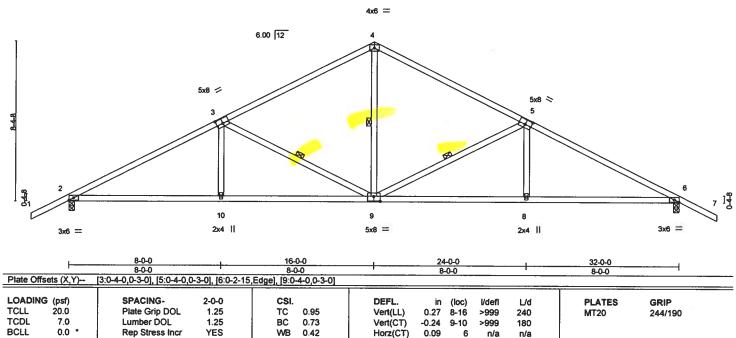
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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 his 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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.



Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST JENKINS GARAGE	
2258668	T05	MOD. QUEEN	7	1	T19	9669122
					Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,			3.240 s Feb	b 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:39 2020 Pa	ge 1
			ID:sEYaHzqKfFjj	WC4MwRy	yP8HzjXg2-sHXFIA253pCs7AZ4eHfO4xWa72CWjdSy9s Xdzzl	bisg
-2-0-0	8-0-0	16-0-0		24-0-0	32-0-0 34-0	0-0
2-0-0	8-0-0	8-0-0		8-0-0	8-0-0 2-0	10

Scale = 1:58.0



BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

**BCDL** 

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

10.0

2x4 SP No.3 WEBS

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=122(LC 11)

Max Uplift 2=-480(LC 9), 6=-480(LC 8) Max Grav 2=1292(LC 1), 6=1292(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-2123/2432, 3-4=-1439/1721, 4-5=-1439/1721, 5-6=-2123/2432

Code FBC2017/TPI2014

**BOT CHORD** 2-10=-2000/1829, 9-10=-1999/1828, 8-9=-2016/1828, 6-8=-2018/1828

4-9=-1203/804, 5-9=-730/976, 5-8=-359/332, 3-9=-730/977, 3-10=-359/332 **WEBS** 

### 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) 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

Matrix-MS

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint 2 and 480 lb uplift at joint 6.



Weight: 156 lb

Structural wood sheathing directly applied or 2-2-0 oc purlins.

4-9, 5-9, 3-9

Rigid ceiling directly applied or 3-7-0 oc bracing.

1 Row at midpt

FT = 20%

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

March 12,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-1473 rev. 10/03/2015 BEFORE USE.

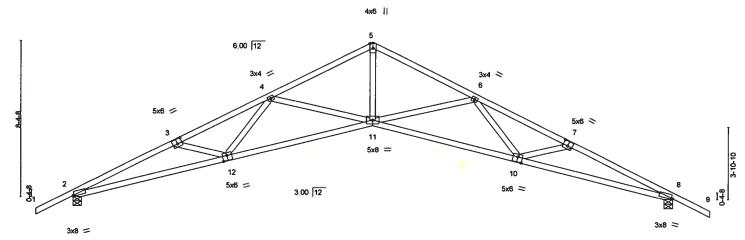
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated its 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 oclapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



į	Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST JENK	INS GARAGE	
	2258668	то6	SCISSORS	14	1			T19669123
		L				Job Reference (optional)		
	Builders FirstSource, J.	acksonville, FL - 32244,				7 2020 MiTek Industries,		
				ID:sEYaHzqKfFjj\	VC4MwRy	P8HzjXg2-LT5dyV3jq7KjkK	(BGC_Bdd93pmSVxS?E5)	NWk49Qzbjsf
		5-7-1 10-6		21-5-3		26-4-15	32-0-0	34-0-0
	2-0-0	5-7-1 ' 4-11	-12 5-5-3	5-5-3	1-	4-11-12	5-7-1	2-0-0

Scale = 1:59.2



<del> </del>	8-2-1 8-2-1		16-0-0 7-9-15	23-9-15 7-9-15		+	32-0-0 8-2-1	<del></del>
Plate Offsets (X,Y)	[2:0-0-13,0-0-8], [3:0-3-0,	0-3-0], [7:0-3-0	,0-3-0], [8:0-0-13,0-0-8],	10:0-3-0,0-3-4], [12:0-3-0,0-3-4			V2-1	
COADING (psf) FCLL 20.0 FCDL 7.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2017/TI	2-0-0 1.25 1.25 YES	CSI. TC 0.70 BC 0.91 WB 0.77 Matrix-MS	DEFL. in (loc) Vert(LL) -0.41 10-11 Vert(CT) -0.82 10-11 Horz(CT) 0.50 8	l/defl >940 >471 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 151 lb	GRIP 244/190 FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 \*Except\*

2-12,8-10; 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS. (size) 2

(size) 2=0-5-8, 8=0-5-8 Max Horz 2=122(LC 11)

Max Uplift 2=-286(LC 12), 8=-286(LC 13)

Max Grav 2=1292(LC 1), 8=1292(LC 1)

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

TOP CHORD 2-3=-3853/1911, 3-4=-3562/1721, 4-5=-2617/1236, 5-6=-2617/1236, 6-7=-3562/1751,

7-8=-3853/1948

BOT CHORD 2-12=-1597/3483, 11-12=-1262/3067, 10-11=-1274/3067, 8-10=-1641/3483 WEBS 5-11=-873/2009, 3-12=-245/305, 4-12=-136/480, 4-11=-731/561, 6-11=-731/560,

6-10=-134/480, 7-10=-245/303

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; 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.
- Bearing at joint(s) 2, 8 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 286 lb uplift at joint 2 and 286 lb uplift at joint 8.



Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 2-2-0 oc bracing.

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

March 12,2020

Design valid for use only with MTek® 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 property 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 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

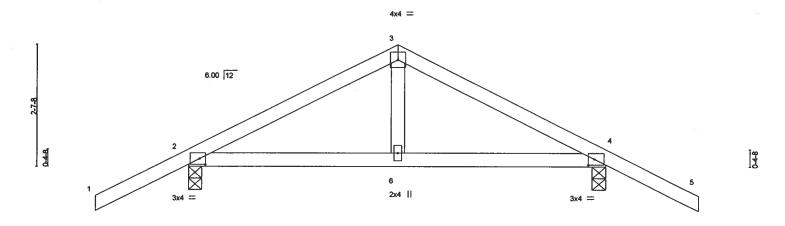
\*\*ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd. Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST JENKINS	S GARAGE	
2258668	то7	COMMON	18	1			T19669124
		<u> </u>			Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,		8	.240 s Feb	7 2020 MiTek Industries, Inc	. Thu Mar 12 08:57:41 20	20 Page 1
			ID:sEYaHzqKf	FjjWC4Mv	/RyP8HzjXg2-pge?Ar4LbQSa	MTjSliis9Mb3Tr0FBcHEc/	ATdhszbise
L	-2-0-0	4-6-0		9-0	)-O	11-0-0	1
	2-0-0	4-6-0		4-6	i-0	2-0-0	1

Scale: 1/2"=1"



4-6-0 4-6-0 4-6-0 Plate Offsets (X,Y) [2:0-1-8,0-1-9], [4:0-1-8,0-1-9]										
LOADING		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	20.0 7.0	Plate Grip DOL Lumber DOL	1.25 1.25	TC 0.3		0.03 6-12 -0.02 6-12	>999 >999	240 180	MT20	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2017/TI	YES Pi2014	WB 0.0 Matrix-MS		0.00 4	n/a	n/a	Weight: 38 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

9-0-0

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 9-2-11 oc bracing.

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 4=0-3-8

Max Horz 2=-44(LC 10)

Max Uplift 2=-148(LC 8), 4=-148(LC 9) Max Grav 2=441(LC 1), 4=441(LC 1)

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

TOP CHORD 2-3=-401/592, 3-4=-401/592

BOT CHORD 2-6=-384/314, 4-6=-384/314

WEBS 3-6=-290/192

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4-6-0

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 2 and 148 lb uplift at joint 4.



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

March 12,2020

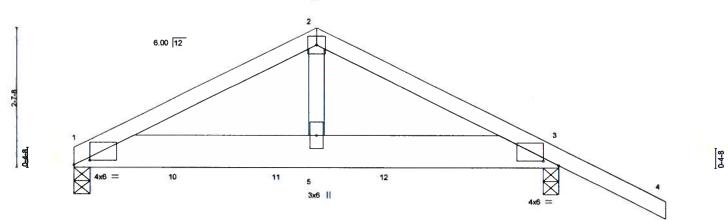
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-1473 rev. 10/03/2015 BEFORE USE.

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 bucking 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/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.



Job Truss Truss Type Qty Ply EDGLEY CONST. - JENKINS GARAGE T19669125 2258668 T08 COMMON Job Reference (optional) 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:42 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-HsCNNB5zMkbR\_dlfJPD5ja8FMFNJw1NOrqDBElzbjsd 11-0-0 Scale = 1:20.7



	4-6-0					9-0-0				5		
	F.2.	4-6-0				4-6-0					1	
Plate Offset	ts (X,Y)-	[1:0-3-7,0-1-0], [3:0-3-7,0	)-1-0 <u>]</u>									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.01	`5-7	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.02	5-7	>999	180		
3CLL	0,0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS	, , ,					Weight: 49 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-3-8, 3=0-3-8 Max Horz 1=-56(LC 32)

Max Uplift 1=-241(LC 5), 3=-222(LC 9) Max Grav 1=721(LC 1), 3=679(LC 1)

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

TOP CHORD 1-2=-862/297, 2-3=-866/293 BOT CHORD 1-5=-212/736, 3-5=-212/736

WEBS 2-5=-223/556

### 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); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 1 and 222 lb uplift at joint 3.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 360 lb down and 135 lb up at 1-11-4, 163 lb down and 96 lb up at 3-10-3, and 89 lb down and 65 lb up at 5-10-3, and 29 lb down and 22 lb up at 7-10-3 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 (ptf)

Vert: 1-2=-54, 2-4=-54, 1-3=-20

Concentrated Loads (lb)

Vert: 9=-29 10=-360 11=-163 12=-89



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

March 12,2020

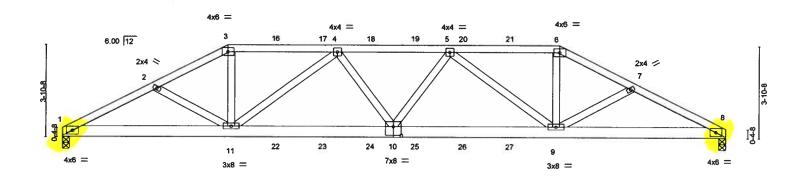
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 ray, 10/03/2015 REFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters and individual building component, not a truss system. Before use, the building designer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

ANSI/THY Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job		Truss	Truss Type		Qty	Ply	EDGLEY CONST JENKINS GA	RAGE
2258668		то9	Hip Girder		1	1		T19669126
L							Job Reference (optional)	
Builders Firs	stSource,	Jacksonville, FL - 32244,			- 1	3.240 s Feb	7 2020 MiTek Industries, Inc. Th	u Mar 12 08:57:44 2020 Page 1
				ID:s	EYaHzqk	JFjjWC4M	vRyP8HzjXg2-DFK8ot6EuLr9DxR1	1RqFZn_DUN3tfOo6hl8illBzbjsb
L	3-11-15	7-0-0	11-7-10	16-4-6		21-0	0 24-0-1	28-0-0
'	3-11-15	3-0-1	4-7-10	4-8-13	'	4-7-1	0 3-0-1	3-11-15

Scale = 1:46.7



<del> </del>	7-0-0		<del>                                     </del>	14-0-0 7-0-0					28-0-0 7-0-0		
Plate Offse	ets (X,Y)—	[10:0-4-0,0-4-8]									
LOADING TCLL	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI. TC 0,73	DEFL. Vert(LL)	in 0.37	(loc) 9-10	l/defi >918	L/d 240	PLATES MT20	GRIP 244/190
CDL SCLL	7.0 0.0 *	Lumber DOL Rep Stress Incr	1.25 NO	BC 0.92 WB 0.77	Vert(CT) Horz(CT)	-0.43 0.12	9-10 8	>779 n/a	180 n/a	2	- 1 1100
BCDL	10,0	Code FBC2017/Ti	PI2014	Matrix-MS						Weight: 157 lb	FT = 20%

**BRACING-**

**TOP CHORD** 

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x6 SP No.2

2x4 SP No.3

(size) 1=0-3-8, 8=0-3-8

Max Horz 1=-48(LC 4) Max Uplift 1=1204(LC 5), 8=1258(LC 4) Max Grav 1=1946(LC 1), 8=1983(LC 1)

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

1-2-4012/2518, 2-3-3846/2496, 3-4-3471/2287, 4-5-4538/2975, 5-6-3543/2392,

6-7=-3928/2616, 7-8=-4093/2638

**BOT CHORD** 1-11=-2265/3560, 10-11=-2829/4403, 9-10=-2852/4428, 8-9=-2325/3633 **WEBS** 

3-11=-923/1342, 4-11=-1237/777, 4-10=-222/367, 5-10=-151/347, 5-9=-1167/682,

6-9=-864/1305

### NOTES-

- 1) 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=18fi; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1204 lb uplift at joint 1 and 1258 lb uplift at joint 8.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 14-11-4, 106 lb down and 100 lb up at 16-11-4, and 106 lb down and 100 lb up at 18-11-4, and 227 lb down and 252 lb up at 21-0-0 on top chord, and 294 lb down and 335 lb up at 7-0-0, 85 lb down and 82 lb up at 9-0-12, 85 lb down and 82 lb up at 11-0-12, 85 lb down and 82 lb up at 13-0-12, 85 lb down and 82 lb up at 14-11-4, 85 lb down and 82 lb up at 16-11-4, and 85 lb down and 82 lb up at 18-11-4, and 294 lb down and 335 lb up at 20-11-4 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, 3-6=54, 6-8=54, 1-8=20

No 68182

No 68182

No 68182

Joaquin Velez PE No.68182

Structural wood sheathing directly applied or 2-4-12 oc purlins.

Rigid ceiling directly applied or 4-3-5 oc bracing.

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

March 12,2020

Continued on page 2

MARNING - 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 show, 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Sefety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST JENKINS GARAGE	
2258668	Т09	Hip Girder	1	1	Job Reference (optional)	T19669126

Builders FirstSource,

Jacksonville, FL - 32244,

| Job Reference (optional) | 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Mar 12 08:57:44 2020 Page 2 | ID:sEYaHzqKfFjjWC4MwRyP8HzjXg2-DFK8ot6EuLr9DxR1RqFZn\_DUN3tfOo6hl8illBzbjsb

### LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-106(F) 6=-180(F) 11=-284(F) 9=-284(F) 16=-106(F) 17=-106(F) 18=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-61(F) 23=-61(F) 24=-61(F) 25=-61(F) 26=-61(F) 27=-61(F)



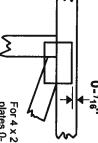
### Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.

Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- <sup>1</sup>16" from outside edge of truss.

α

O

G

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



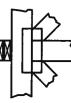
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### BEARING



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

### Industry Standards:

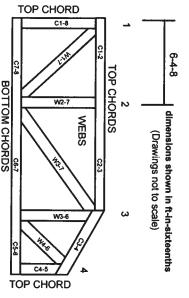
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction. DSB-89: Design Standard for Bracing.

Building Component Safety Information
Guide to Good Practice for Handling,
Installing & Bracing of Metal Plate

Connected Wood Trusses,

MiTek Engineering Reference SI

## **Numbering System**



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

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

### PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

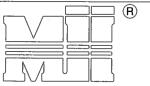
- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor! bracing should be considered.
- Never exceed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

					•	

### T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

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.

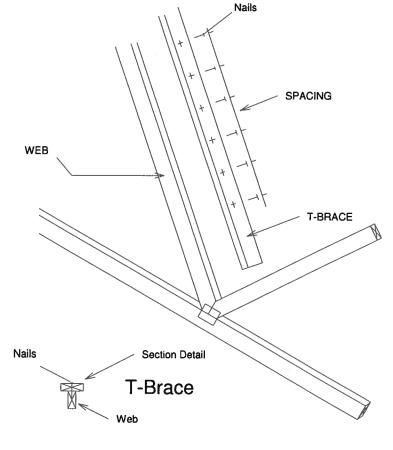
A MiTek Affiliate		
1	Nailing Pattern	774
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.

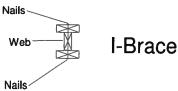
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

		e Size -Ply Truss
	Specified Rows of La	Continuous ateral 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

		ce Size -Ply Truss
		Continuous ateral 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.







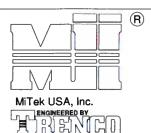
Thomas A. Albani PE No.39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

### **SCAB-BRACE DETAIL**

### MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

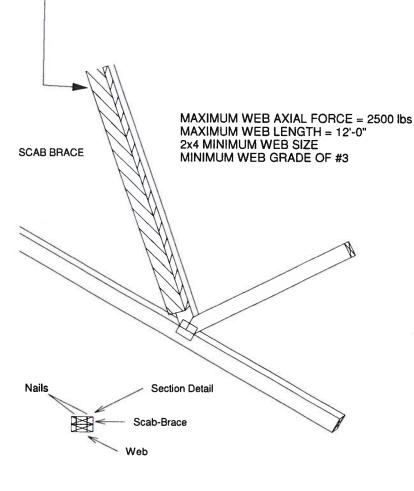


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

Scab must cover full length of web +/- 6".

\*\*\* THIS DETAIL IS NOT APLICABLE WHEN BRACING IS \*\*\* REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

APPLY 2x\_\_\_ SCAB TO ONE FACE OF WEB WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.



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

### STANDARD REPAIR TO REMOVE END **VERTICAL (RIBBON NOTCH VERTICAL)**

MII-REP05

February 12, 2018

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.



- 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.
- REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

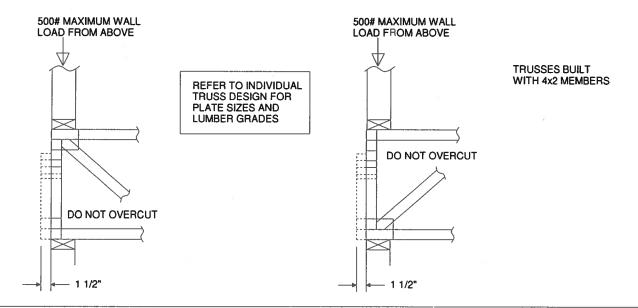
  2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

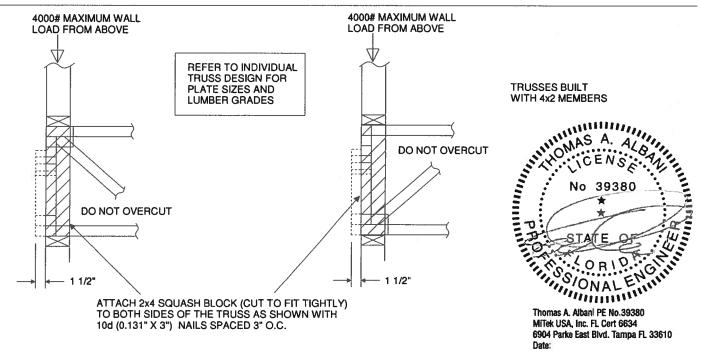
  3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.

  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.





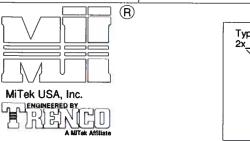


### Standard Gable End Detail

### MII-GE130-D-SP

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MiTek USA, Inc.



DIAGONAL BRACE 4'-0" O.C. MAX

Typical \_x4 L-Brace Nailed To 2x\_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING

DRAWINGS FOR DESIGN CRITERIA

3x4 =

Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails SECTION A-A 2x4\Stud

> 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.

**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. 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.

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)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
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.

NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Roof Sheath	ing
24" Max X 1'-3"	
Max.	(2) - 10d NAILS
	***
A	Trusses @ 24" o.c.
Diag. Brace at 1/3 points	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED
if needed	TO BLOCKING WITH (5) - 10d NAILS.
End Wall	HORIZONTAL BRACE
	(SEE SECTION A-A)

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

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

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET **CATEGORY II BUILDING** EXPOSURE D ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH **DURATION OF LOAD INCREASE: 1.60** 

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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

### Standard Gable End Detail

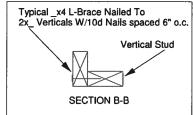
### MII-GE130-SP

Page 1 of 2

MiTek USA, Inc.



DIAGONAL BRACE 4'-0" O.C. MAX



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Vertical Stud DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails 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

Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA \*\* 3x4 = Diagonal Bracing \*\* - L-Bracing Refer Refer to Section A-A 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. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG.
ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT
BRACING OF ROOF SYSTEM.

"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.
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)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
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.

. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

24" Max	
1'-3" (2) - 10d NAILS (2) - 10d NAILS	s
Trusses @ 24" o.	c.
Diag. Brace at 1/3 points if needed 2x6 DIAGONAL BRACE SPACED 48° O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.	
End Wall HORIZONTAL BRACE (SEE SECTION A-A)	

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

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

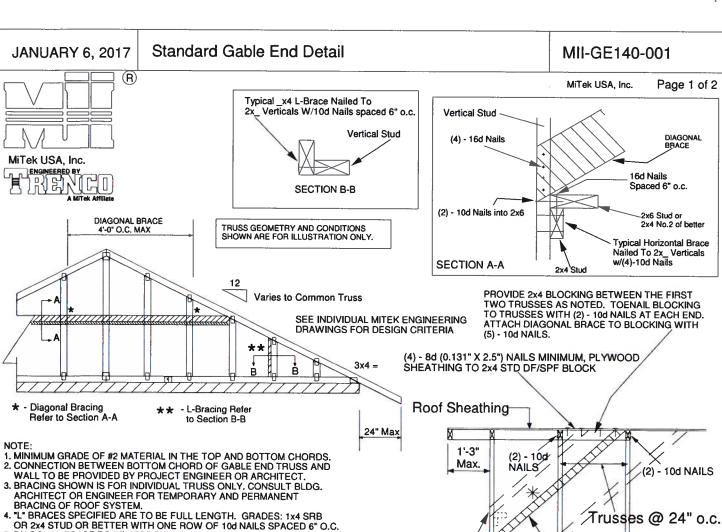
MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING **EXPOSURE B or C** ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH

**DURATION OF LOAD INCREASE: 1.60** 

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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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)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

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	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade			Maximu	n Stud Le	ngth	·
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-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.



2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

Diag. Brace

at 1/3 points

**End Wall** 

if needed

DIAGONAL

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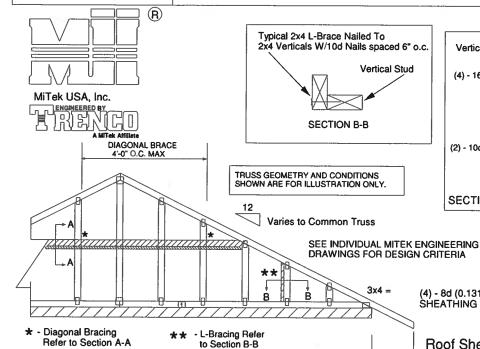
January 19, 2018

### Standard Gable End Detail

MII-GE170-D-SP



Page 1 of 2



Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 2

> 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

(2) - 10 NAILS - 1Ó¢ŀ

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 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.

"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)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240,
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
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. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

24" Max	Roof Sh	eathing-
	X	N.
	1' M	-0" (
at 1	g. Brace /3 points/ eeded	
	End Wall	

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

(2) - 10d NAILS

∕Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

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

\* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 170 MPH

**DURATION OF LOAD INCREASE: 1.60** 

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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### Standard Gable End Detail

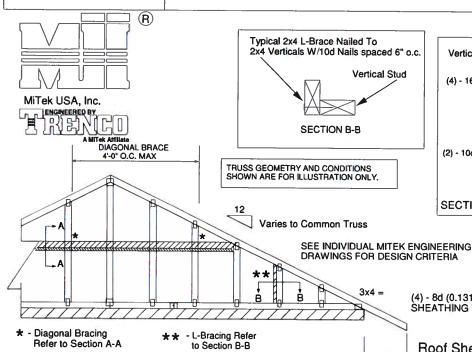
### MII-GE180-D-SP

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2X6 SP OR SPF No. 2

Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails

MiTek USA, Inc.



2X6 SP OR SPF No. 2 DIAGONAL BRACE 16d Nails Spaced 6" o.c.

SECTION A-A 2X4'SP OR SPF No. 2 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

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

(2) - 10d NAILS

(5) - 10d NAILS.

Vertical Stud

(4) - 16d Nails

(2) - 10d Nails into 2x6

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

"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.
 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 164 NAILS SPACED 6" O.C. HORIZONTAL
BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE ST
ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x
(REFER TO SECTION A-A)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

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")

	Roof Sheathing	
j	1'-0" Max.	(1
TUD.	Diag. Brace at 1/3 points if needed	\ \
	End Wall	

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

(2)

Trusses @ 24" o.c.

- 10d NAILS

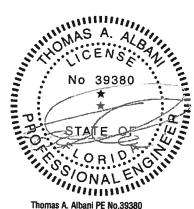
HORIZONTAL BRACE (SEE SECTION A-A)

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

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 180 MPH **DURATION OF LOAD INCREASE: 1.60** 

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS



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LENGINEERED B

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 ° O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10 **DURATION OF LOAD INCREASE: 1.60** 

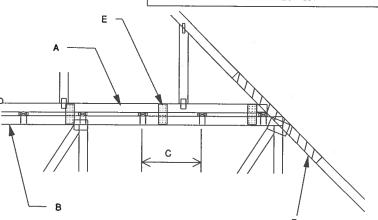
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) (0.131\* X.3.5") TOE-NAILED. B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
  C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 2\* O.C.
  UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
  CONNECT TO BASE TRUSS WITH (2) (0.131\* X 3.5") NAILS EACH.
  D 2 X \_ X 4-0" SCAB, SIZE TO MATCH TOP CHORD OF
  PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED.
  ON INTERSECTION, WITH (2) ROWS OF (0.131\* X 3") NAILS @ 4" O.C.
  SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
  IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
- IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FI. IN BOTH DIRECTIONS AND:

  1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

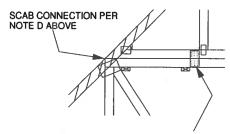
  2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

  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)

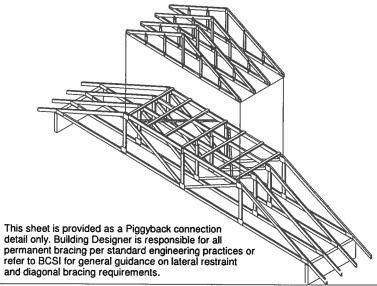


### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

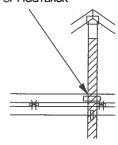
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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.



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- ATTACH 2 x \_\_\_ x 4-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
  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.
- GRIEATER THAN 4000 LBS.
  FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
  NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
  CONCENTRATED LOAD MUST BE APPLIED TO BOTH
  THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

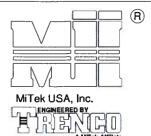
**MII-PIGGY-ALT** 7-10

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



A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0(0.131" X 3.5") TOE-NAILED.

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

D - 2 X \_\_ X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH

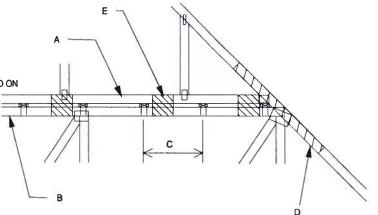
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

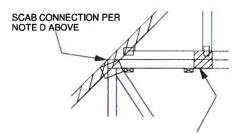
E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH

3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

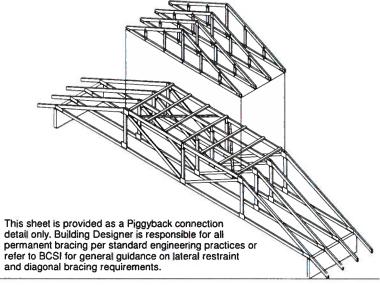


### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

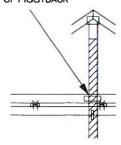
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



 $7^{\circ}$  x  $7^{\circ}$  x  $1/2^{\circ}$  PLYWOOD (or  $7/16^{\circ}$  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)



**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

VEHTICAL WEBS OF PIGGYBACK AND BASE THUSS
MUST MATCH IN SIZE, GRADE, AND MUST LINE UP
AS SHOWN IN DETAIL.
ATTACH 2 x x 4-0" SCAB TO EACH FACE OF
TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS
SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH
VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)

(MINIMUM 2X4)
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.
FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS.

NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS. CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.



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

January 19, 2018

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

### MII-REP01A1

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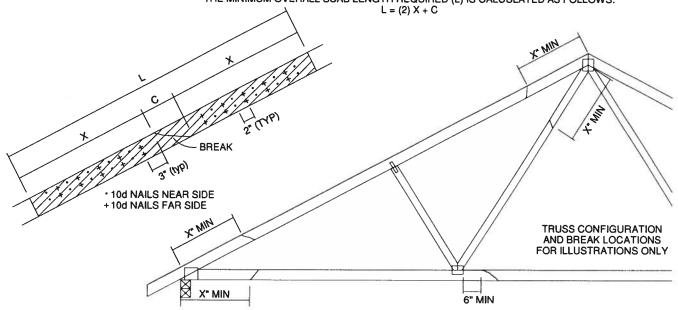


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *			MAXIMUM FORCE (lbs) 15% LOAD DURATION							
		X INCHES	SP		DF		SPF		HF	
2x4	2x6	W-11-2	2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

### \* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x\_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



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:

- NOTES:

  1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES
  NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS
  SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED
  REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.

  2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR
  AND HELD IN PLACE DURING APPLICATION OF REPAIR.

  3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID
  UNUSUAL SPLITTING OF THE WOOD.

  4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID
  LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.

  5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x\_ ORIENTATION ONLY.

  6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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

January 19, 2018

### LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

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(R)

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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

**NEAR SIDE NEAR SIDE** 

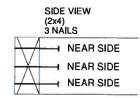
SIDE VIEW (2x3) 2 NAILS

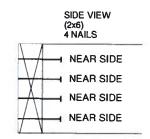
	DIAM.	SP	DF	HF	SPF	SPF-S
o l	.131	88.0	80.6	69.9	68.4	59.7
LONG	.135	93.5	85.6	74.2	72.6	63.4
3.5"	.162	108.8	99.6	86.4	84.5	73.8
CONG	.128	74.2	67.9	58.9	57.6	50.3
3	.131	75.9	69.5	60.3	59.0	51.1
3.25	.148	81.4	74.5	64.6	63.2	52.5

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

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

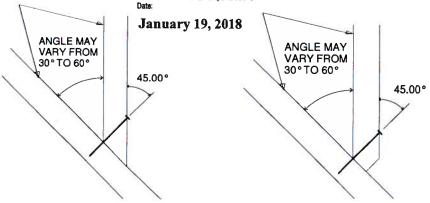
For load duration increase of 1.15: 3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

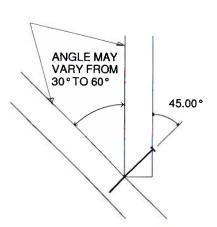






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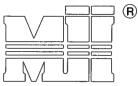


### TRUSSED VALLEY SET DETAIL

### MII-VALLEY HIGH WIND1

MiTek USA, Inc.

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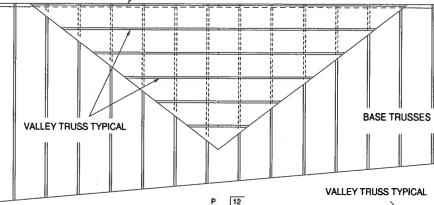


MiTek USA, Inc. ENGINEERE NY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

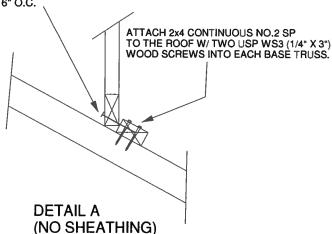
### **GENERAL SPECIFICATIONS**

- 1. NAIL SIZE 10d (0.131" X 3")
  2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
  DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING
- EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 6. NAILING DONE PER NDS 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS 12 OR GIRDER TRUSS SEE DETAIL A BELOW (TYP.)

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



N.T.S.

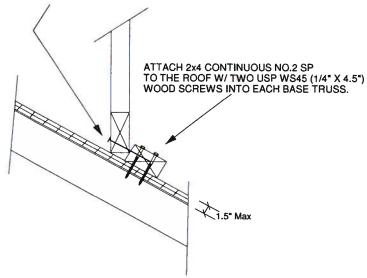
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 **CATEGORY II BUILDING EXPOSURE C** WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)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

No 39380

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

TRUSSED VALLEY SET DETAIL **AUGUST 1, 2016** MII-VALLEY HIGH WIND2 R MiTek USA, Inc. Page 1 of 1 **GENERAL SPECIFICATIONS** 1. NAIL SIZE 10d (0.131" X 3") 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES. MiTek USA, Inc. 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 GABLE END, COMMON TRUSS ENGMEERED BY OR GIRDER TRUSS K INDIVIDUAL DESIGN DRAWINGS. 6. NAILING DONE PER NDS-01 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C. **BASE TRUSSES VALLEY TRUSS TYPICAL** GABLE END, COMMON TRUSS OR GIRDER TRUSS VALLEY TRUSS TYPICAL P 12 SEE DETAIL A BELOW (TYP.) 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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MiTek USA, Inc.

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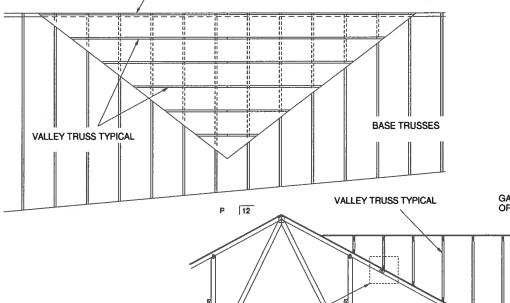
MiTek USA, Inc.

ENGINEERED N

GABLE END, COMMON TRUSS OR GIRDER TRUSS

### **GENERAL SPECIFICATIONS**

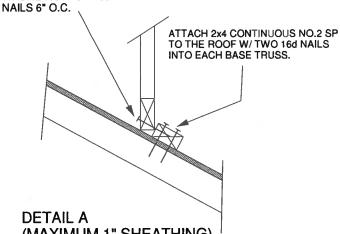
- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING
- EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



SEE DETAIL A BELOW (TYP.) GABLE END, COMMON TRUSS

OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 16d



(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



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

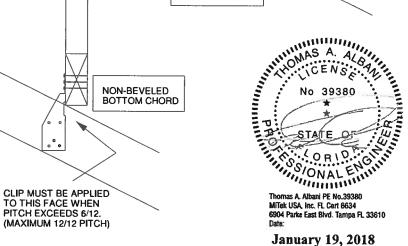
TRUSSED VALLEY SET DETAIL **MII-VALLEY AUGUST 1, 2016** (HIGH WIND VELOCITY) (R) NOTE: VALLEY STUD SPACING NOT Page 1 of 1 MiTek USA, Inc. TO EXCEED 48" O.C. SPACING MiTek USA, Inc. PRINCIPER BY FOR BEVELED BOTTOM CHORD, CLIP MAY BE APPLIED TO EITHER FACE **CLIP MAY BE APPLIED** TO THIS FACE UP TO A MAXIMUM 6/12 PITCH 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** NON-BEVELED **EXPOSURE B or C BOTTOM CHORD** WIND DURATION OF LOAD INCREASE: 1.6 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) WMAS A. ALON SUPPORTING TRUSSES DIRECTLY UNDER **VALLEY TRUSSES MUST BE DESIGNED** WITH A MAXIMUM UNBRACED LENGTH OF

### NOTES:

- SHEATHING APPLIED AFTER INSTALLATION OF VALLEY TRUSSES

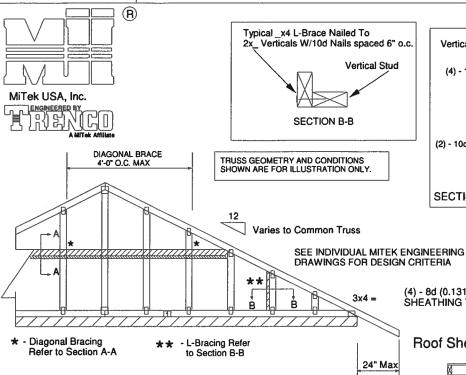
2'-10" ON AFFECTED TOP CHORDS.

- THIS DETAIL IS NOT APPLICABLE FOR SPF-S SPECIES LUMBER.

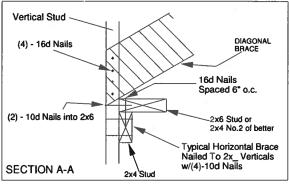


### Standard Gable End Detail

MII-GE146-001



Page 1 of 2 MiTek USA, Inc.



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

Roof Sheathing

### 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:

4. L'BRAGES 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)
  GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
  THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
  DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

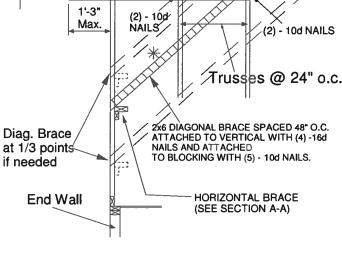
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade		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- <del>9-</del> 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.





6904 Parke East Blvd. Tampa FL 33610

January 19, 2018

**OCTOBER 5, 2016** 

### REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

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MiTek USA, Inc.

TRUSS CRITERIA:

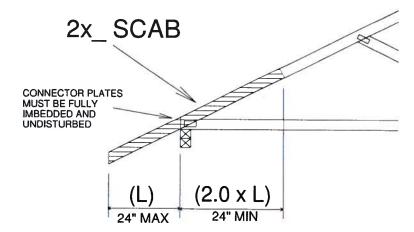
LOADING: 40-10-0-10 **DURATION FACTOR: 1.15** SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6

PITCH: 4/12 - 12/12
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 A VOID LOCKED THE CONNECTION OF THE STATE O

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



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

### LATERAL BRACING RECOMMENDATIONS

### MII-STRGBCK

MiTek USA, Inc.

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

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.

