Columbia County New Building Permit Application

For Office Use Only Application # 44284 Date Received 1 40 By MB Permit # 39292
Zoning Official Date 1/7/20 Flood Zone A Land Use A Zoning A-3
FEMA Map # Elevation MFE River Plans Examiner 1.C. Date 2-//-2.
Comments SFLP 2003
NOC EH Deed of PA Site Plan - State Road Info Well letter + 511 Sheet - Parent Parcel #
□ Dev Permit # □ In Floodway □ Letter of Auth. from Contractor □ F W Comp. letter Wowner Builder Disclosure Statement □ Land Owner Affidavit □ Ellisville Water □ App Fee Paid □ Sub VF Form
Septic Permit No. 19-0218 OR City Water Fax
Applicant (Who will sign/pickup the permit) Conic, Ratiff ^ Phone
Address
Owners Name Connie Rutliff Phone 380-365,2689
Owners Name Connie Ratliff Phone 380-365-2689 911 Address 489 NE Manatte PL Lake City Fz 32055
Contractors Name NHA Phone
Address
Contractor Email Feagle logging a yator. com ***Include to get updates on this job.
Fee Simple Owner Name & Address NA
Bonding Co. Name & AddressNA
Architect/Engineer Name & Address M. DISOSWay 163 SW Midtown Pl Lake City Fo
Mortgage Lenders Name & Address
Circle the correct power company FL Power & Light Clay Elec. Suwannee Valley Elec. Duke Energy
Property ID Number 04-35-17-04838-107 Estimated Construction Cost 70,000
Subdivision Name OSCEO A PlantationS Lot 7 Block Unit Phase
Driving Directions from a Major Road HWY 441 N to Cheschire Rd TR
Follow to Triple RVN TL Follow to Manake PL
TR Follow to site on 1
Construction of New Commercial OR Residential
Proposed Use/Occupancy SIF Number of Existing Dwellings on Property
Is the Building Fire Sprinkled? NO If Yes, blueprints included Or Explain
Circle Proposed Culvert Permit or Culvert Waiver or D.O.T. Permit or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 92' Side 34' Side 37' Rear 53'
Number of Stories Heated Floor Area 1419.6 Total Floor Area 1921.4 Acreage 1:20
Zoning Applications applied for (Site & Development Plan, Special Exception, 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.

encumbered by any restrictions or face possible litigation and or fines.
Print Owners Name **Property owners <u>must sign</u> here <u>before</u> any permit will be issued. Owners Signature
**If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.
CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations. Contractor's License Number
Contractor's Signature Columbia County Competency Card Number Affirmed under penalty of perjury to by the Contractor and subscribed before me this day of 20
Personally known or Produced Identification SEAL:
State of Florida Notary Signature (For the Contractor)

Inst. Number: 202012002813 Book: 1404 Page: 2646 Page 1 of 3 Date: 2/4/2020 Time: 3:51 PM P.DeWitt Cason Clerk of Courts, Columbia County, Florida Doc Mort: 0.00 Int Tax: 0.00 Doc Deed: 0.70

Prepared by and return to: Lake City Title 426 SW Commerce Drive, Ste. 145 Lake City, FL 32025

This deed was given without the benefit of a search or issuance of Title Insurance.

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

THIS WARRANTY DEED made this day of January, 2020 by Shelton Feagle, Jr. and Tocha C. Feagle, Husband and Wife, whose address is 805 NE Indigo Drive, Lake City, FL 32055, hereinafter called the Grantor, to Connie Ratliff, a Single Woman, hereinafter called the Grantee, whose address is 489 NE Manatee Pl, Lake City, Fl 32055, conveying the property herein described for a Life Estate, without any liability for waste, and with full power and authority in the life of the tenant to sell, convey, mortgage, lease or otherwise manage and dispose of the property described herein, in fee simple, with or without consideration, without joinder of the remainderman, and with full power and authority to retain any and all proceeds generated thereby, and upon the death of the life tenant, the remainder, if any, to Shelton Feagle, Jr. and Tocha C. Feagle, Husband and Wife, (Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations).

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

SEE EXHIBIT "A" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF

NOTE: The Grantor specifically reserves the right (i) to revoke the remainder interest hereunder and divest the remainderman and re-vest the life tenant with fee simple title without joinder of the remainderman, or (ii) to convey the remainder interest created hereunder to another remainderman; all without joinder of the remainderman established under this deed.

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

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

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

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

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

Witness Region Simplified

Witness Region Simplified

Shelton Feagle, Jr.

Tocha Feagle

STATE OF: FLORIDA

COUNTY OF: COLUMBIA

The foregoing instrument was acknowledged before me this ______ day of January, 2020 by Shelton Feagle, Jr. and Tocha C. Feagle, Husband and Wife, who personally appeared before me and is personally known to me or has produced _______ as identification and who did not take an oath.

Notary Public

Regine Simplins

Printed Notary Name

REGINA SIMPKINS
MY COMMISSION # GG059915
EXPIRES January 04, 2021

EXHIBIT "A"

A Parcel of land lying in Section 4, Township 3 South, Range 17 East, in Columbia County, Florida, also being a portion of Lot 7, Osceola Plantations, an unrecorded subdivision as surveyed by Mark Duren, LS 4708, being more particularly described as follows:

Begin at the Southwest Corner of Lot 7, Osceola Plantations, an unrecorded subdivision as surveyed by Mark Duren, LS 4708, and run N 00°09'01" E along the West line of said Lot 7, a distance of 240.68 feet; thence run N 76°12'53" E., a distance of 157.18 feet; thence run S 08°11'52" E, a distance of 353.28 feet to the South line of said Lot 7; thence run N 70°38'37" W along said South line of Lot 7, a distance of 215.86 feet to the Point of Beginning.

<u>ALONG WITH AND SUBJECT TO:</u> An Ingress/Egress easement as described and recorded in Official Records Book 829, Pages 1694-1723, of the Public Records of Columbia County, Florida.

FAMILY RELATIONSHIP AFFIDAVIT

STATE OF FLORIDA COUNTY OF COLUMBIA

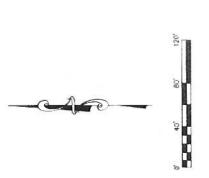
Inst: 202012003476 Date: 02/12/2020 Time: 2:09PM Page 1 of 2 B: 1405 P: 1198, P.DeWitt Cason, Clerk of Court Columbia, County, By: BS Deputy Clerk

BEFORE ME the undersigned Notary Public personally appeared, Shelfon and Tocha feasle, the Owner of the parent parcel which has been subdivided for Connie Teatliff, the Immediate Family Member of the Owner, and which is intended for the Immediate Family Members primary residence use. The Immediate Family Member is related to the Owner as Mother of Tocha. Both individuals being first duly sworn according to law, depose and say:

- 1. Affiant acknowledges Immediate Family Member is defined as parent, grandparent, step-parent, adopted parent, sibling, child, step-child, adopted child or grandchild.
- 2. Both the Owner and the Immediate Family Member have personal knowledge of all matters set forth in this Affidavit.
- 3. The Owner holds fee simple title to certain real property situated in Columbia County, and more particularly described by reference with the Columbia County Property Appraiser Parent Tract Tax Parcel No. 04-35-17-04839-107.
- 4. The Immediate Family Member holds fee simple title to certain real property divided from the Owners' parent parcel situated in Columbia County and more particularly described by reference to the Columbia County Property Appraiser Tax Parcel No. 04-35-17-04838-11
- 5. No person or entity other than the Owner and Immediate Family Member to whom permit is being issued, including persons residing with the family member claims or is presently entitled to the right of possession or is in possession of the property, and there are no tenancies, leases or other occupancies that affect the property.
- 6. This Affidavit is made for the specific purpose of inducing Columbia County to recognize a family division for an Immediate Family Member being in compliance with the density requirements of the Columbia County's Comprehensive Plan and Land Development Regulations (LDR's).
- 7. This Affidavit and Agreement is made and given by Affiants with full knowledge that the facts contained herein are accurate and complete, and with full knowledge that the penalties under Florida law for perjury include conviction of a felony of the third degree.

	We Hereby Certify that the facts represent and we accept the terms of the Agreement	ted by us in this Affidavit are true and correct and agree to comply with it.
×	goven zin	0
×	Torna Trajer	· Courie Ravig
	Owner	Immediate Family Member
	Shelton Feagle Tocha Feagle	Connie Ratliff
	Typed or Printed Name	Typed or Printed Name
()	As identification as identific	fore me this day of Canuay, 2020 is personally known to me or has produced ation. PAULA R. THOMAS Notary Public - State of Florida Commission # GG 206323 My Comm. Expires Apr 13, 2022 londed through National Notary Assn.
(Subscribed and sworn to (or affirmed) being the subscribed and sworn to (or affirmed) being the subscribed with the subscribed and sworn to (or affirmed) being the subscribed with the su	fore me this loth day of <u>January</u> , 20 <u>00</u> , ber) who is personally known to me or has entification.
	Notary Public	
	PAULA R. THOMAS Notary Public - State of Florida Commission # GG 206323 My Comm. Expires Apr 13, 2022 Bonded through National Notary Assn.	APPROVED: COLUMBIA COUNTY, FLORIDA By: Lia Williams Name: Liza Williams Title: Planning Technician





ADJACENT PROPERTY OWNER: FEAGLE
REMAINDER OF PARCELL D4-35-17-04838-107
PER CALUMER COLUMER APPRAISER
FOR A PART

BOUNDARY SURVEY IOWNSHIP 3 SOUTH, RANGE 17 EAST COLUMBIA COUNTY, FLORIDA

PSU 1509 0.674,0.371. OF FLNCE CORNER

PARCEL DESCRIPTION

A PARCEL OF ILAND LYING IN SECTION 4, TOWNSHIP 3 SOUTH, RANGE 17 GEAST, IN COLUMBIA COUNTY, ELDOBLA, ALSO BEING A PORTION OF LOT 7, OSCICA PLANITATIONS, A UNRECORDED SUBDIVISION AS SIRROY FEED BY MARR DUPRN, ILS 4708, BEING MORE PARTICULARLY DESCRIBED AS

BEGIN AT THE SOUTHWEST CORNER OF LOT 7, OSCEOLA PLANTATIONS, AND UNRECORDED SUBDIVISION AS SURYETED BY MARK DUREN, LS 4708, AND RUN N 0009'01" E ALONG THE WEST LINE OF SAID LOT 7, A DISTANCE OF 440.88 FEET; THENCE RUN N 7612.53" E, A DISTANCE OF 157.18 FEET. THENCE RUN N 7612.53" E, A DISTANCE OF 157.18 FEET. THENCE RUN N 7612.53" E, A DISTANCE OF 157.18 FEET. OF INFO SAID LOT 7, THENCE RUN N 7009.33" W ALONG SAID SOUTH LINE OF 17, A DISTANCE OF 215.88 FEET TO THE POINT OF BEGINNING.

ALONG WITH AND SUBJECT TO: AN INGRESS/FCREES EASEMENT AS EXCREED AND RECORDED IN OFFICIAL RECORDS BOOK 829, PAGES 1694—1723, OF: THE PUBLIC RECORDS OF COLUMBA COUNTY, FLORIDS.

\$ 05'11'52" E 353.28'(C

1.20 AC.1

WEST LINE D LOT 7, OSCELA' PI, ANTATIONS

ADJACENT PROPERTY CHARLE: IDENTITY PROTECTED PER COLUMBIA COUNTY PROPERTY APPRAISER "NOT A PART"

ADJACENT PROPERTY OWNER: FEACE.
FREMMEDER OF PARCELS OU-35-17-CM838-107PER COLUMBIA COUNTY PROPERTY APPRAISER.
"NOT A PART" R. 9925.455 SOUTH UNE OF A PARTIE OF A PAR See Charles and the see Ch

These standard symbols may be found in the drawing

LEGEND

BEARINGS ARE BASED ON SAID CURRENT RECORDED DEED DECSRIPTION AND SERFERENCES TO THE MONUMENTED SOUTH LINE OF DESCRIBED PARCEL, AS BEHR IN 70:38-37". W.

THERE SAY BE EASEMENTS AND OR RESTRICTIONS FOR THE DESCRIBED LAND IN THE PUBLIC RECURBS OF COLUMBIA COUNTY, PLORIDA, THAT ARE NOT SI OWN HEREDM.

FEBRUS HORIZONTAL CONTROL COORDINATES (ASSUMED)

FLORIDA DEPARTMENT OF TRANSPORTATION

DRIGGERS ONAL SURVEYOR AND MAPPER NO. 6509 JOHN C. DR

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

DRAWH, JOD | CHECKED BY: JOD | FIELD BOCK DOS JOHN C. DRIGGERS
PROFESSIONAL SURVEYOR AND MAPPER 3277 SOUTHWEST 36TH AVENUE JASPER, FLORIDA 32052 (380) 938-+258 DATE OF FIELD SURVEY: JANUARY 17, 2020

PROJECT NO 19-052

SCALE 1" = 40"

SURVEYOR'S NOTES:

THIS SUNYE'S BASED ON INSTRUCTOR FROM CLIENT, ON CURRENT DEED OF RECORD (CPRCIAL RECORDS BOOK 1364, PAGE 1117). ON ADJOHNAND CURRENT DEED SOF RECORDS ON EXISTING DEED (OFFICIAL RECORDS BOOK 1829, PARES 1694-1773) DESCRIBENT CLOTS AND INGRESSE/PRESS FASSMERT SASSMERT SO OSCIOLA PLANTATIONS, AN UNRECORDD SUBDIVISION, SURVEYED BY WARR DIRECH, LS. AND ON EXISTING MONUMENTATION FOUND IN PLACE AS SERVINE RECONT.

FOUND 3"X3" CONCRETE MONUMENT, NO ID

PRIOR SURVEY MEASUREMENT CALCIJLATED MEASUREMENT RIGHT OF WAY

CORNER ACRES

FENCE

FIELD MEASUREMENT

器 E • n * E C O S S + A

LIGHT POLE

OVERHEAD TELEPHONE POWER POLE SERVICE POLE

OVERHEAD ELECTRIC ELECTRIC METER WATER METER GAS METER

WELL

0

FOUND 5/8" REBAR & CAP, LS 4708 SET 5/8" REBAR & CAP PSM 6509

FOUND 5/8" REBAR & CAP, PSM 4093 PROFESSIONAL SURVEYOR AND MAPPER

SICENSED SURVEYOR

S

0 0

PROPERTY CONCRETE

IDENTIFICATION LICENSED BUSINESS

\$ 4 8 8 B

FOUND

MON. BEK.

HORIZONIAL CONTROL IS BASED ON AN ASSUMED DATUM.

IF THEY EXIST, NO UNDERGROUND ENCRCACHMENTS AND/OR UTILITIES WERE LIGGATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.

THE PURPOSES OF CLARITY FENCE LINES SHOWN MAY NOT BE TO SCALE.

THIS SUFVEY WAS REQUESTED BY SHELTON FEAGLE.

SUBCONTRACTOR VERIFICATION

APPLICATION/PER	MIT # JOB NAME							
	THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED							
Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.								
the Columbia (be the responsibility of the general contractor to make sure that all of the subcontractors are licent County Building Department. Coconfirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx/	nsed with						
	hould change prior to completion of the project, it is your responsibility to have a corrected form our office, before that work has begun.	ı						
Violations will	result in stop work orders and/or fines.							
ELECTRICAL	Print NameSignature	Need Lic Liab						
	Company Name:	□ w/c						
MECHANICAL/	License #: Phone #: Print Name Signature	□ DE <u>Need</u>						
A/C	Company Name:	□ Lic □ Liab □ W/C						
CC#	License #: Phope #:	□ EX						
PLUMBING/	Print Name	<u>Need</u> □ Lic						
GAS	Company Name:	□ Liab □ W/C						
CC#	License #: Phone #:	□ EX □ DE						
ROOFING	Print Name Signature	Need Lic						
 cc#	Company Name: License #: Phone #:	□ Liab □ W/C □ EX						
SHEET METAL	Print Name Signature	□ DE Need						
	Company Name:	☐ Lic ☐ Liab ☐ W/C						
CC#	License #:Phone #:	□ EX □ DE						
FIRE SYSTEM/	Print NameSignature_	<u>Need</u> □ Lic						
SPRINKLER	Company Name:	□ Liab □ W/C						
CC#	License#: Phone #:	□ EX □ DE						
SOLAR	Print NameSignature	Need Lic						
	Company Name:	□ Liab □ W/C □ EX						
CC#	License #: Phone #:	□ DE Need						
STATE	Print NameSignature	□ Lic						
SPECIALTY	Company Name:	□ W/C						
CC#	License #:Phone #:	□ DE						

NOTICE OF COMMENCEMENT

Clerk's Office Stamp

Tax Parcel Identification Number:

4804-35-17-NUS28-107

Inst: 202012000620 Date: 01/08/2020 Time: 4:00PM Page 1 of 1 B: 1402 P: 2397, P.DeWitt Cason, Clerk of Court Columbia, County, By: PT

Deputy Clerk

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

of the Postor Sandres, the Postoring another is provided in this notice of Commencement.
1. Description of property (legal description): 489 NE Manager Pl Lake City Ft 32065 a) Street (Job) Address: 489 NE Manager PL
2. General description of improvements: New Construction
3. Owner Information or Lessee information if the Lessee contracted for the improvements: a) Name and address: OK ITAN LOGIC ON THE PARTY OF THE P
c) Interest in property 4. Contractor Information
a) Name and address: NA b) Telephone No.:
5. Surety Information (if applicable, a copy of the payment bond is attached): a) Name and address:
b) Amount of Bond:
c) Telephone No.:
6. Lender
a) Name and address: NA A
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section
713 13/11/a\7 Florida Statutes
a) Name and address: NA
b) Telephone No.:
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in
Section 713.13(I)(b), Florida Statutes:
a) Name:OF
b) Telephone No.:
9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified):
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.
STATE OF FLORIDA
COUNTY OF COLUMBIA 10. MWY2 m
Signature of Owner or Lessee, or Owner's or Lessee' Authorized Office/Director/Partner/Manager
Shelton Feagle Dwner Printed Name and Signatory's Title/Office
rimed Name and Signatory 5 Title/Office
The foregoing instrument was acknowledged before me, a Florida Notary, this 8th day of grand 20 20 by:
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)
Personally Known OR Produced Identification Type
Notary Signature PAULA R. THOMAS Notary Starte of Florida Commission = 6 206123 My Comm. Expires Apr 13, 2022 Bonded through National Notary Assn.

SITE PLAN CHECKLIST 1) Property Dimensions 2) Footprint of proposed and existing structures (including decks), label these with existing addresses _3) Distance from structures to all property lines 4) Location and size of easements 5) Driveway path and distance at the entrance to the nearest property line 6) Location and distance from any waters; sink holes; wetlands; and etc. 7) Show slopes and or drainage paths 8) Arrow showing North direction SITE PLAN EXAMPLE Revised 7/1/15 **Show Your Road Name** aros Koar Zago . . 110 (My Property) Bam M/H (201) 205 NOTE: reek This site plan can 410 be copied and used 325 470 with the 911 Addressing Dept. 498 60 application forms. North lacre 1 acre of 21.21 acres Wetland 53' 34' 37 22×14 carpot 50×28 210 New Diversay 1210 92'

manatee Place

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



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued:

4/18/2019 12:48:44 PM

Address:

489 NE MANATEE PI

City:

LAKE CITY

State:

FL

Zip Code

32055

Parcel ID

04838-107

REMARKS: Address for proposed structure on parcel.

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

Address Issued By:

Signed:/ Matt Crews

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT

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

2020 Working Values updated: 11/27/2019

Columbia County Property Appraiser

Jeff Hampton

Site

Parcel: << 04-3S-17-04838-107 >>

Owner & Property Info FEAGLE SHELTON JR Owner 805 NE INDIGO DR

LAKE CITY, FL 32055 489 MANATEE PL, LAKE CITY

COMM NE COR OF E1/2, RUN S 1538.94 FT, W 444.14 FT, FOR POB, CONT S 1082.89 FT, SW 625.24 FT, NW 215.78 FT, N 1196.67 FT, E 753.13 FT TO POB (AKA LOT 7 OSCEOLA PLANTATIONS UNR). 830-482, 913-2231, WD 1364-1116, Description*

Result: 1 of 1

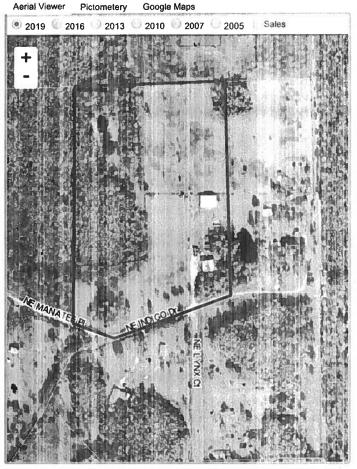
04-3S-17E S/T/R Area 21.21 AC 3 Use Code** TIMBERLAND (005500) Tax District

*The Description above is not to be used as the Legal Description for this parcel in any legal

transaction.

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

Property & Asse	ssment Values			
2019 Certi	fied Values	2020 Working Values		
Mkt Land (1)	\$1,126	Mkt Land (1)	\$1,126	
Ag Land (1)	\$6,433	Ag Land (1)	\$6,433	
Building (0)	\$0	Building (0)	\$0	
XFOB (0)	\$0	XFOB (0)	\$0	
Just	\$45,307	Just	\$45,307	
Class	\$7,559	Class	\$7,559	
Appraised	\$7,559	Appraised	\$7,559	
SOH Cap [?]	\$0	SOH Cap [?]	\$0	
Assessed	\$7,559	Assessed	\$7,559	
Exempt	\$0	Exempt	\$0	
Total Taxable	county:\$7,559 city:\$7,559 other:\$7,559 school:\$7,559		county:\$7,559 city:\$7,559 other:\$7,559 school:\$7,559	



Sales History						
Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
7/12/2018	\$100	1364/1116	WD	V	U	11
8/18/2000	\$17,600	913/2231	QC	V	U	01
10/25/1996	\$20,900	830/0482	WD	V	Q	

Building Character	ristics					
Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
			NONE		·	

▼ Extra Features & Out Buildings (Codes)									
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)			
				NONE					

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
005500	TIMBER 2 (AG)	16.710 AC	1.00/1.00 1.00/1.00	\$385	\$6,433
009630	SWAMP (MKT)	4.500 AC	1.00/1.00 1.00/1.00	\$250	\$1,126
009910	MKT.VAL.AG (MKT)	16.710 AC	1.00/1.00 1.00/1.00	\$0	\$44,181

Search Result: 1 of 1

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

by: GrizzlyLagic.com

Legend

LidarElevations

Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Jan 07 2020 08:41:10 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 04-3S-17-04838-107 Owner: FEAGLE SHELTON JR

Subdivision: OSCEOLA PLANTATIONS UNR

Lot: 7

Acres: 21.2667427 Deed Acres: 21.21 Ac

District: District 1 Ronald Williams Future Land Uses: Agriculture - 3

Flood Zones: A

Official Zoning Atlas: A-3

Parcels

2018Aerials

Roads

Roads

others Dirt

Interstate

Main 🗬

Other

Paved

Private

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



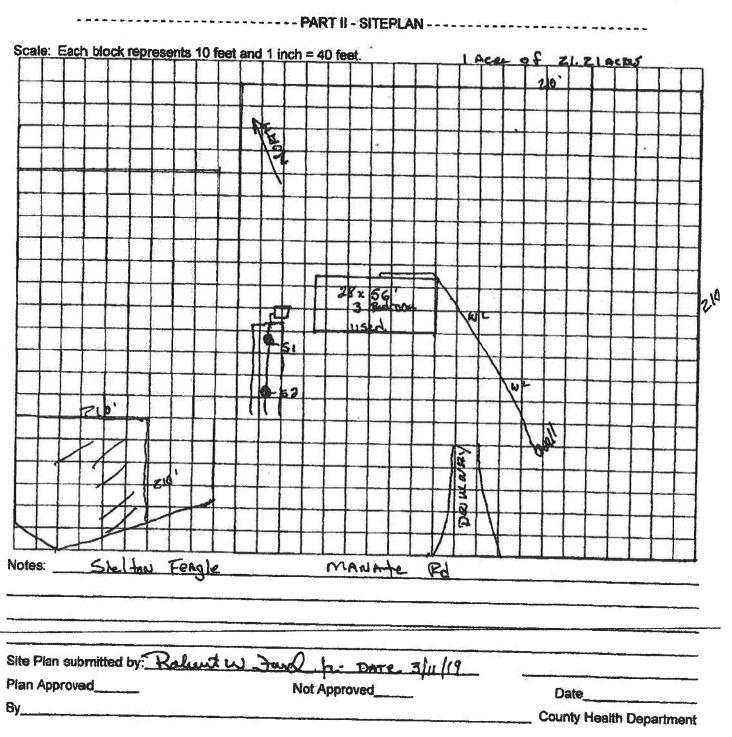
STATE OF FLORIDA DEPARTMENT OF HEALTH ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT NO .	19-0218
DATE PAID:	3/18/19
FEE PAID:	310.00
RECEIPT # :	LEASTAG
	KOTOV

APPLICATION FOR CONSTRUCTION PERMIT	RECEIPT #: 1405745
APPLICATION FOR: [] New System [] Existing System [] Holding Tank [] Repair [] About [] Holding Tank	0.07
APPLICANT: 6helton Feagle Ur	[]
	366 LEPHONE: 755-6372
MAILING ADDRESS: 741 SE STATE Rd 100 LC FL	F 32025
TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEM A PERSON LICENSED PURSUANT TO 489.105(3) (m) OR 489.552, FLORIDA APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDER.	E LOT WAS CREATED OR
DECEMBLANCE SUBDIVISION: MEET	
PROPERTY ID #: 04-35-17-04838-100 ZONING: 6 F I/M C	OR EQUIVALENT: { Y / [6]
PROPERTY SIZE: 21,21 ACRES WATER SUPPLY: (1) PRIVATE PUBLIC []<=2000GPD []>2000GPD
	INCE TO SEWER: NA FT
PROPERTY ADDRESS: 520 MANATER PLACE LOKE	City Fl
DIRECTIONS TO PROPERTY: Hwy 441 Hoath to Chesch	sind Rd Tr
Follow to Triple RUN TH Follow to m	Muatee TR
Follow to site on left	
BUILDING INFORMATION [\ RESIDENTIAL [] COMMERC	IAL
Sections Area Sqrt Table 1, Chapte	itutional System Design r 64E-6, FAC
2 Single family 3 1568 used	
3	7
4	
[] Floor/Equipment Drains [] Other (Specify)	
SIGNATURE: Robert W Jord A	DATE: 3/11/10
DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated 64E-6.001, FAC	741/1-1-

STATE OF FLORIDA DEPARTMENT OF HEALTH APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 19-02/5



ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

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

Page 2 of 4

*CORRECTED ONE



STATE OF FLORIDA DEPARTMENT OF HEALTH ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT NO. DATE PAID:	19-	02	18
		1.4	14
FEE PAID:	31	1	44
	-		
RECEIPT #:	14	A 4 C	
	171		4
		21	

Page 1 of 4

APPLICATION FOR CONSTRUCTION PERMIT	RECEIPT #:
APPLICATION FOR:	1403745
[] New System	3.02
L Abandonmont	[] Innovative
APPLICANT: Shelton Fearly	[]
AGENT: Robert W Ford JR NFST THC. TELL MAILING ADDRESS: 741 SE STATE OF THE	386
MAILING ADDRESS: 741 SE	LEPHONE: 155-6372
STAR ACG TOO LC FI	4 32025
TO BE COMPLETED TO	
BY A PERSON LICENSED PURSUANT TO 489.105(3) (m) OR 489.552, FLORIDA PLATTED (MM/DD/YY) IF PEOULOGIANT TO PROVIDE DOCUMENTATION OF THE DATE THE	EMS MUST BE CONSTRUCTED
PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY CRANNE	STATUTES. IT IS THE LOT WAS CREATED OR
PROPERTY INFORMATION	THER PROVISIONS.
LOT: AKA LOT & OSCEOLA PLANTATION DECENTION NO SCHOOL PLANTATION	.)
	PLATTED: 1000
PROPERTY ID #: 04-35-17-10020 18/2	
PROPERTY SIZE: 21.21, ACPES FIRMER	EQUIVALENT: [Y / 👩
PROPERTY SIZE: 21.2 ACRES WATER SUPPLY: [1] PRIVATE PUBLIC [] IS SEWER AVAILABLE AS PER 381.0065 FS2 [V /]	<=2000GPD []>2000GPD
IS SEWER AVAILABLE AS DEB 381.0065, FS? [Y/M] DISTANCE	E TO SEWER: NA FT
PROPERTY ADDRESS: 520 MANATER PLACE	A FT
DIRECTIONS TO PROPERTY:	IIMFI
FOLLOW to TRIOLS PULL TO Cheschi	Red Tr
Follow to Teiple RVN TL Follow to me Follow to site on left	WATER TR
BUILDING INFORMATION	
Unit Type of [RESIDENTIAL [] COMMERCIAL	
No Establishment No. of Building Companying	tional System Design
	4E-6, FAC
2 Orrelle tamily 3 1568 - 4501	Minor
3	
4	
[] Floor/Equipment Drains [] Other (Specify)	
SIGNATURE: Robert W Jord h	
DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated 64E-6.001, FAC	E: 311119
ode-o.uul, FAC may not be used)	

STATE OF FLORIDA DEPARTMENT OF HEALTH APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 19-03 ------PART II - SITEPLAN -----Scale: Each block represents 10 feet and 1 inch = 40 feet. 28 x 56 W Shelton Feagle Notes: MANATE Site Plan submitted by: Robert W Jand 1- DATE 3/11/19 Plan Approved Not Approved County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

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



Hall's Pump and Well Services, Inc.

904 NW Main Blvd. Lake City, FL 32055

hallspumpandwell@bellsouth.net

Contractor #

1/7/2020

1503 Submitted By

Benjamin D. Dicks

Parcel ID 04-3S-17-04838-107

Well Letter of Compliance

Property Owners: Shelton Feagle

Columbia County

Drop pipe size, 1-1/4" inch

4 Inch black steel well casing, 235mm wall thickness

Tank sized, PC 244, 81 gallon, will supply a 23.9 gal. draw down

at 40/60 pressure setting.

All wells will have a pump and tank combination that will be sufficient for 1 minute of runtime

If you have any questions please call our office @ 386-752-1854

Pump size 1.0 hp, 230 volt, single ph, pump and motor of 4° in glameter

Benjamin Dicks,

Office Coordinator,

Hall's Pump and Well Services, Inc.

904 NW Main Blvd.

Lake City, FL 32055

(P): (386)752-1854

Thanks,

Last Update: 1/16/2020 9:41:03 AM EST

Register for eBill

Ad Valorem Taxes and Non-Ad Valorem Assessments

The information contained herein does not constitute a title search and should not be relied on as such.

Account Number	Тах Туре	Tax Year
R04838-107	REAL ESTATE	2019
Mailing Address	Property Address	
FEAGLE SHELTON JR	489 MANATEE NE LAKE	CITY
805 NE INDIGO DR		
LAKE CITY FL 32055	GEO Number	
	043S17-04838-107	
	r	
Exempt Amount	Taxable Value	_
See Below	See Below	

Exemption Detail

Millage Code

Escrow Code

NO EXEMPTIONS

003

Legal Description (click for full description)

04-3S-17 5500/550021.21 Acres COMM NE COR OF E1/2, RUN S 1538.94 FT, W 444.14 FT, FOR POB, CONT S 1082.89 FT, SW 625.24 FT, NW 215.78 FT, N 1196.67 FT, E 753.13 FT TO POB (AKA LOT 7 OSCEOLA PLANTATIONS UNR). 830-482, 913-2231, WD 1364-1116,

Ad Valorem Taxes					
Taxing Authority	Rate	Assessed Value	Exemption Amount	Taxable Value	Taxes Levied
BOARD OF COUNTY COMMISSIONERS	8.0150	7,559	0	\$7,559	\$60.59
COLUMBIA COUNTY SCHOOL BOARD					
DISCRETIONARY	0.7480	7,559	0	\$7,559	\$5.65
LOCAL	3.9880	7,559	0	\$7,559	\$30.15
CAPITAL OUTLAY	1.5000	7,559	0	\$7,559	\$11.34
SUWANNEE RIVER WATER MGT DIST	0.3840	7,559	0	\$7,559	\$2.90
LAKE SHORE HOSPITAL AUTHORITY	0.9620	7,559	0	\$7,559	\$7.27
Total Millage	15.5970	Te	tal Taxes		\$117.90

	Non-Ad Valorem Ass	essments
Code	Levying Authority	Amount
RETR	FIDE ASSESSMENTS	\$0.00

Total Assess	ments \$0.00
Taxes & Assess	ments \$117.90

If Paid By	Amount Due
	\$0.00

Date Paid	Transaction	Receipt	Item	Amount Paid
11/19/2019	PAYMENT	9920660.0003	2019	\$113.18

Prior Years Payment History

Prior Year Taxes Due]
NO DELINQUENT TAXES	



COLUMBIA COUNTY BUILDING DEPARTMENT

135 NE Hernando Ave., Suite 8-21 Lake City, FL 32055

Office: 386-758-1008 Fax: 386-758-2160

OWNER BUILDER DISCLOSURE STATEMENT

Florida Statutes Chapter 489.103:

- 1. I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.
- 2. I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.
- 3. I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on permits and contracts.
- 4. I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease, unless I am completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.
- 5. I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.
- 6. I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

Revision Date: 8/15/2019

- 7. I understand that it is a frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.
- 8. I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.
- 9. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.
- 10. I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or http://www.myfloridalicense.com/ for more information about licensed contractors.
- 11. I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

489 NE Manatee Pl Lake City fe 32055

(Write in the address of jobsite property)

12. I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

Florida Statutes Chapter 489.503:

State law requires electrical contracting to be done by licensed electrical contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own electrical contractor even though you do not have a license. You may install electrical wiring for a farm outbuilding or a single-family or duplex residence. You may install electrical wiring in a commercial building the aggregate construction costs of which are under \$75,000. The home or building must be for your own use and occupancy. It may not be built for sale or lease, unless you are completing the requirements of a building permit where the contractor listed on the permit substantially completed the project. If you sell or lease more than one building you have wired yourself within 1 year after the construction is complete, the law will presume that you built it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person as your electrical contractor. Your construction shall be done according to building codes and zoning regulations. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances.

An owner of property completing the requirements of a building permit, where the contractor listed on the permit substantially completed the project as determined by the local permitting agency, for a one-family or two family residence, townhome, accessory structure of a one-family or two-family residence or townhome or individual residential condominium unit or cooperative unit. Prior to the owner qualifying for the exemption, the owner must receive approval from the local permitting agency, and the local permitting agency must determine that the contractor substantially completed the project. An owner who qualifies for the exemption under this paragraph is not required to occupy the dwelling or unit for at least 1 year after the completion of the project.

Revision Date: 8/15/2019 Page 3 of 4

Before a building permit shall be issued, this notarized disclosure statement must be completed and signed by the property owner and returned to the local permitting agency responsible for issuing the permit.

TYPE OF CONSTRUCTION Single Family Dwelling () Two-Family Residence	() Farm Outbuildina
() Addition, Alteration, Modification or other Improve	
() Other	
() Contractor substantially completed project, of a	
() Commercial, Cost of Constructionfo	r construction of
(Print Property Owners Name) statement for exemption from contractor licensing as a all requirements provided for in Florida Statutes allowing permitted by Columbia County Building Permit.	_ · ·
Signature: Concil Rolling (Signature of property owner)	Date: Z // Z / Z o Z O
NOTARY OF OWNER BUILDER SIGNATURE The above signer is personally known to me or produce	ed identification <u>Fixe</u>
Notary SignatureD	ate <u>Z/12/2020</u> (Seal)
	LAURIE HODSON MY COMMISSION # FF 978102 EXPIRES: July 14, 2020



COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2017 EFFECTIVE 1 JANUARY 2018

AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

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

	Website: http://www.columbiacountyfla.col GENERAL REQUIREMENT APPLICANT - PLEASE CHECK ALL APPLICABLE	rs:		Each (s to Inclu Box shal Circled as pplicable	ll be
_	T. (2)	And the state of t	Sele	ct Fr	om Drop	down
1	Two (2) complete sets of plans containing the following:					
2	All drawings must be clear, concise, drawn to scale, details the	hat are not used shall be marked void	V			100
3	Condition space (Sq. Ft.) 1419 Total (Sq. Ft.) under roof 1921	Y	es	No	NA.

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL 107.1.

Site Plan information including:

4	Dimensions of lot or parcel of land	Yes	
5	Dimensions of all building set backs	Yes	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	Yes	
7	Provide a full legal description of property.	Yes	

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA
		Select Fr	om Drop	down
9	Basic wind speed (3-second gust), miles per hour	Yes		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	Yes		
11	Wind importance factor and nature of occupancy	Yes		-81
12	The applicable internal pressure coefficient, Components and Cladding	Yes		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	Yes		
Ele	evations Drawing including:	1		
14	All side views of the structure	Yes		
15	Roofpitch	Yes		
16	Overhang dimensions and detail with attic ventilation	Yes		
17	Location, size and height above roof of chimneys	NA	i de li de con l	
18	Location and size of skylights with Florida Product Approval	NA		
19	Number of stories	Yes		
20	Building height from the established grade to the roofs highest peak	Yes	S II	2

Floor Plan Including:

	11001 11 an including.		
21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	Yes	
22	Raised floor surfaces located more than 30 inches above the floor or grade	NA	
23	All exterior and interior shear walls indicated	NA	
24	Shear wall opening shown (Windows, Doors and Garage doors)	NA	
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	Yes	
26	Safety glazing of glass where needed	NA	
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	NA	
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	NA	
29	Identify accessibility of bathroom (see FBCR SECTION 320)	Yes	

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

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

FBCR 403: Foundation Plans

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

FBCR 506: CONCRETE SLAB ON GRADE

35 Show Vapor retarder (6mil. Polyethylene with 'pints la ph 6 inches and sealed)	Yes	
36 Show control j oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Sports	Yes	

FBCR 318: PROTECTION AGAINST TERMITES

	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or	====	
37	Submit other approved termite protection methods. Protection shall be provided by registered	Yes	
	termiticides	8 5 1	

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

		TO THE STATE OF TH				
L	38 S	how all materials making up walls, wall height, and Block size, mortar type	NA	10 11 2	2 - 1 - 1	١
	39 S	how all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	No			ľ

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

ROOF ASSEMBLIES FRC Chapter 9

72	Include all materials which will make up the roof assembles covering	Yes	, <u>1</u> 22 , r	272,003	1
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	Yes		a 0	

FBCR Chapter 11 Energy Efficiency Code for Residential Building

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

	GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Each Box Circle	shall be ed as cable
	s	elect from D	rop Dow
74	Show the insulation R value for the following areas of the structure	Yes	
75	Attic space	Yes	
76	Exterior wall cavity	Yes	
77	Crawl space	NA	
H	VAC information		
78	Submit two copies of a Manual J sizing equipment or equivalent computation study	Yes	
79	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or	Yes	
	20 cfm continuous required	res	
80	Show clothes dryer route and total run of exhaust duct	Yes	
Plo	umbing Fixture layout shown		
	All fixtures waste water lines shall be shown on the foundation lan	Yes	
82		Yes	
Pr	ivate Potable Water		
-	Pump motor horse power	ALS NIP	
	Reservoir pressure tank gallon capacity	YEC NIA	
	Rating of cycle stop valve if used	YAS NIW	Anna Balasa
Ek	ectrical layout shown including		
86	,	Yes	10 10
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected		
	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	Yes	100
88	Show the location of smoke detectors & Carbon monoxide detectors	Yes	, = l.,
89	Show service panel, sub-panel, location(s) and total ampere ratings	Yes	ili da la send
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance	Yes	
91 92	For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3 Appliances and HVAC equipment and disconnects Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	Yes Yes	

Notice Of Commencement:

is required.

103

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.

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

ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT. Select from Drop down Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. Yes There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed. Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office Yes (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com 95 Environmental Health Permit or Sewer Tap Approval A copy of a approved Yes Columbia County Environmental Health (386) 758-1058 96 City of Lake City A City Water and/or Sewer letter. Call 386-752-2031 NA 97 Toilet facilities shall be provided for all construction sites Yes 98 Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the NA Town of Fort is required to be submitted with the application for a building permit. 99 Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood Yes elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municode.com) CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Yes Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required. A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00 NA Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. Yes If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit

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

911 Address: An application for a 911 address must be applied for and received through the Columbia

County Emergency Management Office of 911 Addressing Department (386) 758-1125.

Yes

FLORIDA PRODUCT APPROVALS 10-16-15

Itam:	Robic Valley Manufacturer	- Product Description:	FL-13137 Approval Number:	
Item:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7	
exterior Doors:	Masonite	Inswing & Outswing Steel	FL-4904-R7 W/6/45 22521	ر س ا
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1	SF. b
	Plastpro 📦	Inswing & Outswing Steel	FL-15962-R2	SF. b
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3 SH flush blued insu	1347
12		68 Fip- 6/121d los	FL-17347 11-17	•
 Windows:	MI	Aluiminum 185 Single Hung	FL-17499	
	is it	Aluiminum 185 Picture Window	FL-15349	7.
T 1011 61	\$ 53"X50	Vinyl 3540 Single Hung	FL-13349-2 FL-17676-R+ R6	11.17
110K3> (C	00/ 1/200	Vinyl 3500 Picture Window	FL-18644	
e files	Ata so	150 160	FL-11834	
	Atoum Magnolia	Vinyl 400 Single Hung	FL-16475-R3	
	T. Tagiron	Vinyl 400 Picture Window	FL-16474-R2	
5-16	63" X 145"	400 Har Slider	FL 104761]
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503	
		Vinyl Siding	FL-15867-R1	
. 00	LITHW/HOW	il International Bola Code	ESR3774]
Underlayment:	Woodland	30# Felt	FL-17206-R3	
*	Interwrat	Rhino .	FL-15216	
Roofing:	Certainteed	Asphalt Shingles	FL-5444	
	GAF	Asphalt Shingles	FL-10124-R16 R20	1147
6	Tamko	Asphalt Shingles	FL-18355	11
	20 3 turkled Allura of Plycem	Cement board lap siding	FL-1670911 FL-17482-R2	
Siding:	James Hardie	Cement board lap siding	FL-13192-R4	┥,
C:	James Hardle	LSTA – MSTA, SPH4	FL-13872-R2	
Simpson	GAF	Tiger Paw Underlayment	FL-15487-R5	
Metal Roofing	UAI	5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3	99
	Hirtip	Canplane	13192.1	<i>-</i> :
	Hudie	Canplane	19192.1	

1-7-16



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)
Red	quired 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: Norris-Ratliff Street: 489 NE Manatee PL City, State, Zip: Lake City , FL , 32055 Owner: Connie Ratliff Design Location: FL, Gainesville	Builder Name: John Norris Construction 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) Conditioned floor area below grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(150.0 sqft.) Bescription Area a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.21 b. U-Factor: N/A SHGC: C. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 0.210 8. Floor Types (1420.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A R= ft² R= ft² R= ft²	9. Wall Types (1248.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A R= ft² c. N/A d. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (1420.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A R= ft² c. N/A R= ft² lnsulation R=38.0 R=38.0 R=38.0 R=38.0 R=38.0 R=38.0 R= R= R² R= ft² R= ft² R= ft² R= ft² R= ft² A. Sup: Attic, Ret: Attic, AH: Main R= ft² A. Sup: Attic, Ret: Attic, AH: Main R= ft² A. Sup: Attic, Ret: Attic, AH: Main R= R= R² A. Sup: Attic, Ret: Attic, AH: Main REfficiency A. Central Unit A. Cap: 40 gallons EF: 0.950 D. Conservation features None A. Central Cap: 40 gallons EF: 0.950 CF, CV
Glass/Floor Area: 0.106 Total Proposed Modified Total Baseline	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT:	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.

- 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).

DATE: -

DATE: _

					PROJE	СТ									
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Norris-Ratliff User Connie Ratliff 1 John Norris Co		: : :	Bedrooms Conditione Total Stori Worst Cas Rotate And Cross Ven Whole Hou	ed Area: es: ee: gle: tilation:	2 1420 1 No 0 Yes			Lot # Bloc Plati Stre Cou	k/Subdiv Book: et:	ision:	Street Ad 489 NE I Columbia Lake City FL , 3	Manate a	e PL	
					CLIMA	TE									•
	ign Location		/ Site		97.		2.5 %	Winte	sign Tem r Sumn	ner Deg	leating ree Da	ys Mois	sture	aily T Ran	ge
FL,	Gainesville	FL_GAINES	VILLE_RE	:GI		2	92	70	75	1	305.5	5	1	Med	lium
		H	·		BLOCK	(S			<u> </u>						
Number	Name	Ar	ea	Volume				· · · · ·							
1	Block1	1	420	11360											
					SPACE	S									
Number	Name	Area	Vo	lume i	Kitchen	Occupa	ints	Bedroor	ns I	nfil ID	Finishe	ed C	ooled	Н	leate
1	Main	1420	113	360	Yes	1		2		l 	Yes	Y	'es	Y	'es
					FLOOF	RS						_			
	Floor Type		Space	Perin	neter	R-Value		Area				Tile	Wood	Carp	et
1 Sial	o-On-Grade Edge	Insulatio	Main	156	ft	0		1420 ft²	P			0.25	0.5	0.25	5
					ROOF	•									
√ #	Туре	Materi	als	Roof Area	Gable Area		Roof	Rad Barr	Solar Absor.	SA Tested	Emitt	Emi Teste			Pitch (deg)
1	Gable or shed	Composition	shingles	1538 ft²	296 ft²	Li —-	ight	N	0.8	No	0.9	No	()	22.6
					ATTIC	;						66.5			
/ #	Туре		Ventilation		Vent Ratio	(1 in)		Area	RBS	IR	cc				
1	Full attic		Vented		300		14	420 ft²	N	P	١				
					CEILIN	G									
/ #	Ceiling Type		s	pace	R-Value	1	ins Typ	e A	\rea	Fram	ning Fra	c Tru	ss Typ	e	
1	Under Attic (Ve	inted)		/lain	38		Blown	•	420 ft²		<u></u> 0.11		Vood		

ORM	R405-	201	7		INPUT S	SUMMA	RY CHE	CKL	ST R	EPORT	11			_	
							W	ALLS							
V #	# Orn	t	Adjace To	ent Wall	Туре	Spac	Cavity e R-Value	Wic	th _In	Height Ft In	Area_	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade ^c
1	N	1	Exterior	Fra	me - Wood	Main	13	50		8	400.0 ft ²	1	0.23	0.75	0
2	: E	1	Exterior	Fra	me - Wood	Main	13	28		8	224.0 ft ²	1	0.23	0.75	0
3	S	- 1	Exterior	Fra	me - Wood	Main	13	34		8	272.0 ft ²	1	0.23	0.75	0
4	s	ı	Exterior	Fra	me - Wood	Main	13	16		8	128.0 ft ²	1	0.23	0.75	0
5	i W	' 1	Exterior	Fra	me - Wood	Main	13	28		8	224.0 ft ²	1	0.23	0.75	0
							DC	ORS							
\checkmark	#		Om	t	Door Type	Space			Storms	U-Valu	ie F	Width t In	Height Ft	t In	Area
	_ 1		N		Insulated	Main			None	.46	3	3	6	8	20 ft²
	_ 2		s		Insulated	Main			None	.46	3	3	6	8	20 ft²
					Ori	ientation sh	WIN own is the e	DOWS		orientation	1		,		
/			Wall						100000		· ·	rhang			
	#	Orn	ID.	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Depth	Separation	Int Sha	ade	Screeni
	. 1	N	1	Metal	Double (Tinted)	Yes	0.33	0.21	N	9.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/b	olinds	None
	. 2	N	1	Metal	Double (Tinted)	Yes	0.33	0.21	N	15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/b	olinds	None
	. 3	E	2	Metal	Double (Tinted)	Yes	0.33	0.21	N	45.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/b	olinds	None
	- 4	S	3	Metal	Double (Tinted)	Yes	0.33	0.21	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/b		None
	. 5	S	4	Metal	Double (Tinted)	Yes	0.33	0.21	N	15.0 ft²	1 ft 6 in	10 ft 0 in	Drapes/b		None
	. 6	W	5	Metal	Double (Tinted)	Yes	0.33	0.21	N	30.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/b		None
	. 7	W	5	Metal	Double (Tinted)	Yes	0.33	0.21	N	6.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/b	olinds	None
							INFILT	RATIC	N						
ŧ	Scope		N	lethod		SLA	CFM 50	ELA	E	qLA	ACH	ACH	1 50		
W	holehou	se	Prop	osed AC	CH(50) .000	0356	1325.3	72.76	13	6.83	.1339	7	,		
							HEATING	3 SYS	ГЕМ	п					
V	#	S	/stem T	уре	Su	btype	Speed		Efficienc	у (Capacity		E	Block	Ducts
	. 1	El	ectric H	leat Pun	np/ Sp	lit	Singl		HSPF:8.	2 36	8 kBtu/hr)* E	1	sys#1
							COOLING	G SYS	TEM						
V	#	Sy	stem T	уре	Su	btype	Subtype) E	fficiency	Capaci	ty A	ir Flow S	HR E	Block	Ducts
	. 1	Ce	entral U	nit/	Sp	lit	Singl	5	EER: 14	36 kBtu	/hr 10	80 cfm 0	.75	1	sys#1

INPUT SUMMARY CHECKLIST REPORT FORM R405-2017 **HOT WATER SYSTEM** Conservation Use SetPnt Location EF Cap SubType System Type None 50 gal 120 deg 0.95 40 gal Main Electric None 1 **SOLAR HOT WATER SYSTEM** Collector Storage **FSEC FEF** Volume Collector Model # Area System Model # Cert # Company Name ft² None None **DUCTS** CFM25 HVAC# **CFM 25** Air ---- Return -------- Supply ----OUT QN **RLF** Heat Cool Handler TOT R-Value Area Location Area Leakage Type Location 1 1 Main (Default) (Default) 50 ft² **Default Leakage** Attic Attic 150 ft² 1 **TEMPERATURES** Ceiling Fans: Programable Thermostat: N Dec X Dec Dec [X] Jun | Jun | Jun May May May Cooling Heating Venting Mar X Mar X Mar Jan X Jan Jan Thermostat Schedule: HERS 2006 Reference Hours 12 11 7 8 9 10 5 6 2 3 4 Schedule Type 78 Cooling (WD) 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 Cooling (WEH) 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 Heating (WD) 68 68 68 68 68 68 68 68 68 68 68 68 Heating (WEH) **MASS Furniture Fraction** Space Thickness Area Mass Type

0ft

Oft2

Main

0.3

Default(8 lbs/sq.ft.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0 c) AHU location Main
3. No. of units (if multiple-family)	31	oj Alio locatori
4. Number of bedrooms	42	13. Cooling system: Capacity 36.0 a) Split system SEER 14.0
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. <u>1420</u>	d) Room unit/PTAC EER
 7. Windows, type and area a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC) c) Area 8. Skylights	7a. 0.330 7b. 0.210 7c. 150.0	14. Heating system: Capacity 36.0 a) Split system heat pump HSPF 8.2 b) Single package heat pump HSPF c) Electric resistance COP
a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC)	8a. <u>NA</u> 8b. <u>NA</u>	d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other
9. Floor type, insulation level:a) Slab-on-grade (R-value)b) Wood, raised (R-value)c) Concrete, raised (R-value)	9a0.0 9b 9c	15. Water heating system a) Electric resistance EF 0.95
10. Wall type and insulation: A. Exterior: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent: 1. Wood frame (Insulation R-value)	10A113.0 10A2	b) Gas fired, natural gas EF c) Gas fired, LPG EF d) Solar system with tank EF e) Dedicated heat pump with tank EF f) Heat recovery unit HeatRec% g) Other
2. Masonry (Insulation R-value) 11. Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed	10B2 11a38.0 11b 11c 11dNo	16. HVAC credits claimed (Performance Method) a) Ceiling fans Yes b) Cross ventilation Yes c) Whole house fan No d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat No
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ene	rgy Conservation, if not DEFAULT.
I certify that this home has complied with the saving features which will be installed (or excedisplay card will be completed based on installed).	eeded) in this home before	
Builder Signature:		Date:
Address of New Home: _489 NE Manatee PL		City/FL Zip: Lake City, FL 32055

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

ADDRESS:	489 NE Manatee PL	Permit Number:	
	Lake City , FL , 32055		

MANDATORY 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 plant 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 Sections R402.4.1 through R402.4.5.
	Exception: 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 envelopise 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.
	Exception: 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.
	R402.4.2 Fireplaces. 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 leakage Windows, 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:** Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 1. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential. 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. SECTION R403 SYSTEMS R403.1 Controls. R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system. Heat pumps having supplementary electric-resistance heat shall have controls R403.1.3 Heat pump supplementary heat (Mandatory). that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load. All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways R403.3.2 Sealing (Mandatory) 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. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent R403.3.2.1 Sealed air handler. 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: 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 test. 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. **Exceptions:** 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. Duct testing is not mandatory for buildings complying by Section 405 of this code. 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. Mechanical system piping capable of carrying fluids above 105°F (41°C) R403.4 Mechanical system piping insulation (Mandatory). 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

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

shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance

M	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:
	 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and Be installed at an orientation within 45 degrees of true south.
	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:
	 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.
	 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.
	3. 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

TABLE R403.6.1 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

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.

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ⁸ (CFM/WATT)	AIRFLOW RATE MAXIMUN (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 St: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

M/	ANDATORY 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:
	 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.
	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:
	 A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
	 A variable capacity system sized for optimum performance during base load periods is utilized.
	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:
	 Where public health standards require 24-hour pump operation. Pumps that operate solar- and waste-heat-recovery pool heating systems.
	 Pumps that operate solar- and waste-neat-recovery poor neating 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) he 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:

Norris-Ratliff

Street: City, State, Zip: 489 NE Manatee PL Lake City , FL , 32055

Owner:

Connie Ratliff FL. Gainesville

Builder Name: John Norris Construction

Permit Office: Permit Number: Jurisdiction:

) E

Owner: Design Location:	FL, Gainesville		
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.	L
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 #	<u>:</u>
Job Information		
Builder: John Norris Construction	Community:	Lot: NA
Address: 489 NE Manatee PL		
City: Lake City	State: FL	Zip: 32055
Air Leakage Test Results Page 1	assing results must meet either the Pen	formance, Prescriptive, or ERI Method
changes perihour at a pressure of 0.2 i	nch w.g. (50 Pascals) in Climate Zones 1 are e building or dwelling unit shall be tested an	d verified as having an air leakage rate of not exceeding
the selected ACH(50) value, as shown on For	m R405-2017 (Performance) or R406-2017 Form R405-2017-Energy Calc (Performance	(ERI), section labeled as infiltration, sub-section ACH50.
x 60 ÷ 11360 CFM(50) PASS	= slume ACH(50)	Method for calculating building volume: Retrieved from architectural plans Code software calculated
When ACH(50) is less than 3, must be verified by building de	Mechanical Ventilation installation epartment.	Field measured and calculated
Testing shall be conducted by either individua	Is as defined in Section 553.993(5) or (7), <i>Fi</i> arty. A written report of the results of the tes	80 and reported at a pressure of 0.2 inch w.g. (50 Pascals) lorida Statues.or individuals licensed as set forth in Section t shall be signed by the party conducting the test and netrations of the building thermal envelope.
control measures.		beyond the intended weatherstripping or other infiltration losed, but not sealed beyond intended infiltration control
3. Interior doors, if installed at the time of the 4. Exterior doors for continuous ventilation sys 5. Heating and cooling systems, if installed at 6. Supply and return registers, if installed at the systems of the systems of the systems of the systems.	stems and heat recovery ventilators shall be the time of the test, shall be turned off.	closed and sealed.
Testing Company		
Company Name: I hereby verify that the above Air Leakage Energy Conservation requirements according to the control of t	Pge results are in accordance with the 20	Phone: D17 6th Edition Florida Building Code
Signature of Tester:	C	Date of Test:
Printed Name of Tester:	****	
License/Certification #:	Issuing A	uthority:

Residential System Sizing Calculation

Summary Project Title:

Connie Ratliff 489 NE Manatee PL Lake City, FL 32055

Norris-Ratliff

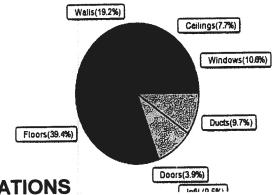
11/15/2019

Location for weather data: Gaine: Humidity data: Interior RH (50%	sville, FL -	Defaults: L	atitude(29.7) Altitude(152 ft.) Temp 7F) Humidity difference(51gr.)	Range(M)	
Humidity data. Interior KiT (50%)	99%) 30	F	Summer design temperature(TMY3	99%) 94	F
Winter design temperature(TMY3	70		Summer setpoint	[′] 75	
Winter setpoint	40		Summer temperature difference	19	F
Winter temperature difference Total heating load calculation	18712		Total cooling load calculation	13511	Btuh
Submitted heating capacity	% of calc		Submitted cooling capacity	% of calc	Btuh
		36000	Sensible (SHR = 0.75)	254.9	27000
Total (Electric Heat Pump)	· -	36000	Latent	308.2	9000
Heat Pump + Auxiliary(0.0kW)	132.4	30000	Total (Electric Heat Pump)	266.5	36000

WINTER CALCULATIONS

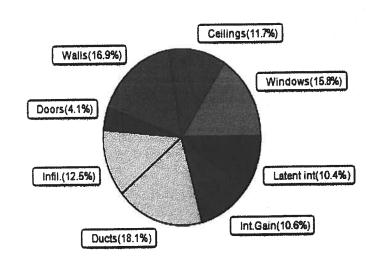
Winter Heating Load (for 1420 sqft)

AAILIEGI LIOGIGILIA FORE (12				
Load component			Load	
Window total	150	sqft	1980	Btuh
Wall total	1058	sqft	3591	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	1420	sqft	1442	Btuh
Floor total	1420	saft	7363	Btuh
Infiltration	41	cfm	1776	Btuh
Duct loss			1824	Btuh
Subtotal			18712	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS	_		18712	Btuh



SUMMER CALCULATIONS

Load component				Load	
Window total		150	sqft	2130	Btuh
Wall total	100	1058	sqft	2289	Btuh
Door total		40	sqft	552	Btuh
Ceiling total		1420	sqft	1586	Btuh
Floor total			•	0	Btuh
Infiltration		30	cfm	633	Btuh
Internal gain				1430	Btuh
Duct gain				1971	Btuh
Sens. Ventilation		0	cfm	0	Btuh
Blower Load				0	Btuh
Total sensible gain				10591	Btuh
Latent gain(ducts)				470	Btuh
Latent gain(infiltration)				1050	Btuh
Latent gain(ventilation)				0	Btuh
Latent gain(internal/occu	upan	ts/othe	er)	1400	Btuh
Total latent gain				2920	Btuh
TOTAL HEAT GAIN				13511	Btuh





EnergyGauge® System Sizing PREPARED BY DATE: LHS

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Connie Ratliff 489 NE Manatee PL Lake City, FL 32055 Project Title: Norris-Ratliff Building Type: User

11/15/2019

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

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.21	Metal 0	0.33	N	9.0	13.2	119 Btuh
2	2, NFRC 0.21	Metal 0	0.33	N	15.0	13.2	198 Btuh
3	2, NFRC 0.21	Metal 0	0.33	E	45.0	13.2	594 Btuh
4	2, NFRC 0.21	Metal (0.33	S	30.0	13.2	396 Btuh
5	2, NFRC 0.21	Metal (0.33	S	15.0	13.2	198 Btuh
6	2, NFRC 0.21	Metal 0	0.33	W	30.0	13.2	396 Btuh
7	2, NFRC 0.21	Metal 0	0.33	W	6.0	13.2	79 Btuh
	Window Total	-			150.0(sqft)		1980 Btuh
Walls	Туре	Ornt. Ueff	f	R-Value	Area X	HTM=	Load
				(Cav/Sh)			
1	Frame - Wood	- Ext (0.0	85)	13.0/1.0	356	3.39	1208 Btuh
2	Frame - Wood	- Ext (0.0	•	13.0/1.0	179	3.39	608 Btuh
3	Frame - Wood	- Ext (0.0		13.0/1.0	242	3.39	821 Btuh
4	Frame - Wood	- Ext (0.0		13.0/1.0	93	3.39	316 Btuh
5	Frame - Wood	- Ext (0.0	85)	13.0/1.0	188	3.39	638 Btuh
	Wall Total			···	1058(sqft)		3591 Btuh
Doors	Туре	Storm Ue			Area X	HTM=	Load
1	Insulated - Exter	ior, n (0.4	60)		20	18.4	368 Btuh
2	Insulated - Exter	rior, n (0.4	60)		20	18.4	368 Btuh
	Door Total				40(sqft)	i i	736Btuh
Ceilings	Type/Color/Surf	ace Ueff	.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/S	hing (0.025	5)	38.0/0.0	1420	1.0	1442 Btuh
	Ceiling Total				1420(sqft)	· ·	1442Btuh
Floors	Туре	ι	Jeff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1	.180)	0.0	156.0 ft(peri	m.) 47.2	7363 Btuh
	Floor Total				1420 sqft		7363 Btuh
					Envelope Subto	tal:	15112 Btuh
				<u>-</u>			
Infiltration	Туре	Wholehou	use A	•		o CFM=	
	Natural		0.	21 11360	1.00	40.6	1776 Btuh
Duct load	Average sealed,	R6.0, Suppl	ly(Att)	, Return(Att)	(DLM	of 0.108)	1824 Btuh
All Zones				Sensible	Subtotal All Zo	ones	18712 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

Connie Ratliff 489 NE Manatee PL Lake City, FL 32055 Project Title: Norris-Ratliff Building Type: User

11/15/2019

	Subtotal Sensible Heat Loss	18712
Totals for Heating	Ventilation Sensible Heat Loss Total Heat Loss	18712

EQ		

1. Electric Heat Pump	#	36000 Btuh

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



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Connie Ratliff 489 NE Manatee PL Lake City, FL 32055 Project Title: Norris-Ratliff

11/15/2019

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%)

Humidity difference: 51gr.

Component Loads for Whole House

		Tv	pe	*			Over	hang	Win	dow Area	a(sqft)	H	ITM	Load	
Window	Panes	SHGC	-		ıs	Ornt	Len	Hat	Gross			Shaded	Unshaded		
1	2 NFRC		_	B-L	No	N	1.5ft	1.0ft	9.0	0.0	9.0	8	- 8	75	
2	2 NFRC			B-L	No	N	1.5ft	1.0ft	15.0	0.0	15.0	8	8	125	
3	2 NFRC			B-L	No	Ε	1.5ft	1.0ft	45.0	2.2	42.8	8	19	853	
4	2 NFRC	0.21, 0.	33	B-L	No	S	1.5ft	1.0ft	30.0	30.0	0.0	8	10	250	
5	2 NFRC	0.21, 0.	33	B-L	No	S	1.5ft	10.0f	15.0	0.0	15.0	8	10	147	
6	2 NFRC	0.21, 0.	.33	B-L	No	W	1.5ft	1.0ft	30.0	1.5	28.5	8	19	568	
7	2 NFRC	0.21, 0.	.33	B-L	No	W	1.5ft	1.0ft	6.0	0.5	5.5	8	19	111	
	Windov	v Total							150 (Btuh
Walls	Type					U	-Value	∍ R-\	/alue	Area	(sqft)		HTM	Load	
	••							Cav/S	heath						
1	Frame -	Wood - I	Ext			1	80.0	13.0)/1.0		6.0		2.2	770	
2	Frame -	Wood	Ext				0.08)/1.0		9.0		2.2	387	
3	Frame -	Wood - I	Ext				0.08)/1.0		2.0		2.2	524	
4	Frame -						0.08)/1.0		3.0		2.2	201	
5	Frame -		Ext			1	0.08	13.0)/1.0		8.0		2.2	-	Btuh
	Wall To	otal									8 (sqft)				Btuh
Doors	Type									Area	(sqft)		HTM	Load	
1	Insulated	i - Exteri	ior							20).0		13.8	276	
2	Insulated	i - Exteri	or							20	0.0		13.8		Btuh
_	Door T	otal								4	0 (sqft)	-		552	Btuh
Ceilings	Type/C		urfa	ace		U	-Value	9	R-Valu	e Area	(sqft)		HTM	Load	
1	Vented A						0.025		38.0/0.0		20.0		1.12	1586	Btuh
•	Ceiling	-	100	illigic			0.020		00.0.0.		20 (sqft)			1586	Btuh
Floors		Total						R-\	/alue		ze		HTM	Load	
	Туре							11-				motor)	0.0	0	
1	Slab On								0.0		20 (ft-peri	meter)	0.0	_) Btuh
	Floor T	otal								1420	.0 (sqft)				Dluii
										E	nvelope	Subtota	al:	6556	Btuh
		-						-			*)_4!_	OFM-	land	
Infiltration	Type					Ave	rage A		Vol		t) Wall F	catio	CFM=	Load	
	Natura	1						0.16		11360			30.4	633	
internal							Occu	pants		Btuh/o	ccupant		Appliance	Load	
gain								` -1		X 23	30 +	-	1200	1430	Btuh
3			_							S	ensible	Envelop	e Load:	8619	Btuh
Duct load	Average	sealed,	Su	pply(R	6.0-	Attic),	Return(R6.0-A	ttic)		(DG	M of 0.2	229)	1971	Btuh
										Se	nsible L	oad All	Zones	10591	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_I

Connie Ratliff 489 NE Manatee PL Lake City, FL 32055

Norris-Ratliff

Climate:FL_GAINESVILLE_REGIONAL_A

11/15/2019

WHOLE HOUSE TOTALS

		With the Children Street	
	Sensible Envelope Load All Zones	8619	Btuh
	Sensible Duct Load	1971	Btuh
	Total Sensible Zone Loads	10591	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	10591	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1050	Btuh
	Latent ventilation gain	o	Btuh
	Latent duct gain	470	Btuh
	Latent occupant gain (1.0 people @ 200 Btuh per person)	200	Btuh
	Latent other gain	1200	Btuh
	Latent total gain	2920	Btuh
	TOTAL GAIN	13511	Btuh

1. Central Unit	#	36000 Btuh
EQUIPMENT		THE STATE OF THE S

*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))

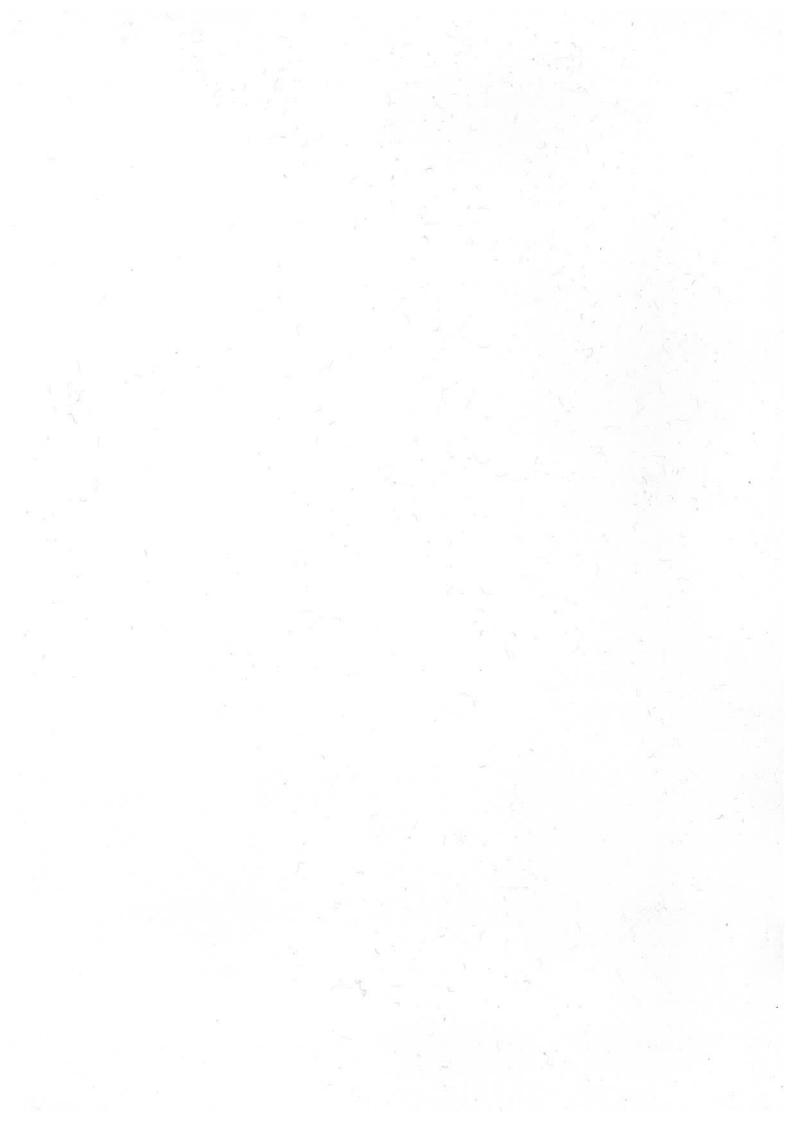
- For Blinds: Assume medium color, half closed For Draperies: Assume medium weave, half closed For Roller shades: Assume translucent, half closed

(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: 2145911 - NORRIS - RATLIFF RES.

MiTek USA, Inc.

6904 Parke East Blvd.

Site Information:

Customer Info: John Norris Project Name: Ratliff Res. Model: Custom

Subdivision: N/A

Tampa, FL 33610-4115

Lot/Block: N/A

Address: 489 NE Manatee Place, N/A

City: Columbia Cty

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 17 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T19043142	CJ01	1/6/20
2 3 4 5	T19043143	CJ03	1/6/20
3	T19043144	CJ05	1/6/20
4	T19043145	EJ01	1/6/20
5	T19043146	<u>HJ</u> 10	1/6/20
6 7	T19043147	T01	1/6/20
(T19043148	T01G	1/6/20
8	T19043149	T02	1/6/20
9 10	T19043150	T02G T03	1/6/20
11	T19043151 T19043152	T03G	1/6/20
12	T19043153	T04	1/6/20
13	T19043154	T04A	1/6/20 1/6/20
14	T19043155	T05	1/6/20
15	T19043156	†06	1/6/20
16	T19043157	Ť07	1/6/20
17	T19043158	T08	1/6/20



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: Albani, Thomas

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.



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

January 6,2020

Job Truss Truss Type Qty Ply NORRIS - RATLIFF RES T19043142 2145911 JACK-OPEN Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Dec 6 2019 MiTek Industries, Inc. Mon Jan 6 06:59:00 2020 Page 1 ID:XwL2?ZzfDPn3SolmsSGt66zD0EV-DlvxV9k1fCZcq3vJel20_xGT4i0dR8wyohYO4yzy95f Scale = 1:8.2 5.00 12 9-6-0 55.1

Plate Offsets (X,Y)-	[2:0-0-10,0-0-3]		1-0-0
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 0.30 BC 0.06 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.00 7 >999 240 MT20 244/190 Vert(CT) 0.00 7 >999 180 Horz(CT) 0.00 2 n/a n/a Weight: 6 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.

1-0-0

REACTIONS.

(lb/size) 3=-27/Mechanical, 2=254/0-3-8, 4=-46/Mechanical

Max Horz 2=57(LC 8)

Max Uplift 3=-27(LC 1), 2=-205(LC 8), 4=-46(LC 1)

Max Grav 3=31(LC 8), 2=254(LC 1), 4=45(LC 8)

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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 205 lb uplift at joint 2 and 46 lb uplift at joint 4.



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

January 6,2020

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



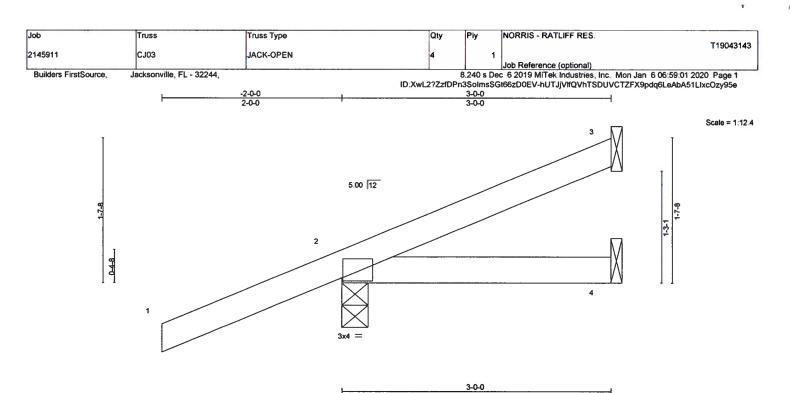


Plate Off	sets (X,Y)	[2:0-0-2,0-0-7]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	Vdefl	L∕d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	тс	0.30	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	l wa	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MP						Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

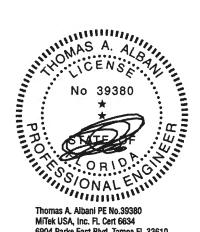
2x4 SP No.2

Max Horz 2=94(LC 12) Max Uplift 3=-44(LC 12), 2=-174(LC 8), 4=-22(LC 9) Max Grav 3=52(LC 1), 2=253(LC 1), 4=47(LC 3)

(lb/size) 3=52/Mechanical, 2=253/0-3-8, 4=20/Mechanical

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) 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. It; 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.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3, 174 lb uplift at joint 2 and 22 lb uplift at joint 4.



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

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

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

January 6,2020

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer 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 ucallapse 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Seferty Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type NORRIS - RATLIFF RES. Qty T19043144 2145911 CJ05 JACK-OPEN Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Dec 6 2019 MiTek Industries, Inc. Mon Jan 6 06:59:01 2020 Page 1 ID:XwL2?ZzfDPn3SolmsSGt66zD0EV-hUTJjVtfQVhTSDUVCTZFX9pcz6HdAbA51LlxcOzy95e Scale = 1:16.4 4 5.00 12 4 5-0-0 Plate Offsets (X,Y)-[2:0-0-6,0-0-3] LOADING (psf) SPACING-2-0-0 DEFL. in **PLATES** (loc) **Vdefl** L/d GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.35 Vert(LL) 0.08 4-7 >772 240 244/190 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.33 0.07 Vert(CT) 4-7 >883 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-MP Weight: 19 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2

BOT CHORD

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

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

REACTIONS. (lb/size) 3=108/Mechanical, 2=313/0-3-8, 4=53/Mechanical

Max Horz 2=135(LC 12)

Max Uplift 3=-91(LC 12), 2=-198(LC 8), 4=-44(LC 9)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=86(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - Ali 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3, 198 lb uplift at joint 2 and 44 lb uplift at joint 4.



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

January 6,2020

⚠ 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 MITeke's connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent 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/TPH Quality Criteria, DSB-89 and BCSI Building Comp. Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty NORRIS - RATLIFF RES. T19043145 2145911 EJ01 JACK-PARTIAL Job Reference (optional) 8.240 s Dec 6 2019 MiTek Industries, Inc. Mon Jan 6 06:59:02 2020 Page 1 Builders FirstSource, Jacksonville, FL - 32244, ID:XwL2?ZzfDPn3SoImsSGt66zD0EV-9g1hwmiBppJ3N3hlA4U3MMgWVXZv2QEF?1V9qzy95d -2-0-0 2-0-0 Scale = 1:20.4 5.00 12 2-11-1 4 7-0-0 7-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in **Vdefl** L/d **PLATES** GRIP (loc) Plate Grip DOL TCLL 20.0 1.25 TC 0.82 Vert(LL) 0.32 >258 240 MT20 244/190 ВÇ TCDL 7.0 Lumber DOL 1.25 0.73 Vert(CT) 0.28 >298 180 0.0 * WB 0.00 BCLL Rep Stress Incr YES Horz(CT) -0.01 n/a n/a Code FBC2017/TPI2014 Weight: 25 lb **BCDL** 10.0 Matrix-MS 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 2-3-13 oc purlins.

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

REACTIONS. (lb/size) 3=160/Mechanical, 2=380/0-3-8, 4=81/Mechanical

Max Horz 2=175(LC 12)

Max Uplift 3=-134(LC 12), 2=-230(LC 8), 4=-64(LC 9) Max Grav 3=160(LC 1), 2=380(LC 1), 4=124(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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 3, 230 lb uplift at joint 2 and 64 lb uplift at joint 4.



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

January 6,2020



Job Truss Truss Type Qty NORRIS - RATLIFF RES. T19043146 2145911 **HJ10** DIAGONAL HIP GIRDER 1 Job Reference (optional) Builders FirstSource. Jacksonville, FL - 32244 8.240 s Dec 6 2019 MiTek Industries, Inc. Mon Jan 6 06:59:03 2020 Page 1 ID:XwL2?ZzfDPn3SolmsSGt66zD0EV-dsb38Bnwy7xAhXeuJtcjcauumvvSePaOUfn2hGzy95c 9-10-1 2-9-15 Scale = 1:23.1 3.54 12 3x4 = 84 13 7 $3x4 = {}_{5}$ 2x4 ||

			4-6-0 4-6-0		+			9-9-5 5-3-5		9-10-1 0-0-12
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/TF	2-0-0 1.25 1.25 NO	CSI. TC 0.59 BC 0.63 WB 0.39 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.12 -0.13 0.01	(loc) 6-7 6-7 5	l/defi >960 >926 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 44 lb	GRIP 244/190 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 6-0-0 oc purtins.

Rigid ceiling directly applied or 7-5-9 oc bracing.

REACTIONS.

(lb/size) 4=151/Mechanical, 2=463/0-4-9, 5=251/Mechanical Max Horz 2=194(LC 4)

Max Uplift 4=-134(LC 4), 2=-312(LC 4), 5=-197(LC 5)

Max Grav 4=151(LC 1), 2=463(LC 1), 5=265(LC 3)

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

2-3=-718/467

BOT CHORD 2-7=-524/673, 6-7=-524/673

WERS 3-6=-698/544

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

444 =

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 4, 312 lb uplift at joint 2 and 197 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 104 lb up at 1-6-1, 93 lb down and 104 lb up at 1-6-1, 25 lb down and 33 lb up at 4-4-0, 25 lb down and 33 lb up at 4-4-0, and 49 lb down and 89 lb up at 7-1-15, and 49 lb down and 89 lb up at 7-1-15 on top chord, and 72 lb down and 74 lb up at 1-6-1, 72 lb down and 74 lb up at 1-6-1, 52 lb down and 29 lb up at 4-4-0, 52 lb down and 29 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.
- 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

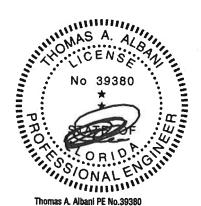
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=4(F=2, B=2) 11=49(F=25, B=25) 12=-63(F=-32, B=-32) 13=70(F=35, B=35) 14=-49(F=-25, B=-25)



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

January 6,2020

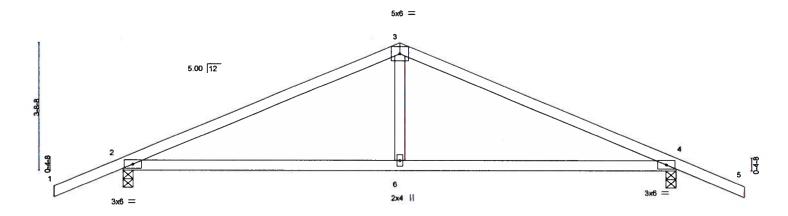
📤 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev., 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design dicated is to prevent buckling of individual lruss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual lruss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent occlapse 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/TPH Quality Criteria, DSB-89 and BCSI Building Comp. Safety Information available from Truss Plate Institute, 216 Nt. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	NORRIS - RATLIFF RES.	
2145911	T01	COMMON	4	1		T19043147
					Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,		10.50500	3.240 s De	c 6 2019 MiTek Industries, Inc. Mon Jan	6 06:59:04 2020 Page 1
			ID:XwL2?ZzfDF	n3SolmsS	Gt66zD0EV-639RLXoYjQ31JhD4tb7y9nl	R1HJEtNwlXjJWbDjzy95b
2-0-0		8-0-0			16-0-0	18-0-0
2-0-0		8-0-0	•		8-0-0	2-0-0

Scale: 3/8"=1"



	8-0-0 8-0-0		16-0-0 8-0-0	
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 0.73 BC 0.68 WB 0.14 Matrix-MS	DEFL. in (loc) I/defl L/d Vert(LL) 0.25 6-12 >755 240 Vert(CT) 0.22 6-12 >886 180 Horz(CT) 0.01 4 n/a n/a	PLATES GRIP MT20 244/190 Weight: 61 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

(lb/size) 2=700/0-3-8, 4=700/0-3-8 Max Horz 2=88(LC 12) REACTIONS.

Max Uplift 2=-433(LC 8), 4=-433(LC 9)

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

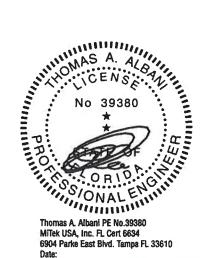
TOP CHORD 2-3=-914/1225, 3-4=-914/1225 **BOT CHORD** 2-6=-987/774, 4-6=-987/774

WEBS 3-6=-551/363

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 433 lb uplift at joint 2 and 433 lb uplift at joint 4.



Structural wood sheathing directly applied or 3-11-15 oc purlins.

Rigid ceiling directly applied or 4-11-12 oc bracing.

6904 Parke East Blvd. Tampa FL 33610

January 6,2020

A WARNING - Verity 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. Eracing 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 ucollapse 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/TH1 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	NORRIS - RATLIFF RES.	
2145911	T01G	GABLE	ſ	,	1		T19043148
		<u> </u>				Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,			8.	240 s Dec	6 2019 MiTek Industries, Inc. Mon Jan 6 06:59	05 2020 Page 1
				2?ZzfDPr	3SolmsS	Gt66zD0EV-aFjqZtoAUkBuwqoGRleBh?zH5jdz6l	M4hxzG9l9zy95a
-2-0-0	5-0-0	8-0	0 ,	11-0-0)	16-0-0	18-0-0
2-0-0	5-0-0	3-0	0	3-0-0		5-0-0	2-0-0

Scale = 1:33.1

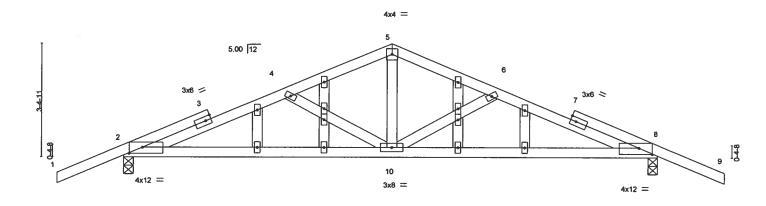


Plate Off	sets (X,Y)- [2	2:0-4-12,0-2-3], [8:0-4-12		3-0-0					8-0-0		
LOADING TCLL TCDL BCLL	G (psf) 20.0 7.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	BC	0.41 0.50 0.20	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (k 0.15 10- 0.13 10- -0.02	27 > 999	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code FBC2017/TI	PI2014	Matrix	-MS					Weight: 86 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

16 N N

Structural wood sheathing directly applied or 5-3-7 oc purlins.

Rigid ceiling directly applied or 5-1-11 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

2-5,5-8: 2x4 SP M 31

2-5,5-8: 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS. (lb/size) 2=697/0-3-8, 8=697/0-3-8

Max Horz 2=-81(LC 13)

Max Uplift 2=-434(LC 8), 8=-434(LC 9)

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

TOP CHORD 2-4=-1150/1544, 4-5=-868/1251, 5-6=-868/1253, 6-8=-1150/1547

BOT CHORD 2-10=-1121/781, 8-10=-1142/781

WEBS 5-10=-883/518, 4-10=-375/489, 6-10=-375/490

NOTES

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

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

8.0.0

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 434 lb uplift at joint 2 and 434 lb uplift at joint 8.



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

January 6,2020

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and lis 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

AMSUTPH1 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	NORRIS - RATLIFF RES.	
	L					T19043149
2145911	T02	COMMON	11	1		
					Job Reference (optional)	
Builders Fit	rstSource, Jacksonville, FL - 32244,			8.240 s De	c 6 2019 MiTek Industries, Inc. Mon Jan 6 06	:59:06 2020 Page 1
			ID:XwL2?ZzfDPn	SolmsSGt	66zD0EV-2RGCmDpoF2JIY_NT_09QECWP87	sbroYqAd?ilbzy95Z
L_	7-3-7	14-0-0	20-1	-10	28-0-0	30-0-0
	7-3-7	6-8-9	6-1	-9	7-3-7	2-0-0

Scale = 1:49.3

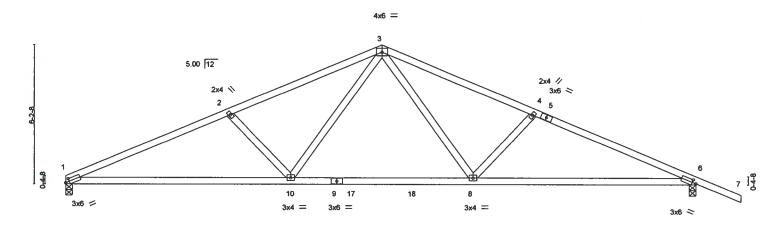


Plate Offsets (X,Y)	9-11-4 9-11-4 [1:0-2-1,0-1-8], [6:0-2-1,0-1-8]		-0-12 -1-7	+ -	28-0-0 9-11-4		
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0	CSI. TC 0.58 BC 0.92 WB 0.31 Matrix-MS	DEFL. in Vert(LL) -0.22 Vert(CT) -0.48 Horz(CT) 0.07		L/d 240 180 n/a	PLATES MT20 Weight: 123 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3

(lb/size) 1=1032/0-3-8, 6=1148/0-3-8

Max Horz 1=-157(LC 17)

Max Uplift 1=-392(LC 12), 6=-462(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2056/1132, 2-3=-1792/1021, 3-4=-1777/1008, 4-6=-2036/1116

BOT CHORD

REACTIONS.

1-10=-918/1862, 8-10=-473/1233, 6-8=-899/1840

WEBS

3-8=-290/605, 4-8=-421/390, 3-10=-312/627, 2-10=-434/401

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 392 lb uplift at joint 1 and 462 lb uplift at joint 6.



Structural wood sheathing directly applied or 3-4-5 oc purlins.

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

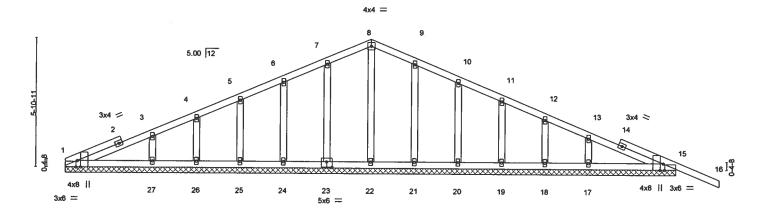
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

January 6,2020



- 1	Job	Truss	Truss Type	Qty	Ply	NORRIS - RATLIFF RES.	
	2145911	T02G	COMMON SUPPORTED GAB	1	1		T19043150
Į	5 74 5 10	L	I			Job Reference (optional)	
	Builders FirstSource, J	acksonville, FL - 32244,		ε	.240 s Dec	6 2019 MiTek Industries, Inc. Mon Ja	n 6 06:59:07 2020 Page 1
				ID:XwL2?ZzfDPn39	SolmsSGt6	6zD0EV-Weqa_ZqQ0LRcA8yfYjgfmQ3	fSWOXaHX PHIFq2zv95Y
	L	14-0		1		28-0-0	30-0-0
	•	14-0	-0			14-0-0	2-0-0

Scale = 1:50.7



 				28-0-0 28-0-0						
Plate Offsets (X,Y) [1:0-3-8,Edge], [1:0-0-12,E	Edge], [15:0-3-	8,Edge], [15:0-0-12,Edg							
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/TF	2-0-0 1.25 1.25 YES Pi2014	CSI. TC 0.29 BC 0.11 WB 0.07 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 0.01	(loc) 16 16 15	l/defi n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 147 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 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 6-0-0 oc bracing.

REACTIONS. All bearings 28-0-0

(lb) - Max Horz 1=-149(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 23, 24, 25, 26, 21, 20, 19, 18 except 15=-142(LC 9),

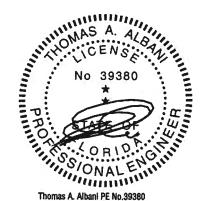
27=-141(LC 12), 17=-114(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 22, 23, 24, 25, 26, 21, 20, 19, 18, 17 except 15=267(LC 24), 27=279(LC 23)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 23, 24, 25, 26, 21, 20, 19, 18 except (jt=lb) 15=142, 27=141, 17=114.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.



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

January 6,2020

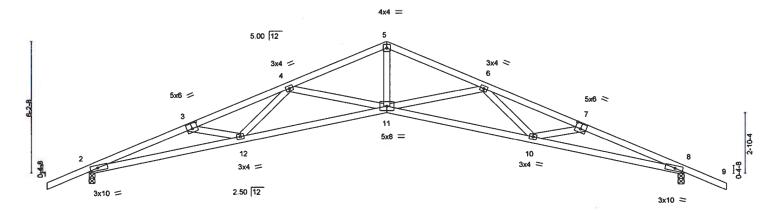
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see ANTPH1 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	NORRIS - RATLIFF RE	S.	
								T19043151
2145911	T03	SCISSORS		4	1			1
						Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,			8	.240 s Dec	6 2019 MiTek Industrie	s, Inc. Mon Jan 6 06:59:09	2020 Page 1
			ID:XwL:	?ZzfDPn3	SolmsSG	t66zD0EV-S0yKOErhYz	KPS62g8i7rr8wQKt922gGsb	EMuwzy95W
2-0-0 ,	4-10-8 , 9-	5-4 14-4)-0	8-6-12	.1	23-1-8	28-0-0	30-0-0
2-0-0	4-10-8 4-0	5-12 4-6	12	4-6-12		4-6-12	4-10-8	2-0-0

Scale = 1:52.1



	1	7-1-6		14-0-0	- 1	20-10-10			28-0-0	
	1000	7-1-6		6-10-10	1	6-10-10		1	7-1-6	
Plate Off	sets (X,Y)-	[2:0-4-8,0-1-8], [3:0-3-0,0	-3-0], [7:0-3-0,	0-3-0], [8:0-4-8,0-1-8]						
OADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.40 11-12	>838	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.79 11-12	>427	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.44 8	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matrix-MS	, ,				Weight: 129 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No,2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=1144/0-3-8, 8=1144/0-3-8 Max Horz 2=-140(LC 13)

Max Uplift 2=-461(LC 12), 8=-461(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3815/1918, 3-4=-3571/1729, 4-5=-2631/1271, 5-6=-2631/1271, 6-7=-3571/1760,

7-8=-3815/1948

BOT CHORD 2-12=-1655/3542, 11-12=-1381/3133, 10-11=-1395/3133, 8-10=-1714/3542

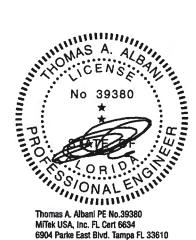
5-11=-789/1763, 6-11=-720/515, 6-10=-106/456, 7-10=-225/261, 4-11=-720/516, **WEBS**

4-12=-102/456, 3-12=-225/263

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members,
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=461, 8=461.



Structural wood sheathing directly applied or 2-6-15 oc purlins.

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

6904 Parke East Blvd. Tampa FL 33610

January 6,2020

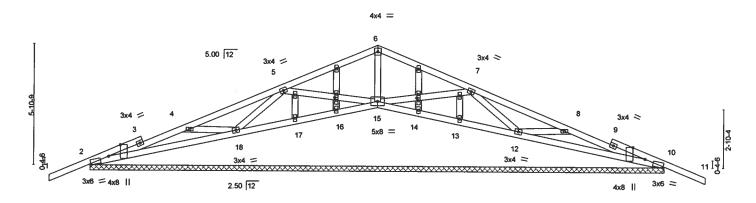
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and 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 designer must verify in a parameter building designer must verify of individual truss web and/dor chord members only. Additional temporary and permanent bracing is always required for stability and to prevent localizes 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/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.



Jop	Truss	Truss Type		Qty	Ply	NORRIS - RATLIFF RES	3.	
2145911	T03G	GABLE		1	1	111		T19043152
		<u> </u>			1	Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,				8.240 s De	c 6 2019 MiTek Industries	, Inc. Mon Jan 6 06:59:10	0 2020 Page 1
			ID:Xw	L2?ZzfDPn3So	lmsSGt66z	D0EV-wDWjcasJJGqB1c	gEDsEMO2h9DkM1nd?Q5	5FzwRNzv95V
-2-0-0	4-10-8	9-5-4	14-0-0	18-6-12		23-1-8	28-0-0	30-0-0
2-0-0	4-10-8	4-6-12	4-6-12	4-6-12		4-6-12	4-10-8	2-0-0

Scale = 1:53.9



		7-1-6 7-1-6		14- 6-10				10-10 0-10			28-0-0 7-1-6		
Plate Offsets (X,Y)-		[2:0-6-12,Edge], [2:0-11-3,Edge], [10				ge], [19:0-1-9,0-1					7-1-0		
TCDL BCLL	20.ó 7.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	BC 0	.32 .38 .15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.01	(loc) 11 11 10	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code FBC2017/Ti	PI2014	Matrix-S							Weight: 142 lb	FT = 20%	

LUMBER-

OTHERS

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

2x4 SP No.3 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 2-18,10-12.

REACTIONS. All bearings 28-0-0.

(lb) - Max Horz 2=-133(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-164(LC 8), 10=-184(LC 13), 15=-158(LC 12),

12=-304(LC 13), 18=-307(LC 12)

All reactions 250 lb or less at joint(s) 16, 17, 14, 13 except 2=321(LC 23), 10=321(LC 24), Max Grav 15=392(LC 1), 12=584(LC 24), 18=584(LC 23)

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

TOP CHORD 4-5=-287/426, 7-8=-247/426 **WEBS**

6-15=-309/177, 7-12=-538/421, 8-12=-536/515, 5-18=-538/418, 4-18=-536/517

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., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=4.2psf; BCDL=4.2psf; BCDL=4.2psf; BCDL=4.2psf; BCDL=4.2psf; GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2, 184 lb uplift at joint 10, 158 lb uplift at joint 15, 304 lb uplift at joint 12 and 307 lb uplift at joint 18.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 12, 18, 16, 17, 14, 13.



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

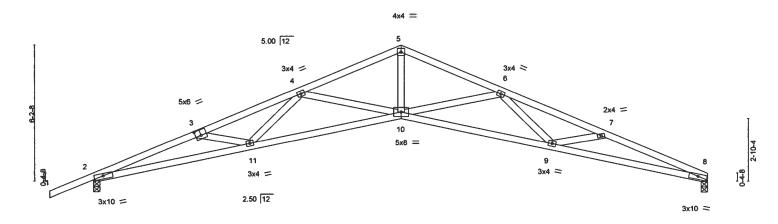
January 6,2020

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



Job	Truss	Truss Type		Qty	Ply	NORRIS - RATLIFF RES	
2145911	T04	SCISSORS					T19043153
2143911	104	SCISSORS		°	1	Job Reference (optional)	
Builders FirstSource	Jacksonville, FL - 32244,				8.240 s De	ec 6 2019 MiTek Industries, In	nc. Mon Jan 6 06:59:11 2020 Page 1
				ID:XwL2?Zzf	DPn3SolmsS	Gt66zD0EV-OP45pwtx4ay2el	FQnZlbxGDGj8ZZWy3ZKvjTzpzy95U
-2-0-0	4-10-8	9-5-4	14-0-0	18-	5-12	23-1-8	28-0-0
2-0-0	4-10-8	4-6-12	4-6-12	4-6	-12	4-6-12	4-10-8

Scale = 1:50.6



 	7-1-6	14-0-0	20-10-10	28-0-0
Plate Offsets (X,Y)-	7-1-6 [2:0-5-0,0-1-12], [3:0-3-0,0-3-0], [8:0-	6-10-10 5-0,0-1-12]	6-10-10	7-1-6
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 0.59 BC 0.93 WB 0.68 Matrix-MS	DEFL. in (loc) l/defl L/d Vert(LL) -0.41 10-11 >829 240 Vert(CT) -0.79 10-11 >424 180 Horz(CT) 0.44 8 n/a n/a	PLATES GRIP MT20 244/190 Weight: 126 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-6-0 oc purlins.

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

REACTIONS. (ib/size) 2=1148/0-3-8, 8=1032/0-3-8

Max Horz 2=157(LC 12)

Max Uplift 2=-462(LC 12), 8=-392(LC 13)

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

TOP CHORD 2-3=3833/2011, 3-4=3589/1826, 4-5=2649/1342, 5-6=2650/1342, 6-7=3632/1855,

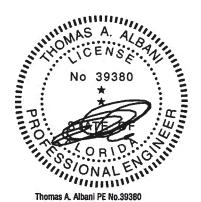
7-8=-3913/2084

BOT CHORD 2-11=-1813/3558, 10-11=-1500/3151, 9-10=-1518/3172, 8-9=-1889/3642 WEBS 5-10=-844/1778, 6-10=-742/532, 6-9=-116/463, 7-9=-269/301, 4-10=-721/513,

4-11=-96/456, 3-11=-225/257

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10,0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 462 lb uplift at joint 2 and 392 lb uplift at joint 8.



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

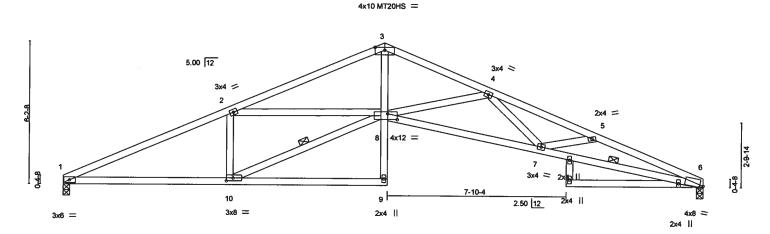
January 6,2020

📤 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 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 properly damage. For general guidance regarding the tabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPH1 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 NORRIS - RATLIFF RES. T19043154 2145911 T04A ROOF SPECIAL Job Reference (optional)
8.240 s Dec 6 2019 MiTek Industries, Inc. Mon Jan 6 06:59:12 2020 Page 1 Builders FirstSource. Jacksonville, FL - 32244 ID:XwL2?ZzfDPn3SolmsSGt66zD0EV-tbeT1GuZru4vGvqcLGGqTTmQNXuqFNjjYZS0VFzy95T 18-6-12 4-6-12 14-0-0 28-0-0 4-6-12

Scale: 1/4"=1"



	7-3-7	-	14-0-0 6-8-9	1	20-10 6-10			22-0-0 1-1-6	28-0-0 6-0-0	
Plate Offsets (X,Y)-	[3:0-5-0,0-1-8], [6:0-1-12	,0-1-0], [8:0-5-0	,0-3-0], [10:0-3-8,0-1-8]			-				
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/T	2-0-0 1.25 1.25 YES PI2014	CSI. TC 0.66 BC 0.99 WB 0.78 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.33 -0.66 0.31	(loc) 7-8 7-8 6	l/defi >999 >512 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 145 lb	GRIP 244/190 187/143 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

3-9,6-11: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 1=1036/0-3-8, 6=1036/0-3-8

Max Horz 1=-123(LC 17)

Max Uplift 1=-393(LC 12), 6=-393(LC 13)

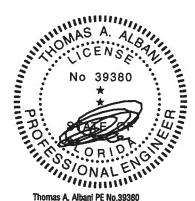
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD

1-2=-2131/1130, 2-3=-2649/1337, 3-4=-2640/1349, 4-5=-3653/1870, 5-6=-3933/2100 **BOT CHORD** 1-10=-953/1912, 3-8=-800/1714, 7-8=-1521/3167, 6-7=-1903/3661

WEBS 2-10=-627/426, 8-10=-1027/2046, 2-8=-49/515, 4-8=-745/528, 4-7=-126/488,

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl.. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 393 lb uplift at joint 1 and 393 lb uplift at ioint 6.



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

Rigid ceiling directly applied or 4-8-8 oc bracing. Except:

4-3-0 oc bracing: 6-7

1 Row at midpt

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

January 6,2020

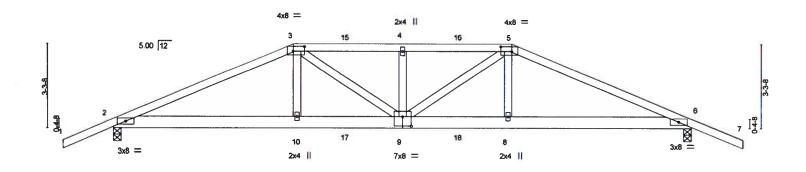
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters show, and is for an individual building component, not a truss system. Before 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 properly manage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	NORRIS - RATLIFF RES.	
2145911	T05	HIP GIRDER	4	١.		T19043155
2143311	100	THE GINDER		'	Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,				c 6 2019 MiTek Industries, Inc. Mon Jan	
			ID:XwL2?ZzfDPn3:	SolmsSGt6	6zD0EV-LoCrEcuBbBCmu3Ppv_n30hJZ0	2xG1_yLsnDCa1hzy95\$
2-0-0	7-0-0	11-3-0	15-6-0		22-6-0	24-6-0
2-0-0	7-0-0	4-3-0	4-3-0		7-0-0	2-0-0

Scale = 1:43.2



	1	7-0-0			11-3-0	1	5-6-0		1		22-6-0	
		7-0-0		<u>'</u>	4-3-0	4	-3-0		'		7-0-0	'
Plate Offse	ets (X,Y)	[<u>3:0-5-4,0-2-4], [5:0-5-4,0</u>	-2-4], [9:0-4-0,	0-4-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	1/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	тс	0.77	Vert(LL)	0.28	9	>955	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	ВС	0.80	Vert(CT)	-0.29	9	>942	180	1	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TF	PI2014	Matrix	-MS						Weight: 120 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*

3-5: 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=1687/0-3-8, 6=1716/0-3-8

Max Horz 2=79(LC 8)

Max Uplift 2=-1281(LC 4), 6=-1313(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-3522/2733, 3-4=-3785/3070, 4-5=-3785/3070, 5-6=-3595/2820

TOP CHORD **BOT CHORD**

2-10=-2439/3191, 9-10=-2459/3217, 8-9=-2540/3283, 6-8=-2519/3257

3-10=-415/626, 3-9=-668/797, 4-9=-578/473, 5-9=-531/701, 5-8=-413/626

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) gable end zone; porch left and right exposed; 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 toad nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1281 lb uplift at joint 2 and 1313 lb uplift at joint 6.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 135 lb up at 7-0-0, 106 lb down and 135 lb up at 9-0-12, 106 lb down and 135 lb up at 11-0-12, 106 lb down and 135 lb up at 11-5-4, and 106 lb down and 135 lb up at 13-5-4, and 228 lb down and 270 lb up at 15-6-0 on top chord, and 292 lb down and 321 lb up at 7-0-0, 84 Ib down and 86 lb up at 9-0-12, 84 lb down and 86 lb up at 11-0-12, 84 lb down and 86 lb up at 11-5-4, and 84 lb down and 86 lb up at 13-5-4, and 292 lb down and 321 lb up at 15-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

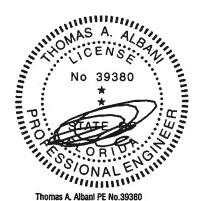
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (ptf)

Vert: 1-3=-54, 3-5=-54, 5-7=-54, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-106(B) 5=-181(B) 10=-283(B) 9=-122(B) 4=-213(B) 8=-283(B) 15=-106(B) 16=-106(B) 17=-61(B) 18=-61(B)



Structural wood sheathing directly applied or 2-4-14 oc purlins.

Rigid ceiling directly applied or 4-6-4 oc bracing.

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

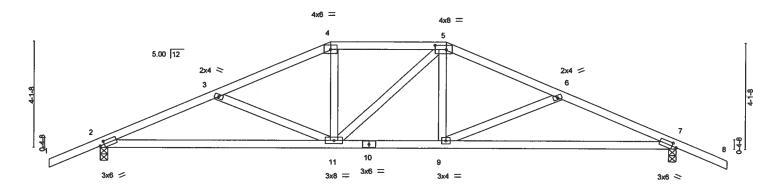
January 6,2020

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 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 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 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 ANSITH1 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	Q	lty	Ply	NORRIS - RATL	IFF RES.	
2145911	то6	HIP	1		1			T19043156
						Job Reference (optional)	
Builders FirstSource, J.	acksonville, FL - 32244,						ndustries, Inc. Mon Jan 6 06:59	
				??ZzfDPi	n3SolmsS	Gt66zD0EV-p_ID	SyvpMVKdVD_?ShllYurmDLdgi	RI00sx7a8zy95R
-2-0-0	4-7-10	9-0-0	13-6-0	1	17-	10-6	22-6-0	24-6-0
2-0-0	4-7-10	4-4-6	4-6-0	'	4-	4-6	4-7-10	2-0-0

Scale = 1:43.2



		9-0			-	13-6-0				22-6-0		—
Plate Offse	de (Y V)	9-([2:0-2-1,0-1-8], [5:0-5-4,0		0 1 9)	<u> </u>	4-6-0	<u> </u>			9-0-0		
riate Ollac	213 (X,1)=	[2.0-2-1,0-1-0], [3.0-3-4,0	-2-0], [1.0-2-1,	0-1-01						 		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.34	,	>788	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.33	9-17	>830	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TI	PI2014	Matrix	-MS					l l	Weight: 109 ib	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

REACTIONS. (lb/size) 2=941/0-3-8, 7=941/0-3-8

Max Horz 2=97(LC 12)

Max Uplift 2=-606(LC 8), 7=-606(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1634/2006, 3-4=-1322/1711, 4-5=-1182/1634, 5-6=-1321/1711, 6-7=-1634/2006

BOT CHORD 2-11=-1748/1486, 9-11=-1392/1182, 7-9=-1779/1486

3-11=-343/437, 4-11=-480/321, 5-9=-486/321, 6-9=-343/437 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 7) 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
- 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.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 606 lb uplift at joint 2 and 606 lb uplift at



Structural wood sheathing directly applied or 4-5-11 oc purlins.

Rigid ceiling directly applied or 3-0-2 oc bracing.

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

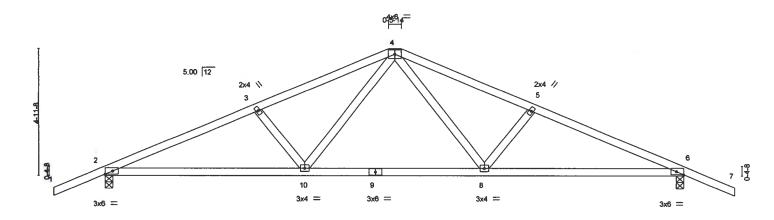
January 6,2020

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property amage. 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 Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	NORRIS - RATLIFF RES.	
2145911	T07	FINK	1	1		T19043157
					Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,	0,7		.240 s De	c 6 2019 MiTek Industries, Inc. Mon Jan 6 06:	59 15 2020 Page 1
			ID:XwL2?ZzfDPi	3SolmsS(Gt66zD0EV-HAJbflwS7pST7NZB0PpX56Oyfl?tS	Sol9FWhh6azy95Q
-2-0-0	5-11-6	11-3-0	10	-6-10	22-6-0	24-6-0
2-0-0	5-11-6	5-3-10	, ,	-3-10	5-11-6	2-0-0

Scale = 1:43.2



		7-9-0				14-9-0 7-0-1					22-6-0	
Plate Offse	ets (X,Y)-	[2:Edge,0-1-8], [6:Edge,0-	1-8]			7-0-1					7-9-0	
LOADING TCLL TCDL BCLL	(psf) 20.0 7.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	BC	0.60 0.59 0.53	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.21 -0.18 0.04	(loc) 8-16 10-13 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code FBC2017/TP	12014	Matrix-	MS	.L.					Weight: 102 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 4-4-12 oc purlins. Rigid ceiling directly applied or 3-11-14 oc bracing.

REACTIONS.

(lb/size) 2=941/0-3-8, 6=941/0-3-8

Max Horz 2=115(LC 12)

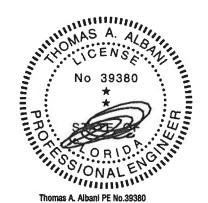
Max Uplift 2=-572(LC 8), 6=-572(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1609/2006, 3-4=-1425/1943, 4-5=-1425/1943, 5-6=-1609/2006 2-10=-1725/1441, 8-10=-1087/979, 6-8=-1747/1441 TOP CHORD **BOT CHORD**

WEBS 3-10=-307/318, 4-10=-785/492, 4-8=-785/492, 5-8=-307/318

- 1) Unbalanced roof live loads have been considered for this design.
- 3) 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

 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 572 lb uplift at joint 2 and 572 lb uplift at joint 6.



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

January 6,2020

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

AMSITPH 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	NORRIS - RATLIFF RES.	
2145911	Т08	COMMON	1	1		T19043158
D. 34 Fi 10					Job Reference (optional)	
Builders FirstSource,	Jacksonville, FL - 32244,			8.240 s De	c 6 2019 MiTek Industries, Inc. Mon Jan 6 0	6:59:16 2020 Page 1
					Gt66zD0EV-INt_sex4u6aKIX8Oa6KmeJx7P9L6	SBFOITAQEe0zy95P
-2-0-0	5-11-6	11-3-0		-6-10	22-6-0	24-6-0
2-0-0	5-11-6	5-3-10	5	3-10	5-11-6	2-0-0

Scale = 1:42.5

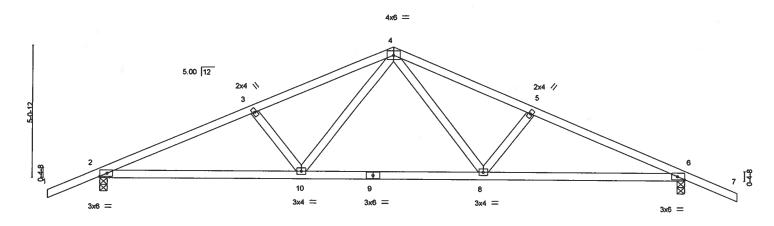


Plate Offsets (X,Y)-	7-9-0 [2:Edge,0-1-8], [6:Edge,0-1-	8]		7-0-1				7-9-0	
LOADING (psf) TCill 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2017/TPI2	1.25 T 1.25 E YES V	CSI. C 0.60 BC 0.59 VB 0.54 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	(loc) 8-16 I0-13 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 102 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS.

(lb/size) 2=941/0-3-8, 6=941/0-3-8

Max Horz 2=116(LC 12)

Max Uplift 2=-572(LC 8), 6=-572(LC 9)

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

7-9-0

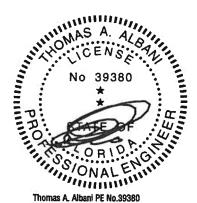
TOP CHORD 2-3=-1609/2006, 3-4=-1423/1940, 4-5=-1423/1940, 5-6=-1609/2006

BOT CHORD 2-10=-1725/1441, 8-10=-1072/968, 6-8=-1747/1441

WEBS 4-8=-798/499, 5-8=-316/335, 4-10=-798/499, 3-10=-316/335

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 572 lb uplift at joint 2 and 572 lb uplift at joint 6.



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

Rigid ceiling directly applied or 3-11-14 oc bracing.

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

January 6,2020

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 property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of fuseses and truss systems, see ANSUTPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

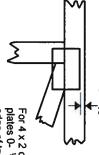


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/18" from outside

edge of truss.

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

Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

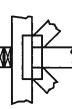
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



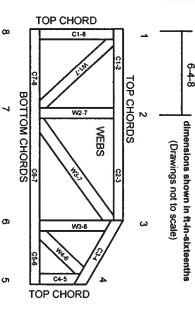
number where bearings occur. Indicates location where bearings Min size shown is for crushing only reaction section indicates joint (supports) occur. Icons vary but

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling, Building Component Safety Information. Design Standard for Bracing.

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

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

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

© 2012 MiTek® All Rights Reserved



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- 1. 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 bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual tateral braces themselves
- Never exceed the design loading shown and never stack materiats on inadequately braced trusses.

ω

- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- 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.

g

- 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.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient, and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

AUGUST 1, 2016

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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



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.

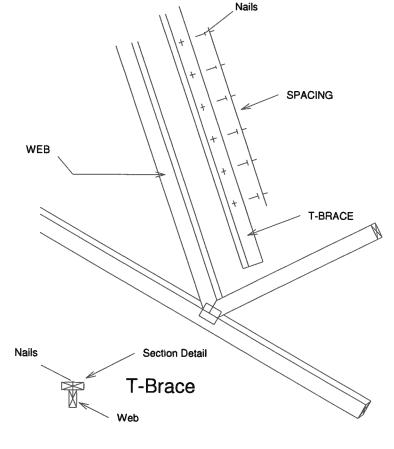
Nailing Pattern									
Nail Size	Nail Spacing								
10d (0.131" X 3")	6" o.c.								
	Nail Size								

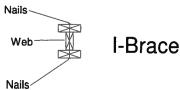
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

	Brace Size for One-Ply Truss					
		Continuous Iteral Bracing				
Web Size	1	2				
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace				
2x6	2x6 T-Brace	2x6 I-Brace				
2x8	2x8 T-Brace	2x8 I-Brace				

	Brace Size for Two-Ply Truss Specified Continuous Rows of Lateral Bracing					
Web Size	1	2				
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace				
2x6	2x6 T-Brace	2x6 I-Brace				
2x8	2x8 T-Brace	2x8 I-Brace				

T-Brace / I-Brace must be same species and grade (or better) as web member.







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

February 12, 2018

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

(R)

MiTek USA, Inc.

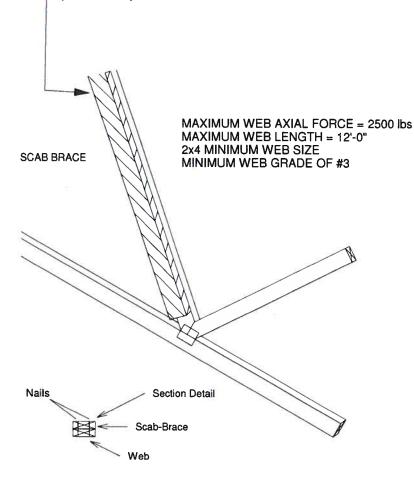
ENGINEERED BY

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 Blvd. Tampa FL 33610

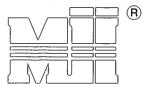
February 12, 2018

AUGUST 1, 2016

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

MII-REP05

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc. ENGINEERED BY

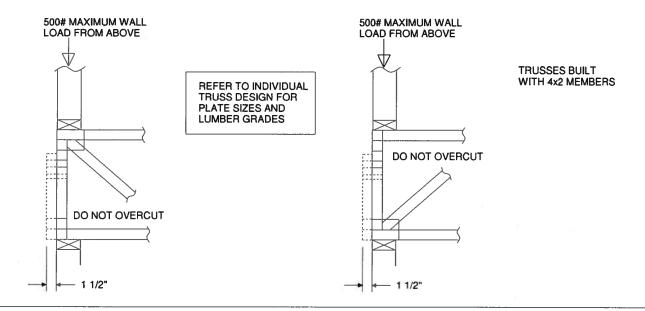
1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS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

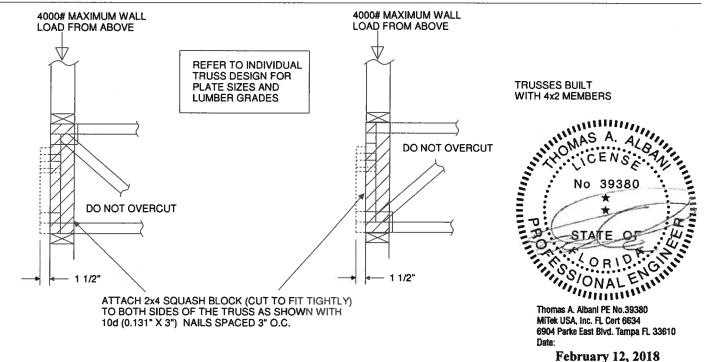
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE

APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

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

4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.

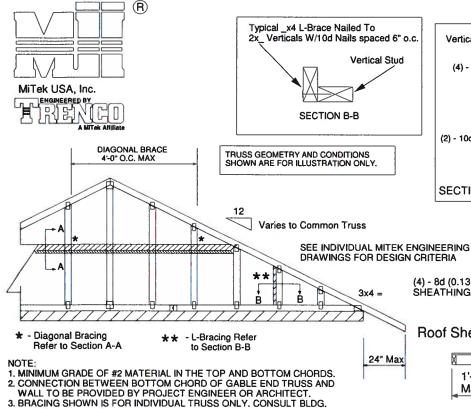




AUGUST 1, 2016

Standard Gable End Detail

MII-GE130-D-SP



MiTek USA, Inc. Page 1 of 2 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 2v4\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.

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

Roof Sheathing 1'-3"

(2) - 1Ód/ Max. NAILS (2) - 10d NAILS

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.

es @ 24" o.c.

∕Trusd

HORIZONTAL BRACE

End Wall

(SEE SECTION A-A)

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT

BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD.
ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4.
(REFER TO SECTION A-A)
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")

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						
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1

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

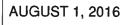
MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH DURATION OF LOAD INCREASE : 1.60

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



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

February 12, 2018



Standard Gable End Detail

MII-GE130-SP

Page 1 of 2

(2) - 10d NAILS

MiTek USA, Inc.



MiTek USA, Inc. 拟컮 디J.

DIAGONAL BRACE

4'-0" O.C. MAX

Typical _x4 L-Brace Nailed To 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 =

24" Max

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 (5) - 10d NAILS.

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD

(2) - 1Ó¢ł

NAILS

SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing

1'-3"

Max.

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.
- DIAPHRAM AT 4-0 J.C.

 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6* O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- 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")

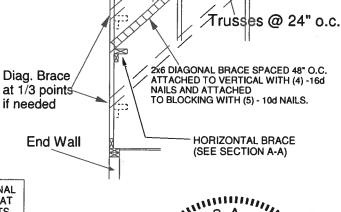
Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade						
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12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

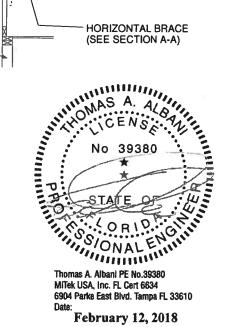
Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

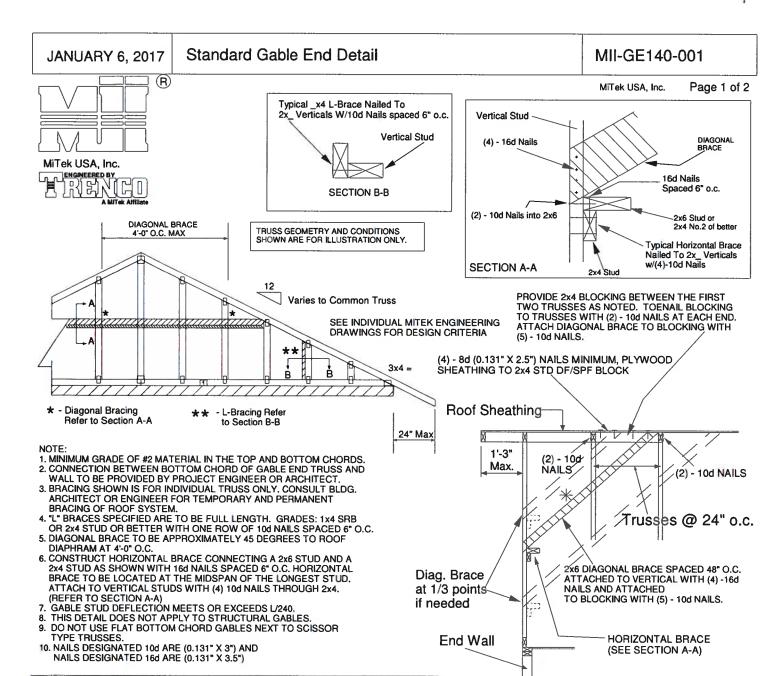
MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH ASCE 7-10 160 MPH

DURATION OF LOAD INCREASE: 1.60

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







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						
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

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

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE : 1.60

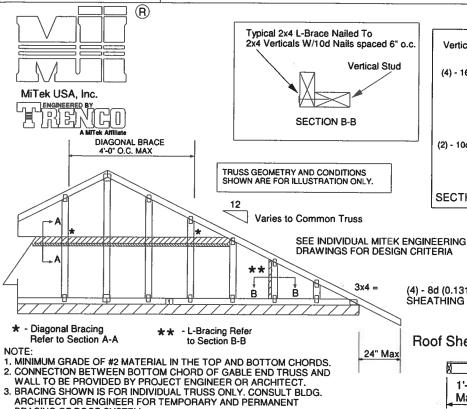
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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

Standard Gable End Detail

MII-GE170-D-SP



Page 1 of 2 MiTek USA, Inc. Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 6d 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

NAILS

BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3
OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
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

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 Shea	ıthing-
	×	M
	1'-0' Max	. ()
	/	
at 1	g. Brace /3 points eded	
	End Wall	
		8

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)

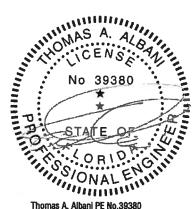
Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade		Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4		
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3		
2x4 SP No. 3 / Stud	24" O.C.	2-9-4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

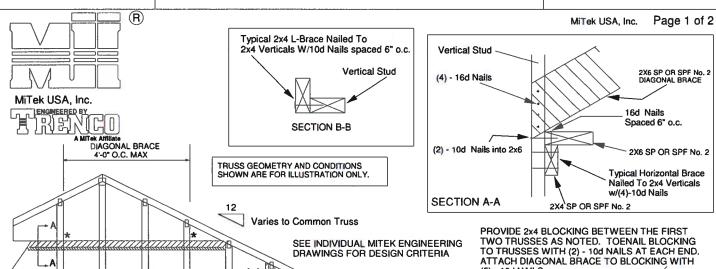
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



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-GE180-D-SP



3x4 =

24" Max

Diagonal Bracing Refer to Section A-A

** - L-Bracing Refer to Section B-B

**

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

2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C. DIAPHRAM AT 4-0" U.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")

Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
		Maximum Stud Length					
12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3			
16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7			
24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4			
12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1			
16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7			
24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9			
	12" O.C. 16" O.C. 24" O.C. 12" O.C. 16" O.C.	Spacing Brace 12" O.C. 3-7-12 16" O.C. 3-2-8 24" O.C. 2-7-7 12" O.C. 3-10-0 16" O.C. 3-5-13	Spacing Brace L-Brace Maximum St 12" O.C. 3-7-12 5-4-11 16" O.C. 3-2-8 4-8-1 24" O.C. 2-7-7 3-9-12 12" O.C. 3-10-0 5-4-11 16" O.C. 3-5-13 4-8-1	State Spacing Brace L-Brace BRACE Maximum Stud Length 12" O.C. 3-7-12 5-4-11 6-2-1 16" O.C. 3-2-8 4-8-1 6-2-1 24" O.C. 2-7-7 3-9-12 5-2-13 12" O.C. 3-10-0 5-4-11 6-2-1 16" O.C. 3-5-13 4-8-1 6-2-1			

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 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.

1'-0" (2) - 10d NAILS Max. (2) - 10d NAILS /Trusses @ 24" o.c. Diag. Brace at 1/3 points 2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH if needed (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS. HORIZONTAL BRACE End Wall (SEE SECTION A-A)

(5) - 10d NAILS.

Roof Sheathing

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



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

MiTek USA, Inc. Page 1 of 1

R

MiTek USA, Inc.

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

DURATION OF LOAD INCREASE: 1.60

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

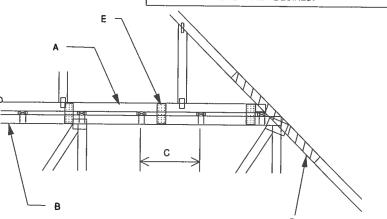
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) (0.131* X 3.5") TOE-NAILED.
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24* O.C.
 UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
 CONNECT TO BASE TRUSS WITH (2) (0.131* X 3.5") NAILS EACH.
 D 2 X ___ X 4*-0" SCAB, SIZE TO MATCH TOP CHORD OF
 PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED.
 ON INTERSECTION, WITH (2) ROWS OF (0.131* X 3") NAILS @ 4* O.C.
 SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
 IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH
 DIRECTIONS AND:
- IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:

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

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

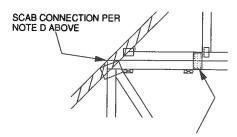
 E FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W. (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE.

 (AIN) 2 PAIDS OF BIL ATER DEC DECARDILESC OF STANLE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

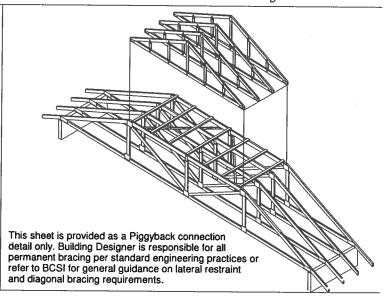


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

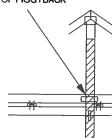
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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.) VENTIOR WESS OF FIGGERACK AND BASE THUSS.
 (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.

No 39380

STATE OF THE STATE OF

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

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.

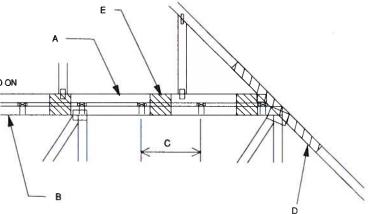


R

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

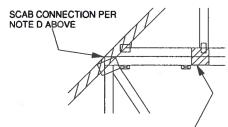
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131* X 3.5") NAILS EACH.
D - 2 X _ X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) ROWS OF (0.131* X 3") NAILS @ 4" O.C.
SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING
IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT, IN BOTH
DIRECTIONS AND:

1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM
PIGGYBACK SPAN OF 12 ft.
E - FOR WIND SPEED IN THE RANGE 126 MPH - 160 MPH
ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET
EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH
3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM
EACH SIDE (TOTAL - 12 NAILS)

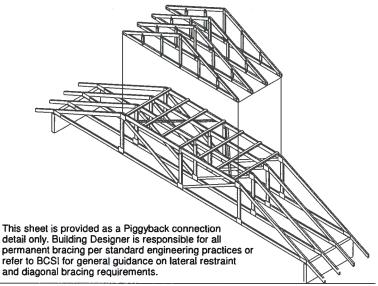


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

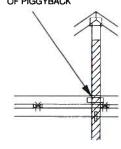
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



 7° x 7° x $1/2^{\circ}$ 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:

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.

GREATER TAIN 4000 LES.
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.



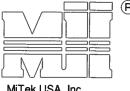
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

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

MII-REP01A1

MiTek USA, Inc.

Page 1 of 1



	Ţ		
MiTek US			
	37/	T,	

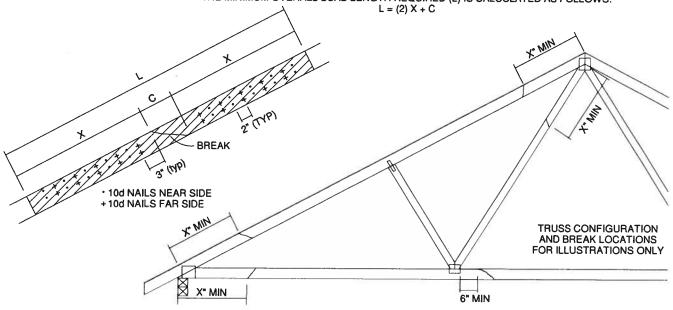
A MITek Affillate

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

* DIVIDE EQUALLY FRONT AND BACK

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

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS: $L=(2)\ X+C$



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

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

- 1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN, THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED SHALL BE INSPECTED TO VEHIFY THAT NO FUHTHER 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 LOSSIBLE OF THE CONSIDERTOR BY LATES AT THE INDICATE OF SILECTION.

- 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.



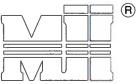
as A. Albani PE No.39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

LATERAL TOE-NAIL DETAIL

MII-TOENAIL_SP

MiTek USA, Inc.

Page 1 of 1



ek USA, .. Engineered by MiTek USA, Inc.

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

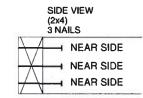
SIDE VIEW (2x3) 2 NAILS

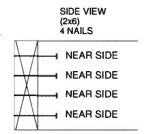
100	FOE-NAIL	SINGLE S	HEAR VA	LUES PEF	RNDS 200	1 (lb/nail)
	DIAM.	SP	DF	HF	SPF	SPF-S
O	.131	88.0	80.6	69.9	68.4	59.7
LONG	.135	93.5	85.6	74.2	72.6	63.4
.5. L	.162	108.8	99.6	86.4	84.5	73.8
က			Signatur			
9	.128	74.2	67.9	58.9	57.6	50.3
3.25" LONG	.131	75.9	69.5	60.3	59.0	51.1
ູ່ຊູ	.148	81.4	74.5	64.6	63.2	52.5
က						V

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

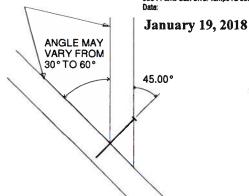
For load duration increase of 1.15: 3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

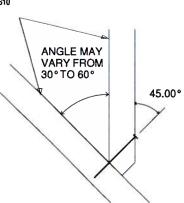


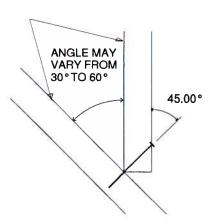




MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610





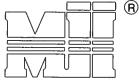


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

MiTek USA, Inc.

Page 1 of 1

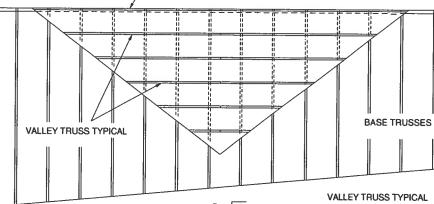


MiTek USA, Inc. ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

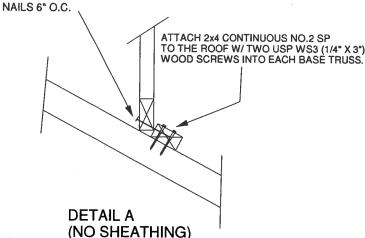
- 1. NAIL SIZE 10d (0.131" X 3")
 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS 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 OR GIRDER TRUSS 12 Р SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d

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** 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

STATE OF THE STATE OF

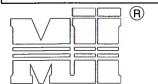
Thomas A. Albani PF No 39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

MiTek USA, Inc.

Page 1 of 1

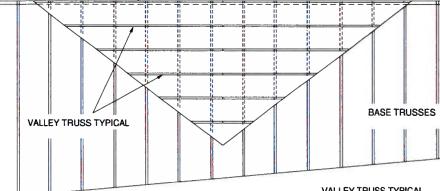


MiTek USA, Inc.

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

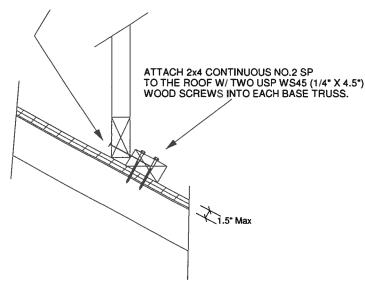
- 1. NAIL SIZE 10d (0.131" X 3") 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
- 4. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE TO BASE TRUSSES AS PER DETAIL A
- 5. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING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



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

ON THE TRUSSES

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



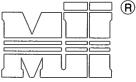
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)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



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

MiTek USA, Inc.

Page 1 of 1



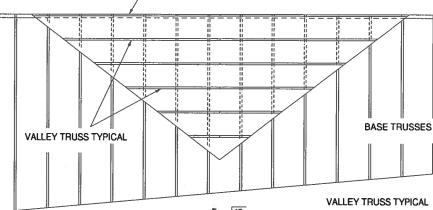
MiTek USA, Inc.

ENGINEERED B

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

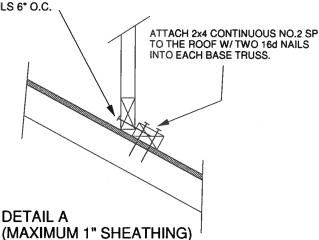
- 1. NAIL SIZE 16d (0.131" X 3.5") 2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING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



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

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

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** 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

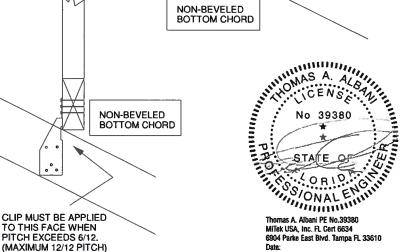


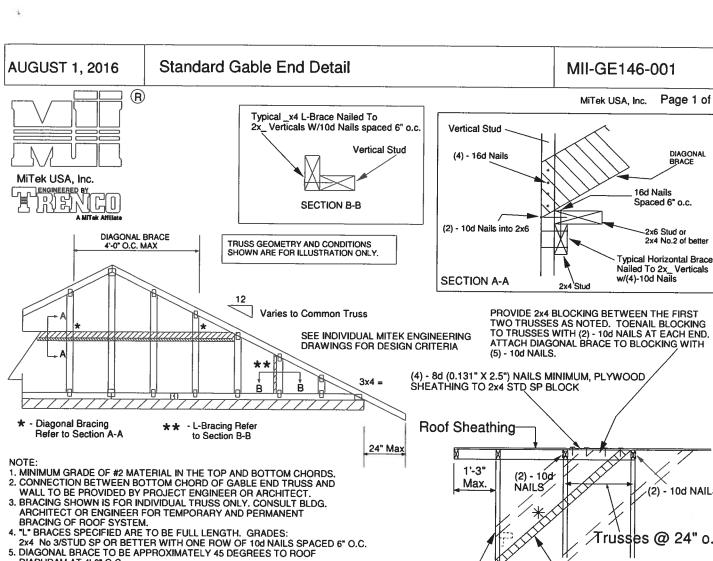
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

TRUSSED VALLEY SET DETAIL **MII-VALLEY AUGUST 1, 2016** (HIGH WIND VELOCITY) NOTE: VALLEY STUD SPACING NOT Page 1 of 1 (R)MiTek USA, Inc. TO EXCEED 48" O.C. SPACING MiTek USA, Inc. ENGINEERED 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) SUPPORTING TRUSSES DIRECTLY UNDER **VALLEY TRUSSES MUST BE DESIGNED** WITH A MAXIMUM UNBRACED LENGTH OF 2'-10" ON AFFECTED TOP CHORDS.

NOTES:

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





Diag. Brace

at 1/3 points

End Wall

if needed

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 DEFLECTIÓN 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.

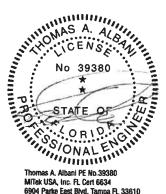
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	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	5-9-5	7-1-13	10-8-11		
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7		

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

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE: 1.60

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



Page 1 of 2

DIAGONAL BRACE

2x6 Stud or

2x4 No.2 of better

(2) - 10d NAILS

Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED 48" O.C.

ATTACHED TO VERTICAL WITH (4) -16d

HORIZONTAL BRACE

(SEE SECTION A-A)

TO BLOCKING WITH (5) - 10d NAILS.

NAILS AND ATTACHED

6904 Parke East Blvd. Tampa FL 33610

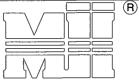
OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

Page 1 of 1



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

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

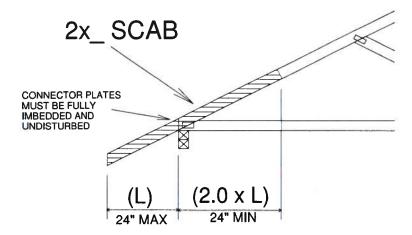
END BEARING CONDITION

NOTES:

1. ATTACH 2x_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH

AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

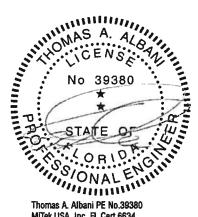
3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



IMPORTANT

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf. Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

(R)

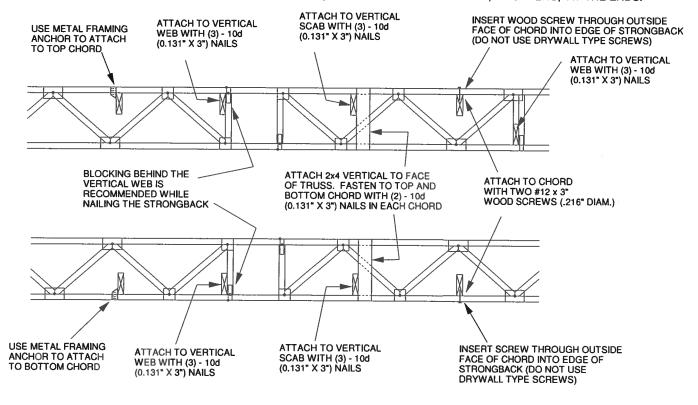
MiTek USA, Inc. ENGINEERED BY MHI MiTek USA, Inc.

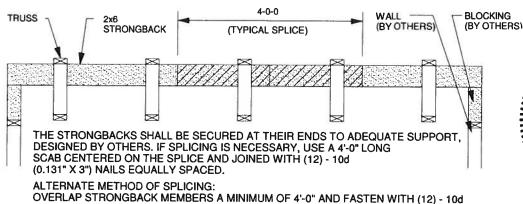
Page 1 of 1

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.





OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED. (TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

NO 39380

STATE

OR 10

STATE

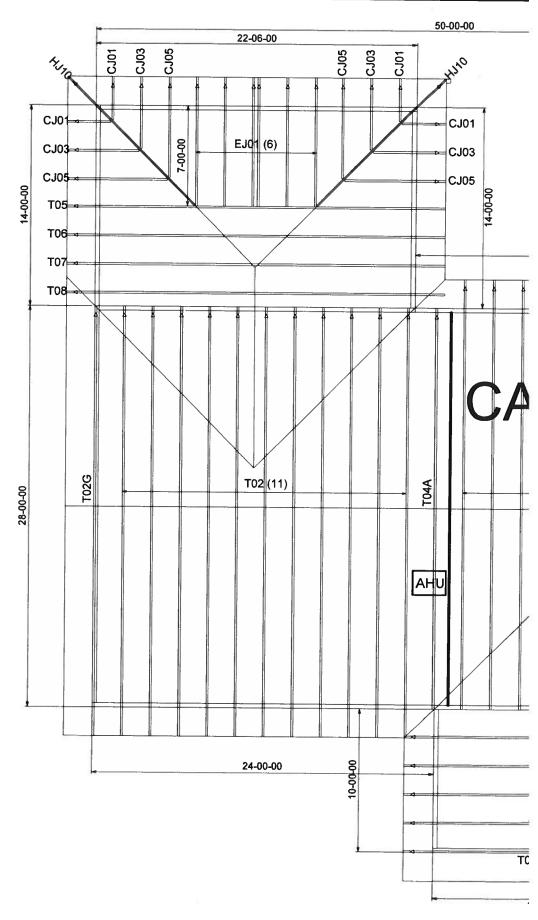
OR 10

Tas A. Albani PE No.3'

USA, Inc. FL Cerr

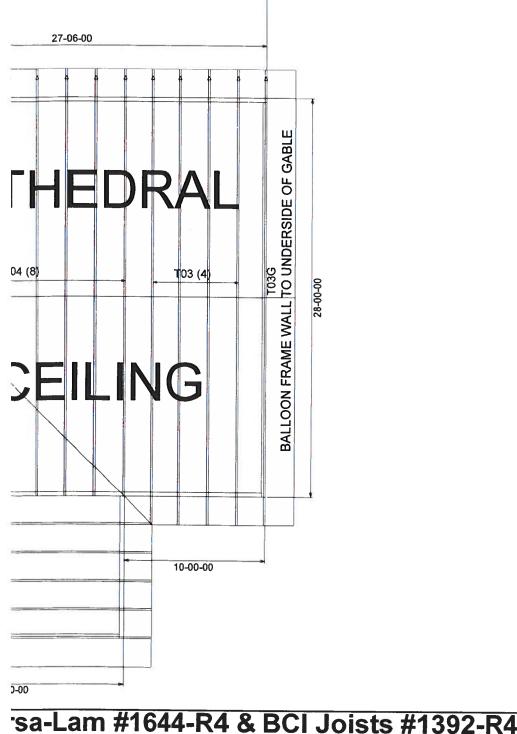
Tee East Blvd

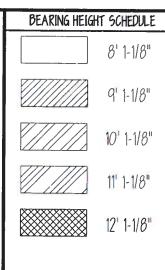
		6



FL Approval Codes - Mitek Plates #'s 2197.2 - 2197.4, V

5/12 PITCH 24" O/H





NOTES:

- REFER 10 HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING. REFER 10 ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
- ALL TRUSSES (INCLUDING TRUSSES UNDER YALLEY FRAMING) MUST DE COMPLETELY DECKED OR REFER TO DETAIL YIOS FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4.) ALL TRUSSES ARE DESIGNED FOR 2' O.C. MAXIMUM SPACING, UNLESS OTHERWISE NOTED
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED
- 6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7.) BEAMHEADER/LINTEL (HDR) 10 BE FURNISHED BY BUILDER.



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

Tampa PHONE: 813-621-9831 FAX: 813-628-8936

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

NORRIS CONST.

RATLIFF RES.

| Service | Control of the control of

2145911