Enailed Invoice - 4/7/20

Columbia County New Building Permit Application

For Office Use Only Application # 44768 Date F	Parajuad 2 19 By MG Parmit # 39.579
	X Land Use <u>E5A</u> Zoning 1-3
	ver Plans Examiner 7.5 Date 3-31-20
Comments	
NOC FEH Deed of PA Site Plan - State Road Info	Well letter = 911 Sheet - Parent Parcel #
□ Dev Permit # □ In Floodway □ Letter o	
□ Owner Builder Disclosure Statement □ Land Owner Affida	
Septic Permit No. 20-0222 OR City Water	Fax N/A
Applicant (Who will sign/pickup the permit) Kimmy Edgle	y Phone 386-752-0580
Address 320 SW Elk Hunter Glen, Fort White, FI	32038
Owners Name John R. & Ruby S. Nims	Phone 386-292-5409
911 Address 132 SW Auggie Marsh Glen, Fort Wh	ite, FI 32038
Contractors Name Edgley Construction/Doug Edgley	Phone 386-623-6652
Address 306 SW Main Street, Lake City, FI 32025	
Contractor Email kimmy@edgleyconstruction.com	*** Include to get updates on this job.
Fee Simple Owner Name & Address John & Ruby Nims	
Bonding Co. Name & Address N/A	
Architect/Engineer Name & Address Mark Disosway P.E., 163 S	W Midtown Place, Suite 103, Lake City, FI 32025
Mortgage Lenders Name & Address Annie Mac Home Mortgage,	1405 NW 13th Street, Suite B, Gainesville, FI 32601
Circle the correct power company FL Power & Light Cla	ay Elec. Suwannee Valley Elec. Duke Energy
Property ID Number 02-6S-15-00504-107	Estimated Construction Cost \$189,998.00
Subdivision Name Southland Trails Unr.	Lot 7 Block Unit Phase
Driving Directions from a Major Road Hwy 47 S, TR on Elim Church Rd, Straight on	
Construction of Residential Single Family	Commercial OR X Residential
Proposed Use/Occupancy Single Family	Number of Existing Dwellings on Property N/A
Is the Building Fire Sprinkled? If Yes, blueprints include	
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 98'	Side 505' Side 105' Rear 513'
Number of Stories 1 Heated Floor Area 1683	Total Floor Area 2601 Acreage 10.06
Zoning Applications applied for (Site & Development Plan, Spe	ecial 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.

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

<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.

<u>OWNERS CERTIFICATION:</u> 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.

John R. Nimi	John Let.	**Property owners <u>must sign</u> here <u>before</u> any permit will be issued.
Print Owners Name	Owners Signature	

<u>CONTRACTORS AFFIDAVIT:</u> 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.

10st 4gh	Contractor's License Numbe	CRC1330689	
Contractor's Signature	Columbia County Competency Card Number	44	
Affirmed under penalty of perjury to by the Contractor and	subscribed before me this <u>a</u>	day of March 2020	
Personally known or Produced Identification	SEAL:	ALICE BURKE PEELER Commission # GG 122000 Expires September 15, 2021	
State of Florida Notary Signature (For the Contractor)	OF FLOW	Bonded Thru Budget Notary Services	-

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

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # J	IOB NAME John 4 Ruby Nuns
------------------------	---------------------------

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

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

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

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

ELECTRICAL	Print Name Matthew H. Burns Signature	Need
ELECTRICAL		□ Liab
	Company Name: Matt Burns Electric Inc.	□ w/c
cc#309	License #: EC13006531 Phone #: 386-935-0444	□ EX
CC# 000		□ DE
MECHANICAL/	Print Name David E. Hall Signature	<u>Need</u> □ Lic
A/C	Company Name: David Hall's A/C & Heating Svc. Inc.	□ tiab □ w/c
_{CC#} 568	License #: CAC057424 Phone #: 386-755-9792	□ EX
		DE DE
PLUMBING/	Print Name Don Bills Signature A Sills	<u>Neeu</u> □ Lic
GAS L	Company Name: Hometown Plumbing Services LLC	🗅 Liab
<u> </u>		□ W/C
cc#_298	License #: CFC1428890 Phone #: 386-754-6140	D DE
ROOFING	Print Name Darin L. Summerlin Signature	Need
		□ Lic □ Liab
	Company Name: Summerlin Roofing Inc.	□ w/c
_{cc#} 534	License #: CCC1326192 Phone #: 386-288-5426	□ EX
		□ DE Need
SHEET METAL	Print Name Signature	☐ Lic
	Company Name:	□ Liab □ W/C
CC#	License H.	□ EX
- CC#	License #: Phone #:	⊒ DE
FIRE SYSTEM/	Print NameSignature	<u>Need</u> □ Lic
SPRINKLER	Company Name:	□ Liab
JOI MARKEEN L	Company Name.	□ W/C □ EX
CC#	License#: Phone #:	□ DE
SOLAR		Need
SOLAK	Print NameSignature	□ Lic
	Company Name:	□ Liab □ W/C
CC#		□ EX
	License #: Phone #:	□ DE
STATE	Print NameSignature	<u>Need</u> □ Lic
JIMIE	Print NameSignature	□ Liab
SPECIALTY	Company Name:	□ w/c
CC#	License #: Phone #:	□ EX
	r ruseuse w. Filling #:	□ DÉ

This Instrument Prepared by & return to:

Name:

Maria M. Landin, an employee of

Integrity Title Services, LLC

Address:

757 W. DUVAL STREET LAKE CITY, FL 32055

File No. 19-07075MML

Inst: 201912022827 Date: 10/01/2019 Time: 4:45PM Page 1 of 2 B: 1395 P: 1708, P.DeWitt Cason, Clerk of Court

Columbia, County, By: BD

Deputy ClerkDoc Stamp-Deed: 350.00

Parcel I.D. #: R00504-107

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORDING DATA

THIS WARRANTY DEED Made the 24 day of September, A.D. 2019, by CARMEN SPECTOR, / Carmen Spector INDIVIDUALLY AND AS TRUSTEE OF THE AMENDED AND RESTATED DECLARATION OF TRUST DATED FEBRUARY 16, 2017, CONVEYING NON-HOMESTEAD PROPERTY. having its principal place of business at 1141 PINE POINT, SINGER ISLAND, FL 33404, hereinafter called the grantor, to JOHN R. NIMS and FFS. NIMS, HIS WIFE, whose post office address is 194 SW VERNON WAY, LAKE CITY, FLORIDA 32024, hereihafter called the grantees:

(Wherever used berein the terms "grantor" and "grantees" include all the parties to this instrument, singular and plural, the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth: That the grantor, for and in consideration of the sum of \$10.00 and other valuable consideration. receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the grantees all that certain land situate in Columbia County, State of Florida, viz:

See Exhibit "A"

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 grantees that it is lawfully seized of said land in fee simple: that it has good right and lawful authority to sell and convey said land, and hereby fully 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 taxes accruing subsequent to December 31, 2019.

In Witness Whereof, the said grantor has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its proper officers thereunto duly authorized, the day and year first above written.

Signed sealed and delivered in the presence of:

Wilness Signature

TOSP

Printed Name

Witness Signature

KILOVED 6 **Printed Name**

CARMEN SPECTOR. INDIVIDUALLY TRUSTEE OF THE AMENDED AND RESTATED DECLARATION OF TRUST DATED FEBRUARY

16. 2017

LOT 7 A PARCEL OF LAND LYING IN SECTION 2, TOWNSHIP 6 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF THE WEST HALF OF SAID SECTION 2: THENCE RUN SOUTH 01 DEGREES 05'04" EAST FOR A DISTANCE OF 1992.47 FEET TO A SET 1/2" IRON ROD STAMPED LB 6894; THENCE RUN SOUTH 88 DEGREES 31'14" WEST FOR A DISTANCE OF 661.40 FEET TO A SET 1/2" IRON ROD, STAMPED LB 6894 AND THE POINT OF BEGINNING: THENCE RUN SOUTH 01 DEGREES 05'11" EAST FOR A DISTANCE OF 662.96 FEET TO A SET 1/2" IRON ROD, STAMPED LB 6894; THENCE RUN SOUTH 88 DEGREES 31'14" WEST FOR A DISTANCE OF 661.43 FEET TO A SET 1/2"-IRON ROD. STAMPED LB 6894; THENCE RUN NORTH 01 DEGREES 05'11" WEST FOR A DISTANCE OF 662.96 FEET TO A SET 1/2" IRON ROD, STAMPED LB 6894; THENCE RUN NORTH 88 DEGREES 31'14" EAST FOR A DISTANCE OF 661.43 FEET TO THE POINT OF BEGINNING. SUBJECT TO AND TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS AND PUBLIC UTILITIES BEING MORE PARTICULAR DESCRIBED AS FOLLOWS: COMMENCE AT THE NORTHEAST CORNER OF THE WEST HALF OF SAID SECTION 2: THENCE SOUTH 01 DEGREES 05'06" EAST FOR A DISTANCE OF 3988.43 FEET TO A CONCRETE MONUMENT, STAMPED LB 2392; THENCE SOUTH 88 DEGREES 39'46" WEST FOR A DISTANCE OF 1322.79 FEET TO A CONCRETE MONUMENT, STAMPED LB 2392 AND THE POINT OF BEGINNING: THENCE SOUTH 88 DEGREES 54'49" WEST FOR A DISTANCE OF 30.00 FEET: THENCE NORTH 01 DEGREES 0511" WEST FOR A DISTANCE OF 636.12 FEET: THENCE SOUTH 88 DEGREES 31'14" WEST FOR A DISTANCE OF 636.06 FEET: THENCE NORTH 01 DEGREES 05'11" WEST FOR A DISTANCE OF 60.00 FEET: THENCE NORTH 88 DEGREES 31'14" EAST FOR A DISTANCE OF 636.06 FEET; THENCE NORTH 01 DEGREES 05'11" WEST FOR A DISTANCE OF 1266.35 FEET; THENCE SOUTH 88 DEGREES 31'14" WEST FOR A DISTANCE OF 636.06 FEET: THENCE NORTH 01 DEGREES 05'11" WEST FOR A DISTANCE OF 60.00 FEET; THENCE NORTH 88 DEGREES 31'14" EAST FOR A DISTANCE OF 1327.48 FEET; THENCE SOUTH 01 DEGREES 05'11" EAST FOR A DISTANCE OF 60.00 FEET; THENCE SOUTH 88 DEGREES 31'14" WEST FOR A DISTANCE OF 631.43 FEET; THENCE SOUTH 01 DEGREES 05'11" EAST FOR A DISTANCE OF 1266.35 FEET; THENCE NORTH 88 DEGREES 31°14" EAST-FOR A DISTANCE OF 631-43-FEET: THENCE SOUTH 01 DEGREES 05'11" EAST FOR A DISTANCE OF 60.00 FEET; THENCE SOUTH 88 DEGREES 31'14" WEST FOR A DISTANCE OF 631.43 FEET; THENCE SOUTH 01 DEGREES 05'11" EAST FOR A DISTANCE OF 606.40 FEET; THENCE NORTH 88 DEGREES 39'46" EAST FOR A DISTANCE OF 30.00 FEET; THENCE SOUTH 01 DEGREES 04'52" EAST FOR A DISTANCE OF 1337.83 FEET TO THE NORTH RIGHT-OF-WAY LINE OF OLD BELLAMY ROAD (60' R/W); THENCE ALONG SAID RIGHT-OF-WAY LINE SOUTH 87 DEGREES 54'25" WEST FOR A DISTANCE OF 59.86 FEET; THENCE NORTH 01 DEGREES 05'16" WEST FOR A DISTANCE OF 1308.62 FEET TO THE POINT OF BEGINNING.

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 O COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued:

2/4/2020 10:19:28 PM

Address:

132 SW AUGGIE MARSH Gln

City:

FORT WHITE

State:

FL

Zip Code

32038

Parcel ID

00504-107

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

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

DATE 3-18-2020

CUSTOMER JOHN AND RUBY NIMS

LOCATION 132 SW AUGGIE MARSH GLEN FORT WHITE FL 32038

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

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

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

THANK YOU Perfrance

NOT RESPONSIBLE FOR THE QUALITY OF WATER

Columbia County Property Appraiser

Jeff Hampton

Parcel: << 02-6S-15-00504-107 >>

Owner & Pi	roperty Info		Result: 1 of 1	
Owner	NIMS JOHN R & RUBY S NIMS 194 SW VERNON WAY LAKE CITY, FL 32024			
Site	AUGGIE MARSH GLN, FORT WHITE			
Description*	(AKA LOT 7 SOUTHLAND W1/2, RUN S 1992.47 FT, V FT, W 661.43 FT, N 662.96 2541, WD 1014-1456, WD	V 661.40 FT FOR PO FT, E 661.43 FT TO P	B, RUN S 652.96 OB. WD 1011-	
Area	10.06 AC	S/T/R	02-68-15	
Use Code**	VACANT (000000)	Tax District	3	

*The <u>Description</u> 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 & Ass	essment Values		
2019 Cert	ified Values	2020 Wor	king Values
Mkt Land (1)	\$35,210	Mkt Land (1)	\$35,210
Ag Land (0)	\$0	Ag Land (0)	\$0
Building (0)	\$0	Building (0)	\$0
XFOB (0)	\$0	XFOB (0)	\$0
Just	\$35,210	Just	\$35,210
Class	\$0	Class	\$0
Appraised	\$35,210	Appraised	\$35,210
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$35,210	Assessed	\$35,210
Exempt	\$0	Exempt	\$0
	county:\$35,210		county:\$35,210
Total	city:\$35,210	Total	city:\$35,210
Taxable	other:\$35,210	Taxable	other:\$35,210
	school:\$35,210		school:\$35,210

Aerial Viewer Pictometery Google Maps 2005 V Sales 2019 2016 2013 2010 2007 SW AUGGIE MARSH GIR

2020 Working Values updated: 3/9/2020

•	Sales	History
---	-------	---------

ales i listery						
Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
6/16/2017	\$100	1340/2325	WD	V	U	11
3/31/2004	\$34,900	1011/2541	WD	V	Q	

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 Breakdown

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
000000	VAC RES (MKT)	10.060 AC	1.00/1.00 1.00/1.00	\$3,500	\$35,210

Search Result: 1 of 1

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

by: Grizzlyllagic.com

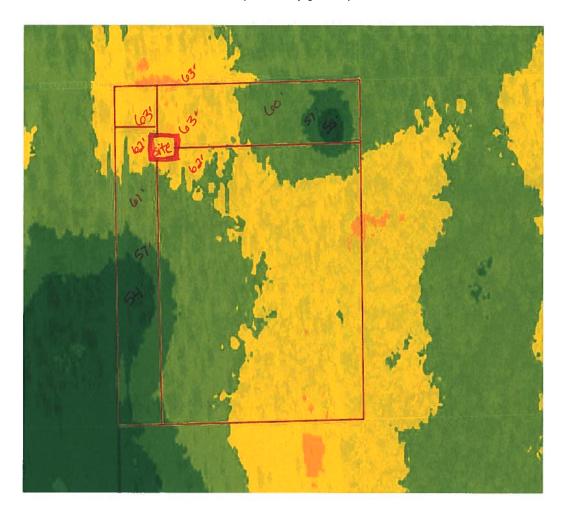
Legend

2018Aerials

LidarElevations

Columbia County, FLA - Building & Zoning Property Map

Printed: Mon Mar 23 2020 08:43:32 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 02-6S-15-00504-107

Owner: NIMS JOHN R &

Subdivision: SOUTHLAND TRAILS UNR

Lot: 7

Acres: 10.0940542
Deed Acres: 10.06 Ac
District: District 2 Rocky Ford

Future Land Uses: Environmentally Sensitive Areas -1

Flood Zones:

Official Zoning Atlas: A-3

Lake City Limits
SRWMD Wetlands

Application 44768



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

PERMIT #: 12-SC-2049492

APPLICATION #: AP1474658

DATE PAID: 3/19/20

RECEIPT #:_

DOCUMENT #: PR1319138

CONSTRUCTION PERMIT FOR: OSTDS New
APPLICANT: JOHN"20-0222 NIMS
PROPERTY ADDRESS: AUGGIE MARSH GIn Fort White, FL 32038
LOT: 7 BLOCK: SUBDIVISION:
PROPERTY ID #: 00504-107 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER] [OR TAX ID NUMBER]
SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.
SYSTEM DESIGN AND SPECIFICATIONS T [900] GALLONS / GPD
D [375] SQUARE FEET Drainfield SYSTEM R [] SQUARE FEET N/A SYSTEM A TYPE SYSTEM: [X] STANDARD [] FILLED [] MOUND [] I CONFIGURATION: [X] TRENCH [] BED []
F LOCATION OF BENCHMARK: Nail Wribbon in oak W. of site. I ELEVATION OF PROPOSED SYSTEM SITE [12.00] [INCHES FT] [ABOVE BELOW] BENCHMARK/REFERENCE POINT E BOTTOM OF DRAINFIELD TO BE [42.00] [INCHES FT] [ABOVE BELOW] BENCHMARK/REFERENCE POINT D FILL REQUIRED: [0.00] INCHES
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [0.00] INCHES The system is sized for 3 bedrooms with a maximum occupancy of 6 persons (2 per bedroom), for a total estimated flow of THE REQUIRED: [0.00] INCHES
SPECIFICATIONS BY: WILLIAM D BISHOP TITLE: SA0890009; SM0081587
APPROVED BY: Dustin W Jones DATE ISSUED: 03/20/2020 DATE ISSUED: DA
DH 4016 08/09 (Obsoletes all previous editions which may not be used) Incorporated: 64E-6.003, FAC Page 1 of 3
V 1 1.4 AP1471658 SE1268576

STATE OF FLORIDA **DEPARTMENT OF HEALTH**

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

	Pe	ermit Application Number	20-022
Nims	PART II - SITEPLAI	N	
Scale: 1 inch = 40 feet	NOT ACTUAL.	210'	
	Weil WILLESS SO. FT ST. Agi	84'	\$M 310,
Notes:	SW AUSSI	E MARSH GLN.	
LACRE OF 10	.OLP		
Site Plan submitted by:_	William An Biokop TE	MASTEE	CONTRACTOR
Plan Approved	Not Approved	net Det	CONTRACTOR B 318120
Sy/	Tolk		y Health Department
1	ANGES MUST BE APPROVED BY THE CO	UNTY HEALTH DEPARTN	(Ze/ZC)
0H 4015, 08/09 (Obsoletes previo	us editions which may not be used) Incorporated: 64E-6.00	1, FAC	Pene 2 of 4

Items to Include-Each Box shall be

Circled as

Applicable
Select From Drop down

No

NA



COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

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

AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

all building plans must indicate compliance with the current florida building codes residential and the national electrical code. All plans or drawings shall provide calculations and details that have the seal and signature of a certified architect or engineer registered in the state of florida, or alternate methodologies, approved by the state of florida building commission for one-and-two family dwellings, FBC 1609.3.1 thru 1609.3.3.

For Design Purposes the following basic wind speeds are per florida building code figure 1609-a Through 1609-C ultimate design wind speeds for risk category and buildings and other structures Revised 7/1/18

Total (Sq. Ft.) under roof 2601

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

GENERAL REQUIREMENTS:

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

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

1683

Condition space (Sq. Ft.)

Dε	signers name and signature shall be on all documents and a licensed architect or engineer, signature an	d official	embossed	seal
sha	all be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL 10	07.1.		
Si	te Plan information including:			
4		- 4		
5	Dimensions of all building set backs	- 1/	A	
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed			
	well and septic tank and all utility easements.	- 1		
7	Provide a full legal description of property. Wastanty Deed	. –		F4.1
	,		······································	
W	ind-load Engineering Summary, calculations and any details are required.			
	GENERAL REQUIREMENTS:	Item:	to Includ	ie-
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each	Box shall	be
		C	ircled as	
		App	licable	- 1
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA
_		Select Fro	m Drop	down
9	Basic wind speed (3-second gust), miles per hour	- 4		
10	(Wind exposure – if more than one wind exposure	. 4	-	
71 7	is used, the wind exposure and applicable wind direction shall be indicated)			
11	Wind importance factor and nature of occupancy	- 1		
12				
11 Z	The state of the s			
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,	1	_	
13	cladding materials not specifally designed by the registered design professional.			
TER	evations Drawing including:	<u> </u>		
14		7		
15	Roof pitch			+
16	Overhang dimensions and detail with attic ventilation		1	
17	Location, size and height above roof of chimneys	- 1		+
18	Location, size and neight above roof of chimneys Location and size of skylights with Florida Product Approval		+	1
19	Number of stories		+	
20	Building height from the established grade to the roofs highest peak	L	-	
20	Drinning height from the egraphaten Brane to the toors manest heav	Table Control of the Control	L	
				1

	FI oor Pl an Including:			
	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches,	- 4		
21	deck_ balconies			
22	Raised floor surfaces located more than 30 inches above the floor or grade	- 4		
23	All exterior and interior shear walls indicated			
24	Shear wall opening shown (Windows, Doors and Garage doors)			
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each	į		
	bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the			
l	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.			
26		- 1/	x	
-	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth			
27	(see chanter 10 and chapter 24 of FBCR)			1
	(NO ESE Place.)	_		
28	(see chapter 10 and chapter 24 of FBCR) No Fire Place Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails			
		-		-
29	Identify accessibility of bathroom (see FBCR SECTION 320)	- 1	-	
J				
AT	l materials placed within opening or onto/into exterior walls, soffits or roofs shall	have F	orida	produc
	proval number and mfg. installation information submitted with the plans			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
_	(
(5€	e Florida product approval form)			
		74		
	GENERAL REQUIREMENTS:		to Inc	
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Box sh	
			ircled a	
		A	pplicab	le
-				
IL R	CR 403: Foundation Plans	0.1.		. ,
<u> </u>		Select	From L	rop dow
30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size	- 4		
-	and type of reinforcing.			
31		- 6-	Ţ	
32	Any special support required by soil analysis such as piling.			Canada
33	Assumed load-bearing valve of soil 386-752-058(Pound Per Square Foot 1500	- 600	T	
34	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structu	ıres		
	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.	- 6		
	Per the National Electrical Code article 250.52.3			
· ACCRECATE	CR 506: CONCRETE SLAB ON GRADE			·,
	Show Vapor retarder (6mil. Polyethylene with 'pints la est 6 inches and sealed)	- 6	†	
36	Show control j oints, synthetic fiber reinforcement or welded fire fabric reinforcement and Sports	- 6	<u> </u>	
FB	CR 318: PROTECTION AGAINST TERMITES			
	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or		T	1
	la company and the second of t	1.1	+	
37	termiticides / Transfer Sol 64/34/5/46			
-	(154) 384 115 3846		1	
non	200 606. Mananer Walls and Story weeks the 2 housing O Land W W.			
	3CR 606: Masonry Walls and Stem walls (load bearing & shear Walls)			
	Show all materials making up walls, wall height, and Block size, mortar type Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement wood From		 	
	I Show all tintal cizes time chans and tip-heam cizes and spacing of reinforcement 1 1000 / 5-18-		1	

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

Floc	or Framing System: First and/or second story				
-	Floor truss package shall including layout and details, signed and sealed by Florida Registered	-			
	m C 1 1 Paralmonn	-			,
	Professional Engineer Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,	-			
40	etern wells and/or priers	1-			ham
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	-			·
43	Attachment of joist to girder				Lann
44	Wind load requirements where applicable				1
45	Show required under-floor crawl space				1
46	Show required amount of ventilation opening for under-floor spaces				- land
47	Show required covering of ventilation opening	- -			P. march
48	Show the required access opening to access to under-floor spaces				
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &	_	.		1
49	intermediate of the areas structural panel sheathing				
50	Show Draftstopping, Fire caulking and Fire blocking				
51	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	=			1000
52	Provide live and dead load rating of floor framing systems (psf).		<u> </u>		
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION		Vitama 4	o Inclu	do
	CHAPTER VIOLE COLLEGE VIOLE COLLEGE VIOLE	t		ox shal	
	GENERAL REQUIREMENTS: APPLICANT PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			cled as	
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOALS DEFORE SODIMIT TAD			plicable	
		-			a the state of the same of
		elec	l iron	ı wro	p dow
53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls		-		ļ
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown	-			ļ
	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural		ل ،		
55	members, showing fastener schedule attachment on the edges & intermediate of the areas structural	-			ul
	panel sheathing				
	Show all required connectors with a max uplift rating and required number of connectors and	1	A maren		
56		-			
	rafter systems				1
	Show sizes, type, span lengths and required number of support jack studs, king studs for	-	لسرا	-	- 22
57	shear wall opening and girder or header per FBC-R602.7.	<u> </u>		<u> </u>	ļ
58	Indicate where pressure treated wood will be placed		-	<u> </u>	
	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural	_	1	<u> </u>	
59	panel sheathing edges & intermediate areas			MT)	
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	_	المتعنيا		L
	Address of the representative of the first section of the section				
FI	BCR :ROOF SYSTEMS:		7927		
61	Truss design drawing shall meet section FBC-R 802.10. I Wood trusses	-	سسا		
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	-	Parameter .		
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	<u> </u>	- Sinteren		
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details		The state of the s		
65	<u>. </u>] -	Carried State		
		u.S., ₂ , ₂ , ₂ , ₃			
IF	BCR 802:Conventional Roof Framing Layout				
	Rafter and ridge beams sizes, span, species and spacing	T -	Line		T
67		1-			†
	Valley framing and support details	+-			1
		+-	-		+
69	Provide dead load rating of ratio system				
ਜਨ'	TO COLD ON TO CHUE A THURSO				
-	BCR 803 ROOF SHEATHING			1_	
70	•	-	1		
	sheathing, grade, thickness	+-		 	
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	-		1	1

R	OOF ASSEMBLIES FRC Chapter 9			
72		1. /	7	
73			-	
Re	BCR Chapter 11 Energy Efficiency Code for Residential Building sidential construction shall comply with this code by using the following compliance methods in the	FBCR Chap	ter 11 F	Residential
Ųμ	numgs compliance methods. I wo of the required forms are to be submitted All 100 1 1 1 As an also			
CU	impliance Welnoa A, the Allernale Residential Point System Method hand calculation. Alternate Form	. 6004	L	3 477
me	nuirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings comply	ving by this i	alternat	ive shall
be	et all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Poi acceptable for code compliance.	int System M	lethod s	hall not
	, and the same companion of the same control o			
		74	A - V - 1	
	GENERAL REQUIREMENTS:	1	to Inclu Box sha	
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	7.00	ircled as	
		1	plicabl	
		Select fron		
74	1 one with institution it value for the following areas of the structure	1- 1	T	John
75				
77	R /	- V		-
	Crawl space Concrete tloor	-		1
H	VAC information			
78			The second second second	
79	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or	- 6		
	20 cm continuous required Shello and Alice Alexander	- 1		
80	Show clothes dryer route and total run of exhaust duct	1		-
DI		1- 6		
81	umbing Fixture layout shown			
82	All fixtures waste water lines shall be shown on the foundation and Show the location of water heater	-		
-02	1 Show the location of water neater	-		
Pr	ivate Potable Water			
83	Pump motor horse power			
84	Reservoir pressure tank gallon capacity	- /		
85	Rating of cycle stop valve if used	- /		
	261	-		
KI	ectrical layout shown including			
86 87	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	- 1		
6/	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected			
88	by Ground-Paul Chical Interrupter (Chica) Article 710 9 A	- book	ļ	
89	Show the location of smoke detectors & Carbon monoxide detectors Show service panel, sub-panel, location(s) and total ampere ratings 200 Bmp	- 1		
	one was vice paner, sub-paner, location(s) and total ampere ratings 200 Amp	- 1		
	On the electrical plans identify the electrical service overcurrent protection device for the main			
	orded tout sol vice. This ucvice shall be installed on the exterior of office the contract of		İ	
90	disconnecting means for the utility company electrical cervice. Conductors and from the			
	Cideo micetals in a panci of sun name, chair have tour wire conductors a Continue		I	•
	To reduce shall be used as all equipment profind. Indicate if the utility company coming any company		i	
	cable will be of the overhead or underground type. Under 6-round	L		
	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			
OI	A - 12	_	1	1

91 Appliances and HVAC equipment and disconnects

92 Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by

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

Notice Of Commencement:

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

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

1	TEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT:	Select from	Drop	down
93	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	-		
94	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	- 6		
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	- 1		
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	1-		I records to
97	Toilet facilities shall be provided for all construction sites	- 125000	1	
98	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			
99	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municipale com)	-		The state of the s
100	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letter is required.	. -		
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.0	0 -		lanner or
102	an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	- 6	de de la companie de des de la companie de la compa	
103	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.	-4		

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.

Disclosure Statement for Owner Builders:

If you as the Applicant will be acting as your own contractor or owner/builder under section 489.103(7) Florida Statutes, you must submit the required notarized Owner Builder Disclosure Statement form.

**This form can be printed from the Columbia County Website on the Building and Zoning page under Documents. Web address is - http://www.columbiacountyfla.com/BuildingandZoning.asp

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

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

Permit intent.

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

If work has commenced.

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

New Permit.

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

Work Shall Be:

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

The Fee:

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

Notification:

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

Jon Ruby Runs

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
L EXTERIOR DOORS			FL4904-R5
A. SWINGING	MASONITE	INSWING & OUTSWING STEEL	FL4904-NO
B, SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
z. WINDOWS			FL 12250-R10
A. SINGLE/DOUBLE HUNG	MI	VINYL 3540 SINGLE HUNG	FL 12230-1(10
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL	CERTAINTEED	WEATHERBOARD FIBER CEMENT	FL3148-R4
A. SIDING		ALUM	RL16503
B. SOFFITS	KAYCAN	ALOW	
C. STOREFRONTS	D. 110.10	UNDERLAYMENT	FL15216
D. GLASS BLOCK	RHINO	ONDERENTMENT	
E. OTHER			
4. ROOFING PRODUCTS			EL 5444
A. ASPHALT SHINGLES	CERTAINTEED	ARCH SHINGLES	FL 5444
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			FL1814-R6
E. OTHER	WOODLAND	#30 ROOFING FELT	FL1014-N0
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

NOTES:	_

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include:

	This checklist
	A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater).
	Energy Performance Level (EPL) Display Card (one page)
	HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
	Mandatory Requirements (five pages)
Req	uired 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: 190997 Nims		Builder Name: Edgley Construction	
Street:		Permit Office:	
City, State, Zip: , FL , Owner: John & Ruby Nims		Permit Number: Jurisdiction:	
Design Location: FL, Gainesville		County: Columbia (Florida Clima	ite Zone 2)
New construction or existing	New (From Plans)	9. Wall Types (1512.0 sqft.)	Insulation Area
Single family or multiple family	Single-family	a. Frame - Wood, Exterior b. N/A	R=13.0 1512.00 ft²
Number of units, if multiple family	1	c. N/A	R= ft² R= ft²
4. Number of Bedrooms	3	d. N/A	R= ft²
5. Is this a worst case?	Yes	10. Ceiling Types (1861.0 sqft.) a. Under Attic (Vented)	Insulation Area R=38.0 1729.00 ft²
6. Conditioned floor area above grade (ft²)	1683	b. Knee Wall (Vented)	R=30.0 132.00 ft ²
Conditioned floor area below grade (ft²)	0	c. N/A	R= ft²
7. Windows(196.0 sqft.) Description	Area	11. Ducts a. Sup: Attic, Ret: Attic, AH: Main	R ft ² 6 336.6
a. U-Factor: Dbl, U=0.30	196.00 ft²		0 000.0
SHGC: SHGC=0.20	69	12. Cooling systems	kBtu/hr Efficiency
b. U-Factor: N/A SHGC:	ft²	a. Central Unit	29.0 SEER:15.00
c. U-Factor: N/A	ft²		
SHGC:		13. Heating systems	kBtu/hr Efficiency
d. U-Factor: N/A SHGC:	ft²	a. Electric Heat Pump	29.0 HSPF:8.80
Area Weighted Average Overhang Depth:	9.493 ft.		
Area Weighted Average SHGC:	0.200	14. Hot water systems	
8. Floor Types (1683.0 sqft.) Ins	sulation Area	a. Electric	Cap: 50 gallons EF: 0.950
	=0.0 1683.00 ft ²	b. Conservation features	EF. 0.950
b. N/A R=		None	
c. N/A R=	= ft²	15. Credits	Pstat
	Total Proposed Modifie	d Loads: 48.31	D.4.0.0
Glass/Floor Area: 0.116	Total Baseline		PASS
	Total Dascillic	LOGGS. 43.24	
I hereby certify that the plans and specification and specification are in appellance with the		Review of the plans and	OF THE STATE
this calculation are in compliance with the Code.	Florida Energy	specifications covered by this calculation indicates compliance	
Evan Beamsley		with the Florida Energy Code.	5
I PREPARED BY:	***************************************	Before construction is completed	B COLUMN TO SERVICE SE
DATE: 2019-09-23		this building will be inspected for	O D
A bear by a said of the first of the said		compliance with Section 553.908 Florida Statutes.	
I hereby certify that this building, as design with the Florida Energy Code.	nea, is in compliance	i ionaa otatutos.	GOD WE TRUE
•			O WE INDE
OWNER/AGENT: DATE:		BUILDING OFFICIAL:	
DATE.		DATE:	

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT

				PROJEC	T						
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	190997 Nims User John & Ruby Nims 1 Edgley Construction Single-family New (From Plans)	n	Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Venti Whole Hous	s: 1 e: Yele: 1: ilation:	683 es 35		Lot # Block PlatB Stree Coun	:/Subdivisio ook: t:		Address	;
				CLIMAT	E					_	
	sign Location Gainesville F	TMY Site	REGI	Desi 97.5			esign Temper Summ		Days N	Design Noisture	Daily Temp Range Medium
				BLOCKS							Wicalani
Number	Name	Area	Volume	BLOCK							
1	Block1	1683	16493.4	1				<u>_</u>			
				SPACES							
Number	Name	Area	Volume K		ccupants	Bedroo	ms Ir	nfil ID Fir	nished	Cooled	Heate
1	Main	1683	16493.4	Yes	6	3	1			Yes	Yes
				FLOORS	 3						
√ #	Floor Type	Space	Perim	neter R	-Value	Area			Tile	Wood	l Carpet
1 Sla	ab-On-Grade Edge Ins	sulatio Ma	in 168	ft	0	1683 ft²			0.3		0.4
		····		ROOF							
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA E Tested			eck Pitch
1	Gable or shed C	omposition shingl	es 1949 ft²	492 ft²	Dark	N	0.92	No	0.9	No	0 30.3
				ATTIC							
√ #	Туре	Ventila	tion	Vent Ratio (1 in)	Area	RBS	IRCC	;		
1	Full attic	Vente	ed	300		1683 ft²	N	N			·
				CEILING	;						
√ #	Ceiling Type		Space	R-Value	ins Ty	<i>r</i> ре	Area	Framing	g Frac	Truss Ty	/pe
1	Under Attic (Vente		Main	38	Blown		1729 ft²	0		Wood	
2	Knee Wall (Vented	1)	Main	30	Batt		132 ft²	0.1	1	Wood	

FORM R405-2017	INPUT SUMMARY CHECKLIST REPORT

JKM F	₹405	-2017		INPUT	SUMMA	ARY CHE	ECKL	<u>IST R</u>	EPOR1					
						W	ALLS							
V #	Orr	Adjace		Туре	Spac	Cavity	Wid		Height	Area	Sheathi	ing Framing	Solar Absor	Below
1		SE Exterior		me - Wood	Mair		51		9	459.0 ft ²		0.23	Absor. 0.75	Grade ^c 0
2	E=>	SW Exterior	Fra	me - Wood	Mair	13	33		9	297.0 ft²		0.23	0.75	0
3	S=>	NW Exterior	Fra	me - Wood	Mair	13	51	0	9	459.0 ft²		0.23	0.75	0
4	W=>	NE Exterior	Fra	me - Wood	Mair	13	33		9	297.0 ft²		0.23	0.75	0
		<u>-</u>				DO	ORS		-					
$\sqrt{}$	#	Om	t	Door Type	Space			Storms	U-Val	ue Fi	Width t In	Heigh Ft	nt In	Area
	. 1	N=>S	E .	Insulated	Main			None	.4	2		6	8 1	3.3 ft²
	2	N=>S	E	Insulated	Main			None	.4	2		6	8 1	3.3 ft²
	3	S=>N	W	Insulated	Main			None	.4	2		6	8 1	3.3 ft²
				Orientation	s shows is th	WIN ne entered or	DOWS		anged to M	loret Casa			-	
,		Wall		Offeritation	1 SHOWIT IS U	ie entered or	ieritation	(/) Cite	inged to vv		rhang			
\checkmark	#	Omt ID	Frame	Panes	NFRC	U-Factor	SHGC	lmp	Area		Separatio	n Int Sh	ade :	Screenii
	1	N=>SE 1	Metal	Low-E Double	Yes	0.3	0.2	N	16.0 ft²	11 ft 6 in	1 ft 0 in	Nor		None
	2	N=>SE 1	Metal	Low-E Double	Yes	0.3	0.2	N	6.7 ft ²	11 ft 6 in	1 ft 0 in	Nor	ıe	None
	3	N=>SE 1	Metal	Low-E Double	Yes	0.3	0.2	N	26.7 ft²	11 ft 6 in	1 ft 0 in	Nor	ie	None
	4	N=>SE 1	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft²	11 ft 6 in	1 ft 0 in	Nor	ie	None
	5	S=>NW 3	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft ²	9 ft 6 in	1 ft 0 in	Nor	ie	None
	6	S=>NW 3	Metal	Low-E Double	Yes	0.3	0.2	N	60.0 ft ²	9 ft 6 in	1 ft 0 in	Nor	ie	None
	7	S=>NW 3	Metal	Low-E Double	Yes	0.3	0.2	N	6.7 ft ²	9 ft 6 in	1 ft 0 in	Nor	e	None
	8	W=>NE 4	Metal	Low-E Double	Yes	0.3	0.2	N	20.0 ft²	1 ft 6 in	9 ft 0 in	Nor	e	None
						INFILT	RATIC	N						
# :	Scope	N	/lethod		SLA	CFM 50	ELA	E	qLA	ACH	A	CH 50		
1 Wh	olehou	ise Prop	osed AC	CH(50) .00	00436	1924.2	105.64	19	98.67	.1779		7		
						HEATING	G SYS	ГЕМ						
V	#	System T	Гуре	S	ubtype			Efficienc	y	Capacity			Block	Ducts
	1	Electric H	leat Pur	mp/ N	lone			HSPF:8.	8 2	9 kBtu/hr			1	sys#1
						COOLING	G SYS	TEM						
$\sqrt{}$	#	System 1	уре	S	ubtype		E	fficiency	Capac	ity A	ir Flow	SHR	Block	Ducts
	1	Central L			lone			SEER: 15	29 kBtu	ı/hr 87		0.75		sys#1

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT

ORM R4	105-201	1	INP	UI SUN	MARY (ATER SY		EPORT	-	_			
V	#	System Type Electric	SubType None	Locati		Ca	ıp	Use 60 gal	SetPnt 120 deg		Conserv		
		Electric	None		SOLAR HO				120 deg		None		
V	FSEC Cert #	Company N	ame			Model#		ollector Mode		llector \rea	Storage Volume	FEF	=
	None	None	***************************************							ft²			
•						DUCTS			_				*
\checkmark	#	Sup Location R			Return tion Area	Leakaç	је Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN R		VAC #
	1	Attic	6 336.6	ft Att	ic 84.151	t Default	Leakage	Main	(Default)	(Default)		1	1
					TEM	IPERATUR	RES						
Program	able The	rmostat: Y			Ceiling Fan	s:							
Cooling Heating Venting	[] Ja [X] Ja [] Ja	n []Feb n [X]Feb n []Feb	[] Mar [X] Mar [X] Mar	Apr Apr X Apr	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul Jul Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] 8 [] 8	ct [] N ct [X] N ct [X] N	ov (Dec Dec Dec
Thermosta		le: HERS 200	06 Reference)			н	ours					
Schedule 1	Туре		1	2	3 4	5	6	7	8	9	10	11	12
Cooling (W	/D)	AM PM	78 80	78 80	78 78 78 78	78 78	78 78	78 78	78 78	80 78	80 78	30 78	80 78
Cooling (W	/EH)	AM PM	78 78	78 78	78 78 78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (W	VD)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	58 66	68 66
Heating (W	VEH)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
			200			MASS							
Ma	ass Type			Area		Thickness		Furniture Fra	ction	Spa	се		
De	efault(8 lb	s/sq.ft.		0 ft²		0 ft		0.3		, N	1ain		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

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
3. No. of units (if multiple-family)	31	c) AHU location Main
4. Number of bedrooms	43	13. Cooling system: Capacity 29.0
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	a) Split system SEER b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. <u>1683</u>	d) Room unit/PTAC EER e) Other 15.0
 7. Windows, type and area a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC) c) Area 8. Skylights	7a. 0.300 7b. 0.200 7c. 196.0	14. Heating system: Capacity 29.0 a) Split system heat pump HSPF b) Single package heat pump HSPF c) Electric resistance COP
a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC)	8aNA 8bNA	d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other 8.80
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) 2. Masonry (Insulation R-value)	10A1. <u>13.0</u> 10A2 10B1 10B2	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
11. Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed	11a. 38.0 11b. 11c. 30.0 11d. No	16. HVAC credits claimed (Performance Method) a) Ceiling fans b) Cross ventilation c) Whole house fan d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ener	gy Conservation, if not DEFAULT.
I certify that this home has complied with the saving features which will be installed (or exceedisplay card will be completed based on installed).	eeded) in this home before	e final inspection. Otherwise, a new EPL
Builder Signature:		Date:
Address of New Home:		City/FL Zip:, FL

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

AD	DDRESS:	Permit Number:
MAN		CUIREMENTS See individual code sections for full details.
\checkmark		SECTION R401 GENERAL
	card be completed ar 553.9085, Florida Sta residential buildings. dwelling unit. The bui	prmance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display docertified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section tutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a ding official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and ed to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
	R402.4 Air leakage (Sections R402.4.	Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of 1 through R402.4.5.
		ion: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to with Section C402.5.
		ing thermal envelope building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. thods between dissimilar materials shall allow for differential expansion and contraction.
	the manufacture	callation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with er's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the approved third party shall inspect all components and verify compliance.
	changes per ho accordance with individuals as d an approved thi	ting. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air ur in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either efined 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 rd party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code shall be performed at any time after creation of all penetrations of the building thermal envelope.
	Exception: buildings in whi	Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing ch the new construction is less than 85 percent of the building thermal envelope.
	other infiltration 2. Dampers inc infiltration contr 3. Interior doors 4. Exterior door 5. Heating and	ows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or control measures. Juding exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended of measures. Juding exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended of measures. Juding exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended of measures. Juding exhaust, intended at the time of the test, shall be turned off. Juding exhaust, intended at the time of the test, shall be fully open.
	tight-fitting doors on fa	New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using actory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the g tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	square foot (1.5 L/s/m	on air leakageWindows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per 12), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or 01/l.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: 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 2. 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. R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load. All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below. Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3. R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193. R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods: 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 manufacture of the system of the sys air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. 2. 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 **Exceptions:** 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. R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3. Piping insulation exposed to weather shall be protected from damage, including that caused R403.4.1 Protection of piping insulation. by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted. R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory)Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible. R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water. R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall

times when heated water is used in the occupancy.

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

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.
	If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
	R403.7 Heating and cooling equipment (Mandatory).
	R403.7.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating

equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed. TABLE R403.6.1 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ⁸ (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

a.

МΔ	NDATORY 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. 2.
	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). The energy consumption of pools and permanent spas 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.
	Where pumps are powered exclusively from on-site renewable generation.
	R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
	Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.
	R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool
	heaters fired by natural or LP gas shall not have continuously burning pilot lights.

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

190997 Nims

Builder Name: Edgley Construction

Street:

City, State, Zip:

, FL ,

John & Ruby Nims

Permit Office: Permit Number:

Jurisdiction:

SK

Owner: Design Location:	John & Ruby Nims Jurisdiction: FL, Gainesville		용
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 spac	es.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

Envelope Leakage Test Report (Blower Door Test)

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

Jurisdiction:		Permit #:	
Job Information			
Builder: Edgley Construction	Community:	Lot:	NA
Address:			
City:	State:	FL Zip:	
Air Leakage Test Results	Passing results must meet e	ither the Performance, Prescriptive,	or ERI Method
PRESCRIPTIVE METHOD-The b changes per hour at a pressure o	ouilding or dwelling unit shall be test f 0.2 inch w.g. (50 Pascals) in Clima	ed and verified as having an air leakage ate Zones 1 and 2.	rate of not exceeding 7 air
the selected ACH(50) value, as shown of	on Form R405-2017 (Performance)	Il be tested and verified as having an air or R406-2017 (ERI), section labeled as in (Performance) or R406-2017 (ERI):	leakage rate of not exceeding nfiltration, sub-section ACH50.
PASS When ACH(50) is less that	ang Volume = ACH(50) an 3, Mechanical Ventilation ins	Retrieved from	ating building volume: n architectural plans e calculated ed and calculated
R402.4.1.2 Testing. Testing shall be cor Testing shall be conducted by either indi 489.105(3)(f), (g), or (i) or an approved the provided to the code official. Testing shall	nducted in accordance with ANSI/R viduals as defined in Section 553.9 hird party. A written report of the res	93(5) or (7), <i>Florida Statue</i> s.or individuals sults of the test shall be signed by the par	s licensed as set forth in Section ty conducting the test and
During testing: 1. Exterior windows and doors, fireplace control measures. 2. Dampers including exhaust, intake, mameasures. 3. Interior doors, if installed at the time of 4. Exterior doors for continuous ventilations. Heating and cooling systems, if installed 6. Supply and return registers, if installed	akeup air, back draft and flue damp f the test, shall be open. on systems and heat recovery ventil ed at the time of the test, shall be tu	ers shall be closed, but not sealed beyon lators shall be closed and sealed. Imed off.	
Testing Company			
Company Name: I hereby verify that the above Air Le Energy Conservation requirements		Phone:e with the 2017 6th Edition Florida Bethod selected above.	uilding Code
Signature of Tester:		Date of Test:	
Printed Name of Tester:			
License/Certification #:		Issuing Authority:	

Residential System Sizing Calculation

Summary Project Title:

John & Ruby Nims

190997 Nims

, FL

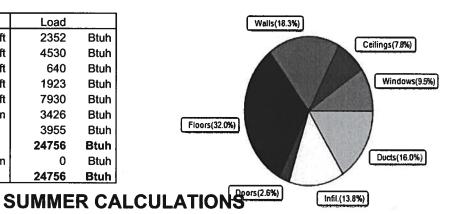
2019-09-23

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)							
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)							
Winter design temperature(TMY3 99%) 30 F Summer design temperature(TMY3 99%) 94 F							
Winter setpoint	70	F	Summer setpoint	75	F		
Winter temperature difference	40	F	Summer temperature difference	19	F		
Total heating load calculation	24756	Btuh	Total cooling load calculation	23853	Btuh		
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh		
Total (Electric Heat Pump)	117.1	29000	Sensible (SHR = 0.75)	110.9	21750		
Heat Pump + Auxiliary(0.0kW)	117.1	29000	Latent	171.3	7250		
			Total (Electric Heat Pump)	121.6	29000		

WINTER CALCULATIONS

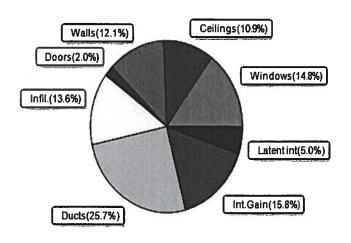
Winter Heating Load (for 1683 sqft)

Load component			Load	
Window total	196	sqft	2352	Btuh
Wall total	1276	sqft	4530	Btuh
Door total	40	sqft	640	Btuh
Ceiling total	1861	sqft	1923	Btuh
Floor total	1683	sqft	7930	Btuh
Infiltration	78	cfm	3426	Btuh
Duct loss			3955	Btuh
Subtotal			24756	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			24756	Btuh



Summer Cooling Load (for 1683 sqft)

Load component			Load	
Window total	196	sqft	3541	Btuh
Wall total	1276	sqft	2888	Btuh
Door total	40	sqft	480	Btuh
Ceiling total	1861	sqft	2597	Btuh
Floor total			0	Btuh
Infiltration	59	cfm	1220	Btuh
Internal gain			3780	Btuh
Duct gain			5114	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			19620	Btuh
Latent gain(ducts)			1008	Btuh
Latent gain(infiltration)			2025	Btuh
Latent gain(ventilation)	0	Btuh		
Latent gain(internal/occup	1200	Btuh		
Total latent gain		4233	Btuh	
TOTAL HEAT GAIN			23853	Btuh





EnergyGauge® System Sizing PREPARED BY: Evan Beamsley
DATE: 2019-09-23

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

John & Ruby Nims

, FL

Project Title: 190997 Nims Building Type: User

2019-09-23

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%) This calculation is for Worst Case. The house has been rotated 225 degrees.

Component Loads for Whole House

Window	Panes/Type	Frame U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.20	Metal 0.30	SW	16.0	12.0	192 Btuh
2	2, NFRC 0.20	Metal 0.30	SW	6.7	12.0	80 Btuh
3	2, NFRC 0.20	Metal 0.30	SW	26.7	12.0	320 Btuh
4	2, NFRC 0.20	Metal 0.30	SW	30.0	12.0	360 Btuh
5	2, NFRC 0.20	Metal 0.30	NE	30.0	12.0	360 Btuh
6	2, NFRC 0.20	Metal 0.30	NE	60.0	12.0	720 Btuh
7	2, NFRC 0.20	Metal 0.30	NE	6.7	12.0	80 Btuh
8	2, NFRC 0.20	Metal 0.30	SE	20.0	12.0	240 Btuh
	Window Total			196.0(sqft)		2352 Btuh
Walls	Туре	Ornt. Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext (0.089)	13.0/0.0	353	3.55	1253 Btuh
2	Frame - Wood	- Ext (0.089)	13.0/0.0	297	3.55	1054 Btuh
3	Frame - Wood	- Ext (0.089)	13.0/0.0	349	3.55	1239 Btuh
4	Frame - Wood	- Ext (0.089)	13.0/0.0	277	3.55	983 Btuh
	Wall Total			1276(sqft)		4530 Btuh
Doors	Туре	Storm Ueff.		Area X	HTM=	Load
1	Insulated - Exte	rior, n (0.400)		13	16.0	213 Btuh
2	Insulated - Exte	rior, n (0.400)		13	16.0	213 Btuh
3	Insulated - Exte	rior, n (0.400)		13	16.0	213 Btuh
	Door Total			40(sqft)		640Btuh
Ceilings	Type/Color/Surf	ace Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/S		38.0/0.0	1729	1.0	1755 Btuh
2	Knee Wall/D/Sh	ing (0.032)	30.0/0.0	132	1.3	168 Btuh
	Ceiling Total			1861(sqft)		1923Btuh
Floors	Туре	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180)	0.0	168.0 ft(per	im.) 47.2	7930 Btuh
	Floor Total			1683 sqft		7930 Btuh
			ı	Envelope Subto	otal:	17375 Btuh
Infiltration	Type Natural	Wholehouse A	CH Volume(0.28 16493	•	1	3426 Btuh
Duct load	Average sealed	, R6.0, Supply(Att), Retum(Att)	(DLM	of 0.190)	3955 Btuh
All Zones			Sensible	Subtotal All Z	ones	24756 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title: 190997 Nims

John & Ruby Nims

, FL

Building Type: User

2019-09-23

WHOLE HOUSE TOTALS	
	COLUMN A DESCRIPTION OF THE PROPERTY OF THE PR

Totals for Heating

Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss **Total Heat Loss**

24756 Btuh 0 Btuh 24756 Btuh

EQUIPMENT

1			
	Electric Heat Pump	#	29000 Btuh
	•		

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

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

John & Ruby Nims

Project Title: 190997 Nims

, FL

2019-09-23

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr. This calculation is for Worst Case. The house has been rotated 225 degrees.

Component Loads for Whole House

		Tı	pe'	*			Over	hana	Min	dow Area	(eaft)		ITM	Load	
Window	Panes	SHGC	-		10	Omt	Len	•	Gross					Loau	
1	2 NFRC			No	No	SW	11.5f	Hgt 1.0ft.	16.0	16.0	0.0	Shaded 10	Unshaded 20	159	Btuh
2	2 NFRC			No	No	SW	11.5f		6.7	6.7	0.0	10	20	66	Btuh
3	2 NFRC			No	No	SW	11.5f	1.0ft.	26.7	26.7	0.0	10	20	264	Btuh
4	2 NFRC			No	No	sw	11.5f	1.0ft.	30.0	30.0	0.0	10	20	297	
5	2 NFRC			No	No	NE	9.5ft.	1.0ft.	30.0	0.0	30.0	10	19	574	
6	2 NFRC			No	No	NE	9.5ft.	1.0ft.	60.0	0.0	60.0	10	19	1148	
7	2 NFRC			No	No	NE	9.5ft.	1.0ft.	6.7	0.0	6.7	10	19	128	Btuh
8	2 NFRC	•		No	No	SE	1.5ft.	9.0ft.	20.0	0.0	20.0	10	20	401	Btuh
Ū	Excursion					-	1.010.	0.010.	20.0	0.0	20.0	'0	20		Btuh
	Window								196 (caft)				3541	
Walls		/ TOtal					-Value				(1)		нтм		Dlui
Walls	Туре					U	-value			Area(sqit)		ППИ	Load	
1	Frame - \	Mood - F	U#				0.09		heath)/0.0	353			2.3	799	Btuh
2	Frame - \						0.09		//0.0)/0.0	297			2.3	672	
3	Frame - \						0.09		//0.0)/0.0	349			2.3	790	
4	Frame - \						0.09		//0.0)/0.0	277			2.3	627	
7	Wall To		Λι			,	J.U3	13.0	<i>1</i> 10.0				2.3		
Da		lai									6 (sqft)		11714	2888	Btur
Doors	Туре									Area			НТМ	Load	
1	Insulated									13	-		12.0	160	Btuh
2	Insulated									13			12.0	160	Btuh
3	Insulated		r							13			12.0		Btuh
	Door To										0 (sqft)			480	Btuh
Ceilings	Type/C	olor/Sı	rfa	ice		U	-Value	•	R-Valu	e Area(sqft)		HTM	Load	
1	Vented A	ttic/Dark	Shir	ngle			0.025	;	38.0/0.0	172	9.0		1.37	2370	Btuh
2	Knee Wa	III/DarkSI	ning	Ιe			0.032	;	30.0/0.0	132	2.0		1.72	227	Btuh
	Ceiling	Total								186	1 (sqft)			2597	Btuh
Floors	Type							R-\	/alue	Siz			HTM	Load	
1	Slab On (Grade							0.0	168	33 (ft-perir	neter)	0.0	0	Btuh
•	Floor To								0.0		0 (sqft)		0.0		Btuh
	1 1001 14	Jiai								1003.	o (sqit)			U	Diui
										Er	velope	Subtota	l:	9505	Btuh
nfiltration	Туре					Aver	age A	CH	Volu	ıme(cuft) Wall R	atio	CFM=	Load	
	Natural						- g - · ·	0.21	. 3.0	16493			58.7	1220	Btu
Internal							Occup			Btuh/oc			Appliance	Load	
gain							Oodp	6		X 23	•	•	2400	3780	D+
gain								- 0		A 23	, <u> </u>		2400	3760	Diu
										Se	ensible E	Envelop	e Load:	14506	Btuh
Duct load	Average	sealed, S	Supp	ply(R6	6.0-A	ttic), F	Retum(F	R6.0-At	tic)		(DG	M of 0.3	53)	5114	Btu
										Sen	sible Le	oad All	Zones	19620	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued) Project Title: Climate:FL_GAINESVILLE_REGIONAL_A

John & Ruby Nims

190997 Nims

, FL

2019-09-23

WHOLE HOUSE TOTALS			
	Sensible Envelope Load All Zones	14506	Btuh
	Sensible Duct Load	5114	Btuh
	Total Sensible Zone Loads	19620	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	19620	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	2025	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	1008	Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	4233	Btuh
	TOTAL GAIN	23853	Btuh

EQUIPMENT		
1. Central Unit	#	29000 Btuh

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

(U - Window U-Factor)

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

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed (IS - Insect screen: none(N), Full(F) or Half(1/2))

(Omt - 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: 2089496 - EDGLEY CONST. - NIMS RES.

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Edgley Const. Project Name: Nims Res. Model: Custom

Subdivision: N/A

Lot/Block: N/A Address: TBD, TBD

City: Columbia Cty

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2017/TPI2014

Wind Code: ASCE 7-10 Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.2

Wind Speed: 130 mph Floor Load: N/A psf

This package includes 8 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	T18135678	PB01	9/17/19
2	T18135679	PB01G	9/17/19
2 3	T18135680	T01	9/17/19
4	T18135681	T01G	9/17/19
5	T18135682	T02	9/17/19
6	T18135683	T03	9/17/19
7	T18135684	T04	9/17/19
8	T18135685	T05	9/17/19



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: ORegan, Philip

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.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

September 1.7,2019

Job Truss Truss Type Qty Ply EDGLEY CONST. - NIMS RES. T18135678 2089496 PB01 PIGGYBACK 25 Job Reference (optional) Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Sep 17 14:17:40 2019 Page 1 ID:SmyXhiHwtEQc8JpHzZKseMycjCN-5h8scA7XmkuRSZy?kxM2pLkvbn4kChi3TTOqDPyciGf Scale = 1:14.7 4x4 = 3 7.00 12 ş 6 2x4 || 2x4 = 7-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in l/defl PLATES GRIP 1/dTCLL 20.0 Plate Grip DOL 1.25 TC 0.11 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 ВС 0.07 Vert(CT) 0.00 5 n/r 120 **BCLL** 0.0 Rep Stress Incr WB 0.02 Horz(CT) 0.00 n/a n/a **BCDL** 10.0 Code FBC2017/TPI2014 Matrix-P Weight: 22 lb FT = 20%LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD 2x4 SP No.2

2x4 SP No.3 OTHERS

BOT CHORD

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

REACTIONS.

(lb/size) 2=134/5-0-14, 4=134/5-0-14, 6=184/5-0-14

Max Horz 2=-58(LC 10)

Max Uplift 2=-72(LC 12), 4=-80(LC 13), 6=-37(LC 12) Max Grav 2=134(LC 1), 4=134(LC 20), 6=184(LC 1)

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

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 72 lb uplift at joint 2, 80 lb uplift at joint 4 and 37 lb uplift at joint 6.

7) n/a

8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

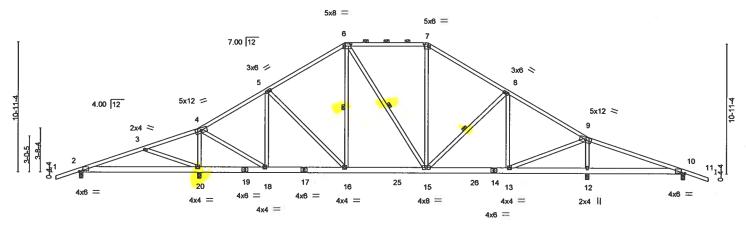
September 17,2019

🛦 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 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 the applicability of design parameters and property design 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 the applicability of design parameters and property design. Gracing individual temporary and personnent bracking 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/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Seferty Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22214.



Job	Truss		Truss Type			Qtv	Plv	EDGLEY CONST NIMS RE	e e	
2089496	T01		Piggyback E			13	[",	EDGEET CONGT MINIS NE	o .	T18135680
Puilden FirstSaura		ill- El 20044						Job Reference (optional)		-
Builders FirstSource,	Jacksonv	rille, FL - 32244,			ID;Sm			14 2019 MiTek Industries, Inc. KseMycjCN-13Fc1s8nIL99hs5		
[2-0-0]	5-7-3	10-0-0	15-10-4	22-5-2	29-5-2		36-1-13	43-0-0	51-0-0	53-0-0
2-0-0	5-7-3	4-4-13	5-10-4	6-6-14	7-0-0	- 1	6-8-11	6-10-3	8.0.0	2.0.0

Scale = 1:93.6



⊢	10-0-0 10-1 _r 12 15-10-4	22-5-2	29-5-2	36-1-13	42-10-4	43-Q-0 51-0-0	
Plate Offsets (X,Y)-	10-0-0 0-1-12 5-8-8 [2:0-3-6,0-0-11], [6:0-6-0,0-2-4], [7:0-4-0	6-6-14 0,0-2-4], [10:0-3-6,0-0-6]	7-0-0	6-8-11	6-8-7	0-1-12 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 0.71 BC 0.33 WB 0.48 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl 0.12 20-22 >999 -0.13 20-22 >915 0.02 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 338 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except*

6-15: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins,

except

2-0-0 oc purlins (4-8-2 max.): 6-7.

Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD WEBS

1 Row at midpt 6-16, 6-15, 8-15

REACTIONS. All bearings 0-3-8.

(lb) - Max Horz 2=237(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-387(LC 8), 20=-673(LC 12), 12=-577(LC 13),

10=-343(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 2=375(LC 23), 20=1725(LC 1), 12=1553(LC 1), 10=355(LC 24)

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

TOP CHORD 2-3=-165/301, 3-4=-232/367, 4-5=-906/372, 5-6=-1047/571, 6-7=-920/586,

7-8=-1079/598, 8-9=-1123/494

BOT CHORD 18-20=-361/401, 16-18=-206/930, 15-16=-104/914, 13-15=-147/976
WEBS 3-20=-441/468, 4-20=-1359/654, 4-18=-477/1251, 5-18=-524/352, 6

3-20=-441/468, 4-20=-1359/654, 4-18=-477/1251, 5-18=-524/352, 6-16=-62/274, 7-15=-72/286, 8-15=-247/250, 8-13=-315/239, 9-13=-367/1164, 9-12=-1304/658

NOTES1) Unbalanced roof I

- 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) 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.
- 7) "This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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 387 lb uplift at joint 2, 673 lb uplift at joint 20, 577 lb uplift at joint 12 and 343 lb uplift at joint 10.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

September 17,2019

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

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



Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST NIMS RES.
2089496	T01G	GABLE	2	1	T18135681
					Job Reference (optional)

Builders FirstSource,

Jacksonville, FL - 32244.

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Sep 17 14:17:44 2019 Page 2 ID:SmyXhiHwtEQc8JpHzZKseMycjCN-zSNNSYA1qzPtwAFmznR_zBuXvORy8TXeO4M2MByciGb

NOTES-

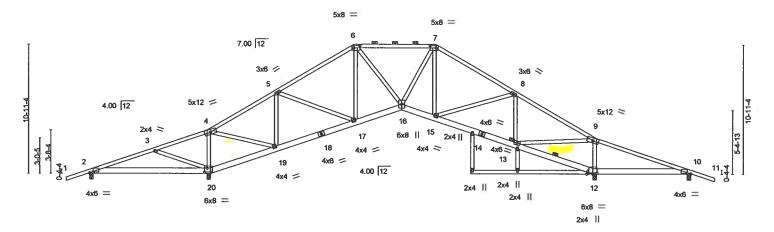
10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 31, 33, 39, 49, 48, 44, 42, 41 except (it=lb) 2=231. 28=226, 30=195, 32=112, 34=102, 35=101, 36=102, 37=109, 50=194, 47=104, 46=101, 45=102, 43=116.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type		Qty	Ply	EDGLEY CONST NIMS RES		
2089496	тоз	Piggyback Base		2				T18135683
2009490	100	1 iggyback base		٦	'	Job Reference (optional)		
Builders FirstSource,	Jacksonville, FL - 32244,	•		8	.240 s Jul	14 2019 MiTek Industries, Inc.	Tue Sep 17 14:17:	47 2019 Page 1
			ID:Smy	XhiHwtEQ	c8JpHzZK	seMycjCN-N13V4aCw7unSne_	Lev_hbqWwkcPnL	.ib542biyVyciGY
[2-0-0]	5-7-3 10-0-0	5-10-4 22-5-2	29-5-2	- 1	36-1-13	43-0-0	51-0-0	53-0-0
2-0-0	5-7-3 4-4-13	5-10-4 6-6-14	7-0-0	1	6-8-11	6-10-3	8-0-0	2-0-0

Scale = 1:94.1



	10-1-12 0-1	i " 12 5-6-12	6-6-14	4-0-14 2-11-2	2-10-14 3	3-9-13	6-6-11	0-1-12 8-1-12		
X,Y)-	[2:0-3-6,0-0-11], [6:0-6-0						0-0-11	0-1-12 0-1-12		
Ŋ	SPACING-	2-0-0	CSI.	DEFL.	in (loc	l/defi	L/d	PLATES	GRIP	
ó .	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	0.16 20-25	>792	240	MT20	244/190	
0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.18 20-25	>695	180			
0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.10 12	n/a	n/a			
0	Code FBC2017/T	PI2014	Matrix-MS	` '				Weight: 338 lb	FT = 20%	
1	f) 0 0 0 0 *	f) SPACING- 0 Plate Grip DOL Lumber DOL 0 Rep Stress Incr	f) SPACING- 2-0-0 0 Plate Grip DOL 1.25 0 Lumber DOL 1.25 0 Rep Stress Incr YES	f) SPACING- 2-0-0 CSI. 0 Plate Grip DOL 1.25 TC 0.82 0 Lumber DOL 1.25 BC 0.37 0 Rep Stress Incr YES WB 0.65	f) SPACING- 2-0-0 CSI. DEFL. 0 Plate Grip DOL 1.25 TC 0.82 Vert(LL) 0 Lumber DOL 1.25 BC 0.37 Vert(CT) 0 Rep Stress Incr YES WB 0.65 Horz(CT)	f) SPACING- 2-0-0 CSI. DEFL. in (loc) 0 Plate Grip DOL 1.25 TC 0.82 Vert(LL) 0.16 20-25 0 Lumber DOL 1.25 BC 0.37 Vert(CT) -0.18 20-25 0 Rep Stress Incr YES WB 0.65 Horz(CT) 0.10 12	f) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl 0 Plate Grip DOL 1.25 TC 0.82 Vert(LL) 0.16 20-25 >792 0 Lumber DOL 1.25 BC 0.37 Vert(CT) -0.18 20-25 >695 0 Rep Stress Incr YES WB 0.65 Horz(CT) 0.10 12 n/a	f) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 0 Plate Grip DOL 1.25 TC 0.82 Vert(LL) 0.16 20-25 >792 240 0 Lumber DOL 1.25 BC 0.37 Vert(CT) -0.18 20-25 >695 180 0 Rep Stress Incr YES WB 0.65 Horz(CT) 0.10 12 n/a n/a	f) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES 0 Plate Grip DOL 1.25 TC 0.82 Vert(LL) 0.16 20-25 >792 240 MT20 0 Lumber DOL 1.25 BC 0.37 Vert(CT) -0.18 20-25 >695 180 0 * Rep Stress Incr YES WB 0.65 Horz(CT) 0.10 12 n/a n/a	f) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defi L/d PLATES GRIP 0 Plate Grip DOL 1.25 TC 0.82 Vert(LL) 0.16 20-25 >792 240 MT20 244/190 0 Lumber DOL 1.25 BC 0.37 Vert(CT) -0.18 20-25 >695 180 0 * Rep Stress Incr YES WB 0.65 Horz(CT) 0.10 12 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

12-21: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=237(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-397(LC 8), 12=-597(LC 13), 10=-351(LC 9), 20=-722(LC

Max Grav All reactions 250 lb or less at joint(s) 2, 10 except 12=1696(LC 1), 20=1916(LC 1)

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

TOP CHORD 2-3=-124/652, 3-4=-372/951, 4-5=-734/269, 5-6=-1273/498, 6-7=-1342/514,

7-8=-1450/547, 8-9=-1213/471, 9-10=-202/690

2-20=-476/198, 19-20=-1056/632, 17-19=-198/827, 16-17=-110/1068, 15-16=-55/1225, **BOT CHORD** 13-15=-149/1051, 12-13=-803/400, 10-12=-600/298

WEBS 3-20=-468/496, 4-20=-1253/549, 4-19=-531/1603, 5-19=-803/385, 5-17=-132/477,

6-16=-41/551, 7-16=-89/439, 8-15=-177/332, 8-13=-573/283, 9-13=-495/1714,

9-12=-1238/601

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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 2, 597 lb uplift at joint 12, 351 lb uplift at joint 10 and 722 lb uplift at joint 20.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126 6904 Parke East Blvd, Tampa FL 33610

September 17,2019

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



Structural wood sheathing directly applied or 4-3-6 oc purlins, except

Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

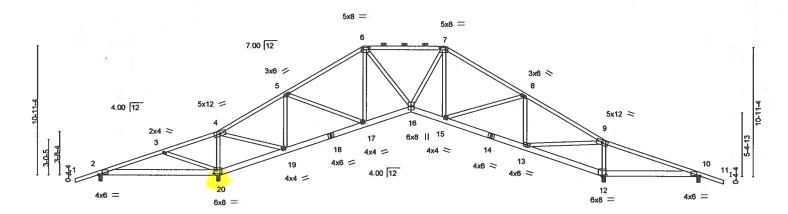
2-0-0 oc purlins (3-2-15 max.): 6-7.

6-0-0 oc bracing: 12-13 10-0-0 oc bracing: 13-15

1 Brace at Jt(s): 13

	ob	Truss	Truss Type	Qty	Ply	EDGLEY CONST NIMS RES.	٦
- 1						T18135685	,
F	089496	T05	Piggyback Base	6	1		- 1
- L						Job Reference (optional)	
	Builders FirstSource,	Jacksonville, FL - 32244,		8	240 s Jul	14 2019 MiTek Industries, Inc. Tue Sep 17 14:17:50 2019 Page 1	_
				ID:SmyXhiHwtEQc	BJpHzZKs	eMycjCN-ockeibFoPp91f5iwJ1YODS8R_pQUY3KXm0qMZqvciGV	
	r2-0-0 5-7	7-3 10-0-0	5-10-4 22-5-2	29-5-2	36-1-13	43-0-0 51-0-0 53-0-0	
	2-0-0 5-7	7-3 4-4-14	5-10-3 6-6-15	7-0-0	6-8-11	6-10-3 8-0-0 2-0-0	

Scale = 1:94.1



	<u> </u>		3-8 15-10-4 -12 5-6-11	22-5-2 6-6-15	26-6-0 29-5-2 4-0-14 2-11-2		+	42-8-8 6-6-11	42-10-4 51-0-0 0-1-12 8-1-12	
Plate Offse	ets (X,Y)—	[2:0-3-6,0-0-11], [6:0-6-0	,0-2-4], [7:0-6-0	,0-2-4], [10:0-3-6,0-0-6), [12:0-4-0,0-1-5], [20:0-2-8,0-4-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	0.16 20-22	>793	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.18 20-22	>695	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.10 12	n/a	n/a		
BCDL	10,0	Code FBC2017/T	PI2014	Matrix-MS	-				Weight: 315 It	FT = 20%

LUMBER-

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

2x4 SP No.3 WEBS

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-3-6 oc purlins, except

2-0-0 oc purlins (3-2-15 max.): 6-7.

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8,

(lb) - Max Horz 2=237(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-397(LC 8), 12=-597(LC 13), 10=-351(LC 9), 20=-723(LC

Max Grav All reactions 250 lb or less at joint(s) 2, 10 except 12=1696(LC 1), 20=1916(LC 1)

FORCES. ((b) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-124/652, 3-4=-372/951, 4-5=-733/269, 5-6=-1273/498, 6-7=-1342/514,

7-8=-1450/547, 8-9=-1213/471, 9-10=-202/690

2-20=-476/198, 19-20=-1056/632, 17-19=-198/827, 16-17=-110/1068, 15-16=-55/1225, **BOT CHORD**

13-15=-149/1051, 12-13=-803/400, 10-12=-600/298

WEBS 3-20=-468/496, 4-20=-1253/549, 4-19=-531/1602, 5-19=-803/385, 5-17=-132/478,

6-16=-41/551, 7-16=-89/439, 8-15=-177/332, 8-13=-573/283, 9-13=-495/1714,

9-12=-1238/601

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 core and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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 397 lb uplift at joint 2, 597 lb uplift at joint 12, 351 lb uplift at joint 10 and 723 lb uplift at joint 20.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

September 17,2019

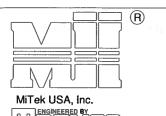
🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 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 ucallapse 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/TH1 Quality Criterie, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

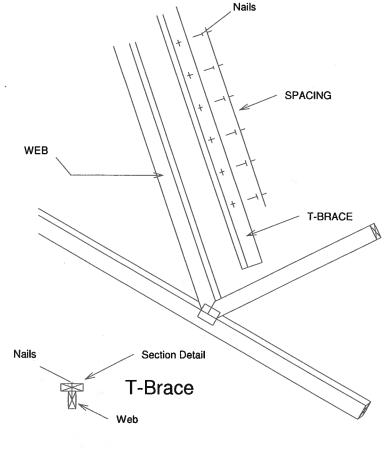
A MI JOK ATTILISTO							
Nailing Pattern							
T-Brace size	Nail Size	Nail Spacing					
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.					

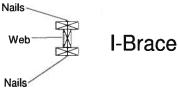
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

		e Size -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

		e Size -Ply Truss
		Continuous teral Bracing
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

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





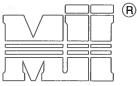


Thomas A. Albani PE No.39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

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

MII-REP05

MiTek USA, Inc. Page 1 of 1

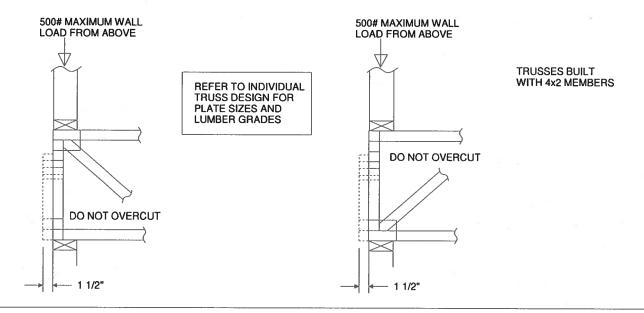


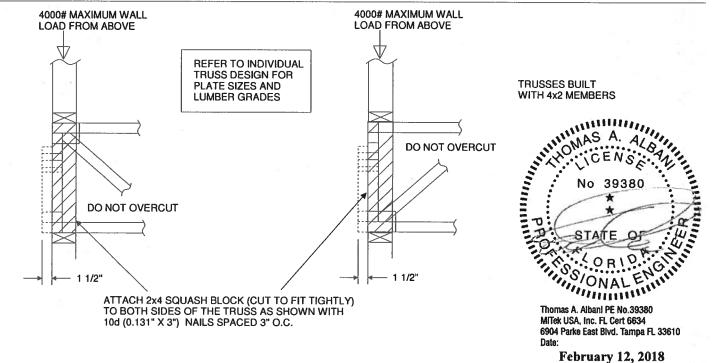
MiTek USA, Inc.



- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

 3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
 5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ORIENTATION ONLY.
 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.



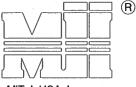


Standard Gable End Detail

MII-GE130-SP

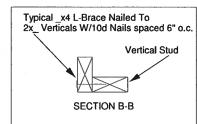
Page 1 of 2

MiTek USA, Inc.



MiTek USA, Inc.

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



24

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Vertical Stud DIAGONAL (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.

SHEATHING TO 2x4 STD SPF BLOCK

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

Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =- 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.

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

(REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

06-01-13 BY SPIB/ALSC.

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

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

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		Maximum Stud Length						
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6		
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1		
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15		

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

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

DURATION OF LOAD INCREASE: 1.60

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



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

MiTek USA, Inc. ENGINEERED BY

VICIO (VICIO)

A MITek Affiliate

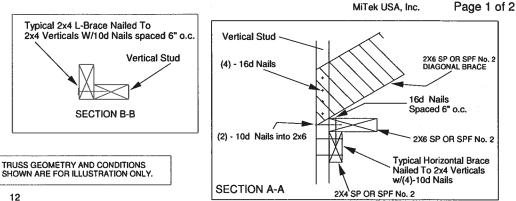
DIAGONAL BRACE

4'-0" O.C. MAX

(R)

Standard Gable End Detail

MII-GE170-D-SP



Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

3x4 =

24" Max

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

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

(2) - 10g/NAILS

- Diagonal Bracing Refer to Section A-A

L-Bracing Refer to Section B-B

**

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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.

"L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
 DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 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.

TYPE THUSSES.

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")

Max.			
Diag. Brace at 1/3 points if needed	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
End Wall	MASS	8	
NAL AT			

Roof Sheathing

1'-0"

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)

Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS				
	Maximum Stud Length							
12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4				
16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3				
24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13				
12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7				
16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5				
24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14				
	12" O.C. 16" O.C. 24" O.C. 12" O.C. 16" O.C.	Spacing Brace 12" O.C. 3-9-7 16" O.C. 3-4-12 24" O.C. 2-9-4 12" O.C. 3-11-13 16" O.C. 3-7-7	Spacing Brace L-Brace 12" O.C. 3-9-7 5-8-8 16" O.C. 3-4-12 4-11-15 24" O.C. 2-9-4 4-0-7 12" O.C. 3-11-13 5-8-8 16" O.C. 3-7-7 4-11-5	Stud Spacing L-Brace BRACE Maximum Stud Length 12" O.C. 3-9-7 5-8-8 6-11-1 16" O.C. 3-4-12 4-11-15 6-9-8 24" O.C. 2-9-4 4-0-7 5-6-8 12" O.C. 3-11-13 5-8-8 6-11-1 16" O.C. 3-7-7 4-11-5 6-11-1				

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 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 170 MPH **DURATION OF LOAD INCREASE: 1.60**

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



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(R)

MiTek USA, Inc.

ENGINEERED B

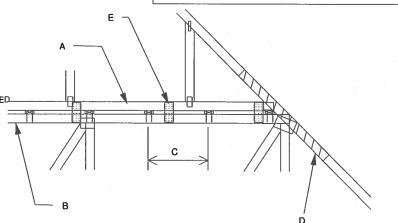
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING **EXPOSURE B or C ASCE 7-10 DURATION OF LOAD INCREASE: 1.60**

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

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 SHALL BE CONNECTED TO EACH PURLIN
 WITH (2) (0.131* X 3.5") TOE-NAILED.
 B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
 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 COMMINDOS OVER INTERSECTION AT LEAST FFT, IN BOTH
 DIRECTIONS AND:

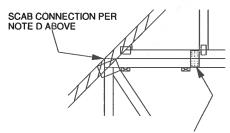
 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

 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 Nai-HON PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

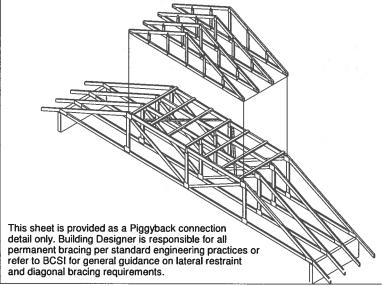


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

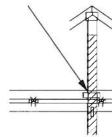
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



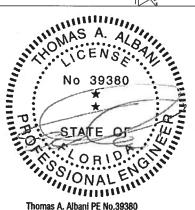
VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP
- 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 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.



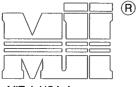
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STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

MII-REP01A1

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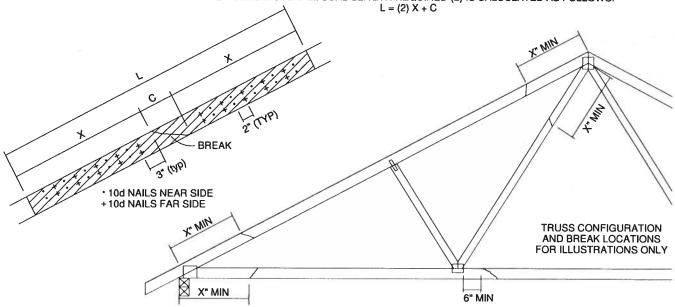
MiTek USA, Inc.	
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TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *			MAXIMUM FORCE (lbs) 15% LOAD DURATION									
		X INCHES	SP		DF		SPF		HF			
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6		
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028		
26	39	30"	2194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

* DIVIDE EQUALLY FRONT AND BACK

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

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



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

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:

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

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

 THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID

- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
 WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
 THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
 THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.



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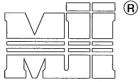
January 19, 2018

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

MiTek USA, Inc.

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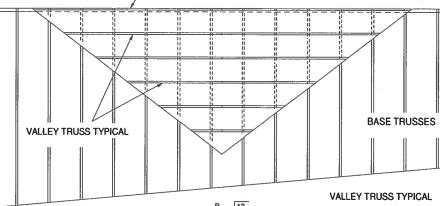
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GABLE END. COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

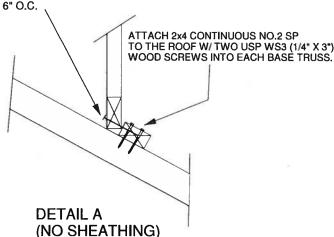
- 1. NAIL SIZE 10d (0.131" X 3") 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.

 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING. 6. NAILING DONE PER NDS - 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



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

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



N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN FER ASCE 7-96, ASCE 7-92, AS WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C

WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES

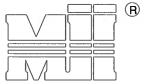
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Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

MiTek USA, Inc.

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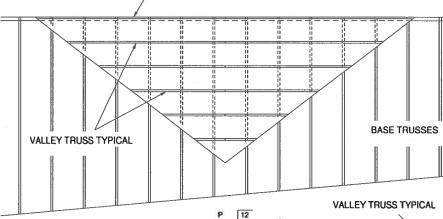
MiTek USA, Inc.

ENGINEERED BY

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

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

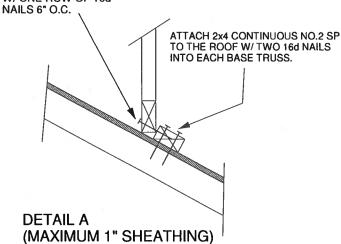


GABLE END, COMMON TRUSS OR GIRDER TRUSS

SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 16d

N.T.S.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 **CATEGORY II BUILDING** EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

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OR 10

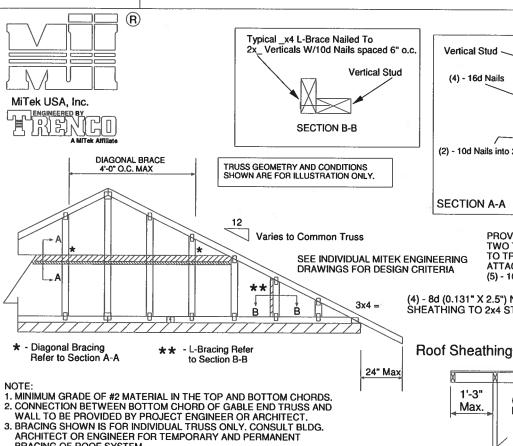
Thomas A. Albani PE No.3 NAS A. AL No 39380

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Standard Gable End Detail

MII-GE146-001



Page 1 of 2 MiTek USA, Inc. 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" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

(2) - 10d

1'-3"

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT
BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES:
2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

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.

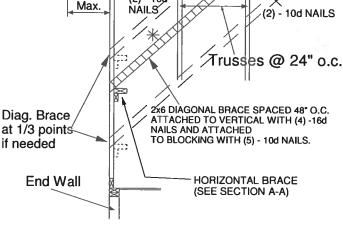
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

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.





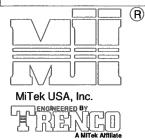
January 19, 2018

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

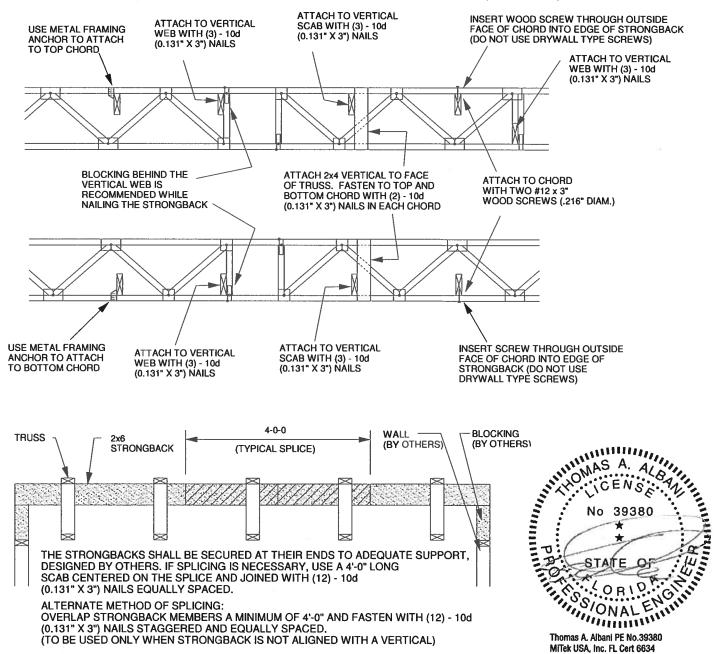
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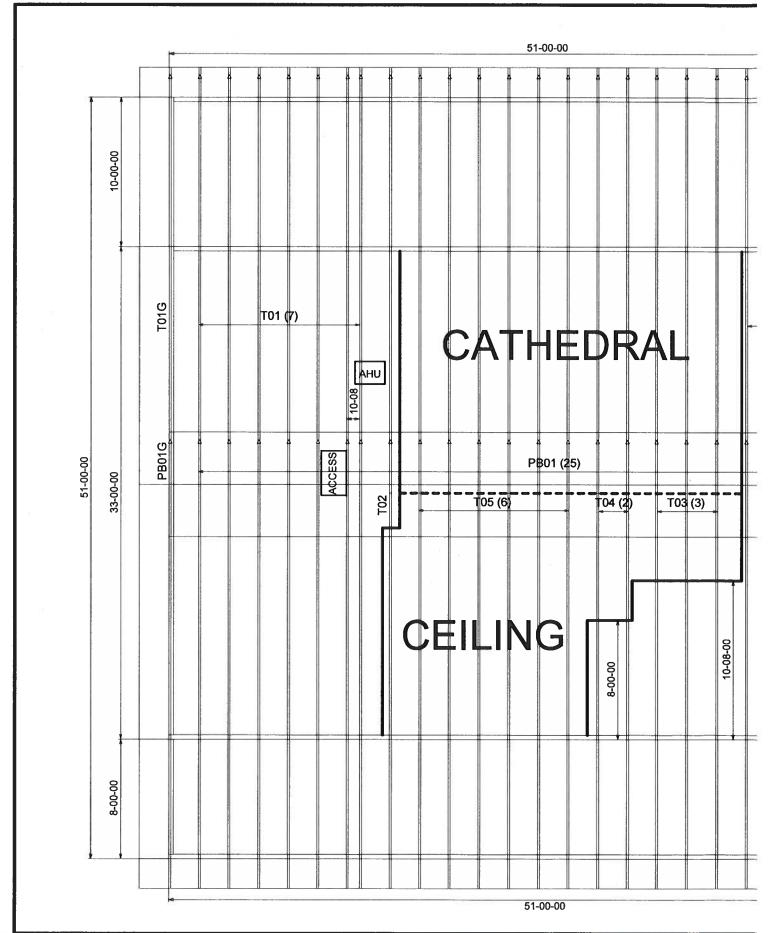
TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS. 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

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

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



Date



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

OCTOBER 5, 2016

REPLACE BROKEN OVERHANG

MII-REP13B

MiTek USA, Inc.

Page 1 of 1

(R)

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

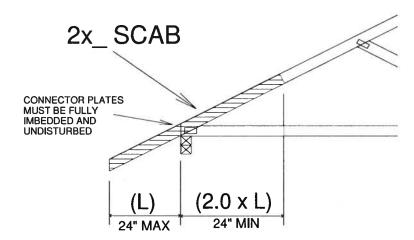
TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.

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.

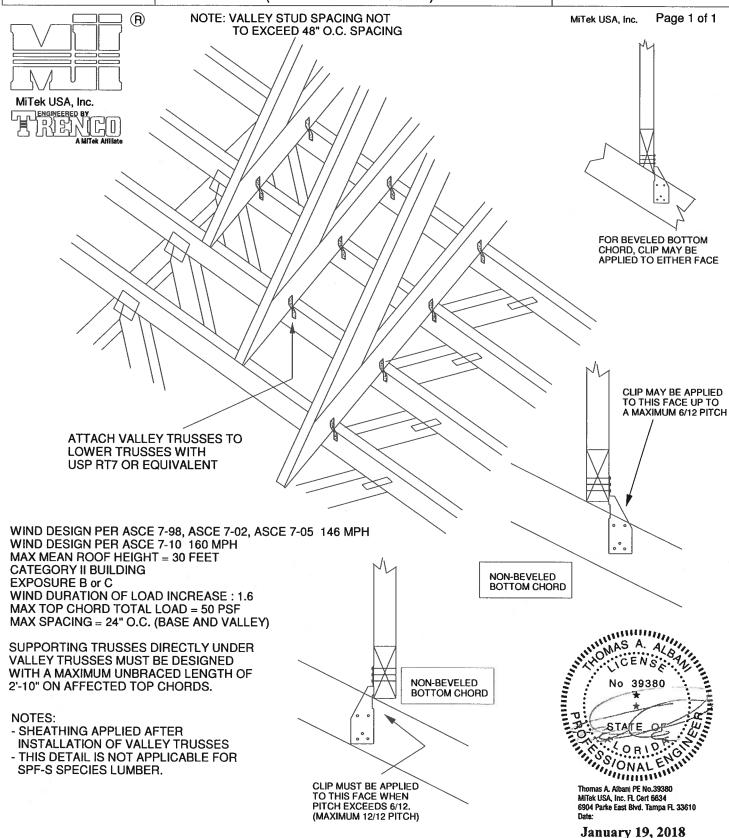
REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



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

TRUSSED VALLEY SET DETAIL (HIGH WIND VELOCITY)

MII-VALLEY

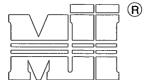


TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND2

MiTek USA, Inc.

Page 1 of 1

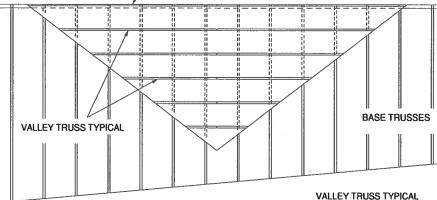


MiTek USA, Inc.

GABLE END, COMMON TRUSS OR GIRDER TRUSS

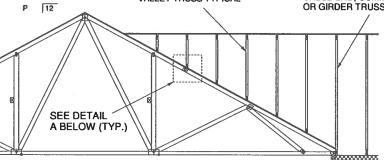
GENERAL SPECIFICATIONS

- 1. NAIL SIZE 10d (0.131" X 3") 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
- 2. WOOD SCHEW = 4.5" WS45 USP OH 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. NAIL INC. DONE BED NOS 61
- 6. NAILING DONE PER NDS-01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.

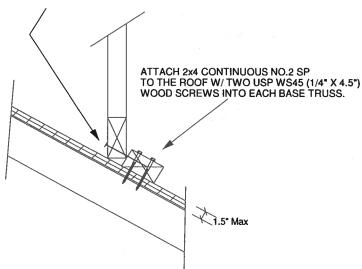


P 12

GABLE END, COMMON TRUSS OR GIRDER TRUSS



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



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C

WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24* O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF

ON THE TRUSSES



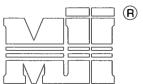
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LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP

MiTek USA, Inc.

Page 1 of 1



MiTek USA, Inc. ENGINEERED BY 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

OE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail) SPF SPF-S 88.0 80.6 69.9 68.4 59.7 93.5 85.6 74.2 72.6 63.4 84.5 73.8 108.8 99.6 86.4 74.2 57.6 50.3 67.9 58.9 75.9 69.5 60.3 59.0 51.1

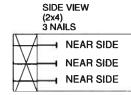
DIAM. .131 .135 .162 .128 .131 81.4 64.6 63.2 74.5 52.5 .148

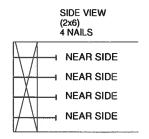
VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

3.5

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

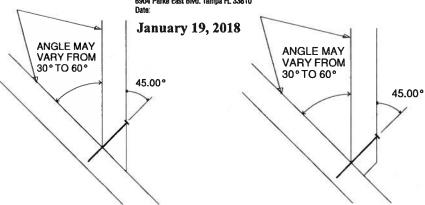
For load duration increase of 1.15: 3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

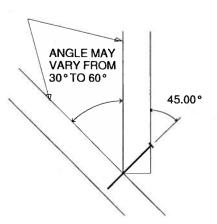






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STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MII-PIGGY-ALT 7-10

MiTek USA, Inc. Page 1 of 1

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

DURATION OF LOAD INCREASE: 1.60

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



A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
SHALL BE CONNECTED TO EACH PURLIN
WITH (2) 0 (0.131 * X 3.5") TOE-NAILED.
B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
CONNECT TO BASE TRUSS WITH (2) (0.131 * X 3.5") NAILS EACH.
D - 2 X __X 4"-0" SCAB, SIZE TO MATCH TOP CHORD OF
PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
INTERSECTION, WITH (2) POWS 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:

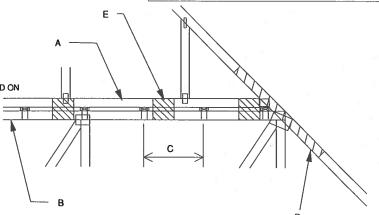
IS CONTINUOUS OVER INTERSECTION AT LEAST TET. IN BOTH
DIRECTIONS AND:

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 II.

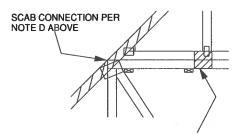
PIGGYBACK SPAN OF 12 ft.

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

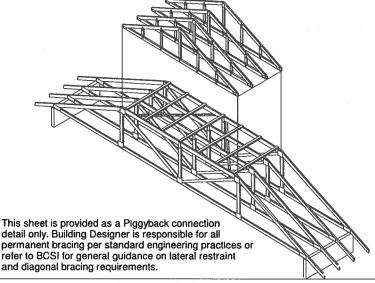


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

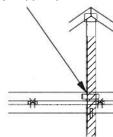
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK



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

1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP

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.

GHEATEH THAN 4000 LBS.
FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
CONCENTRATED LOAD MUST BE APPLIED TO BOTH
THE PIGGYBACK AND THE BASE TRUSS DESIGN.

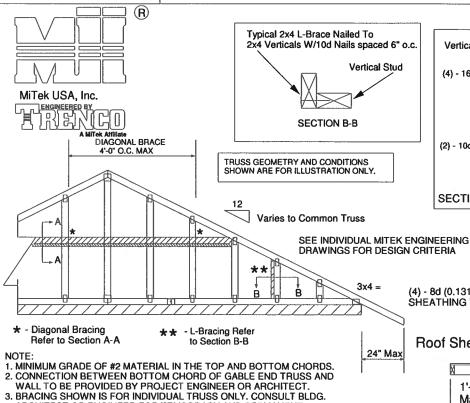


Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 19, 2018

Standard Gable End Detail

MII-GE180-D-SP



Page 1 of 2 MiTek USA, Inc. Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails SECTION A-A 2X4 SP OR SPF No. 2

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

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

Roof Sheathing

1'-0'

Max.

- 10gl NAILS (2) - 10d NAILS

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

∕Trusses @ 24" o.c.

HORIZONTAL BRACE (SEE SECTION A-A)

Diag. Brace at 1/3 points, if needed

End Wall

06-01-13 BY SPIBIALSC.

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

DIAPHRAM AT 4'-0" O.C.

TYPE TRUSSES.

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

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

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL

GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE

BRACING OF ROOF SYSTEM.
"L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3
OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

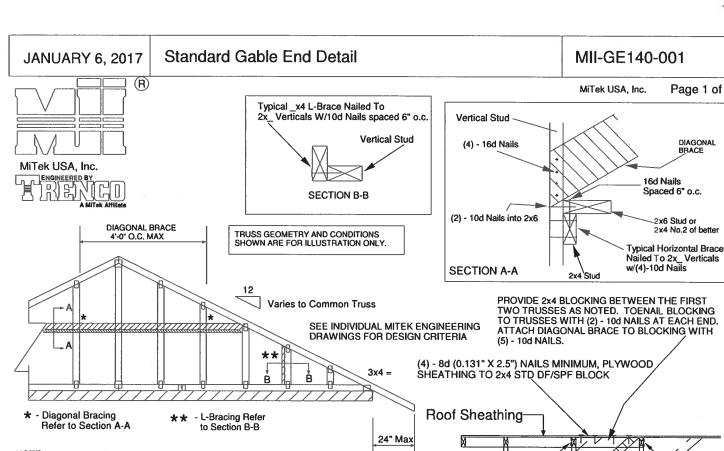
BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

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.



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



1'-3"

Max.

Diag. Brace

at 1/3 points

End Wall

if needed

- 10g/

NAILS'

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

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

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

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
 DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

TYPE TRUSSES.

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

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade		Maximum Stud Length							
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4			
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11			
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12			

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

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

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



Page 1 of 2

DIAGONAL BRACE

(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.

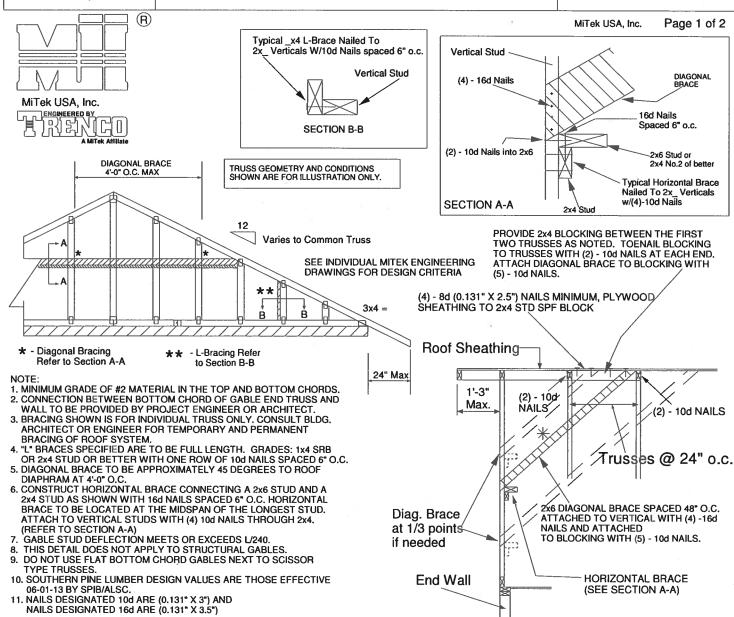
NAILS AND ATTACHED

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

January 19, 2018

Standard Gable End Detail

MII-GE130-D-SP

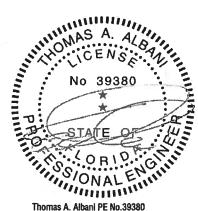


Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade		Maximum Stud Length							
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7			
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13			
2x4 SP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

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

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

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



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

SCAB-BRACE DETAIL

MII-SCAB-BRACE

MiTek USA, Inc.

Page 1 of 1

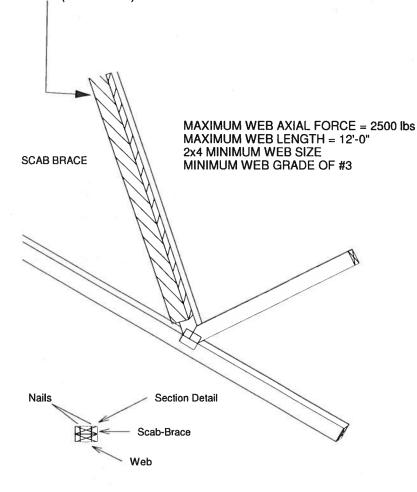


Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical.

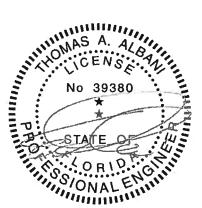
Scab must cover full length of web +/- 6".

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

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



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



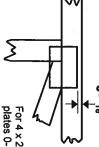
Thomas A. Albani PE No.39380 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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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



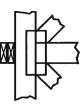
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

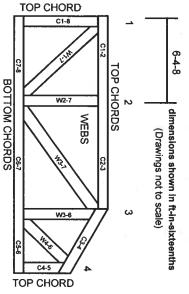
ANSI/TPI1: Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89: BCSI:

Installing & Bracing of Metal Plate 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

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 Lumber design values are in accordance with ANSI/TPI 1 established by others.

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

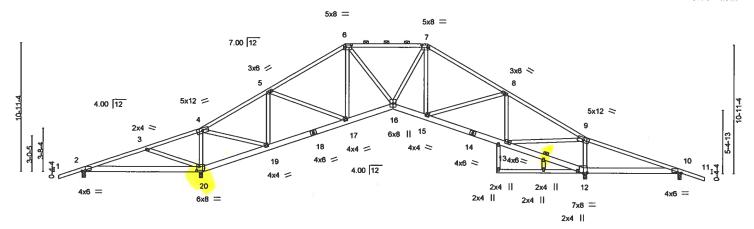
General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- 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 fateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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.
- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ 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.
- 5 Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

Job Truss Truss Type Qty Ply EDGLEY CONST. - NIMS RES. T18135684 2089496 T04 Piggyback Base Job Reference (optional) Jacksonville, FL - 32244, 8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Sep 17 14:17:49 2019 Page 1 Builders FirstSource ID:SmyXhiHwtEQc8JpHzZKseMycjCN-KQAGVFEAeV1A1x8jmK19gFcGEP5Fpc4NXM4p1OyciGW 15-10-4 5-10-4 10-0-0 22-5-2 6-6-14 29-5-2 7-0-0 43-0-0 4-4-13 6-8-11 6-10-3

Scale = 1:94.7



├	10-1-12 10-3-8 15-10- 10-1-12 0-1-12 5-6-1:		26-6-0 29-5-2 4-0-14 2-11-2	35-4-0 5-10-14	36 ₁ 1-13 0-9-13	42-8-8 6-6-11	_	-0-0 1-12
Plate Offsets (X,Y)	[2:0-3-6,0-0-11], [6:0-6-0,0-2-4], [7:0	6-0,0-2-4], [10:0-3-6,0-0-6]						
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 0.82 BC 0.37 WB 0.65 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.16 20-26 -0.18 20-26 0.10 12	l/defl >792 >695 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 3	GRIP 244/190 31 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

12-21: 2x4 SP No.3

WEBS 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-3-6 oc purtins, except

2-0-0 oc purlins (3-2-15 max.): 6-7.

Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-13

REACTIONS. All bearings 0-3-8.

(lb) -Max Horz 2=237(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-397(LC 8), 12=-597(LC 13), 10=-351(LC 9), 20=-722(LC

Max Grav All reactions 250 lb or less at joint(s) 2, 10 except 12=1696(LC 1), 20=1916(LC 1)

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

TOP CHORD 2-3=-124/652, 3-4=-372/951, 4-5=-734/269, 5-6=-1273/498, 6-7=-1342/514,

7-8--1450/547, 8-9--1213/471, 9-10--202/690

BOT CHORD 2-20=-476/198, 19-20=-1056/632, 17-19=-198/827, 16-17=-110/1068, 15-16=-55/1225,

13-15=-149/1051, 12-13=-803/400, 10-12=-600/298 3-20=-468/496, 4-20=-1253/549, 4-19=-531/1603, 5-19=-803/385, 5-17=-132/477,

6-16=-41/551, 7-16=-89/439, 8-15=-177/332, 8-13=-573/283, 9-13=-495/1714,

9-12=-1238/601

NOTES-

WEBS

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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.
- 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 397 lb uplift at joint 2, 597 lb uplift at joint 12, 351 lb uplift at joint 10 and 722 lb uplift at joint 20.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

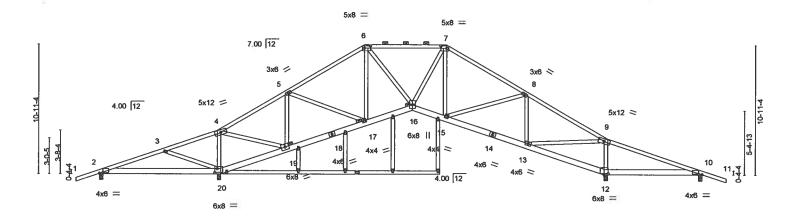
September 17,2019

⚠ 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 fruss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Francing Indicated its to prevent buckling of individual truss web and/dry chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/dry chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/dry chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/THY Quelity Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Trus	ss	Trus	s Type				Qty	Ply	EDGLEY CONST NIMS RES	3.	
2089496	T02		Pigg	vback Ba	se			1	1			T18135682
								ľ		Job Reference (optional)		
Builders FirstSource,	Jacks	onville, FL - 3224	14,					8	3.240 s Jul	14 2019 MiTek Industries, Inc.	Tue Sep 17 14:17	46 2019 Page 1
							ID:Sn	yXhiHwtE	Qc8JpHzZ	KseMycjCN-vrV7sEBIMafbAUP	94BTS2c COOct	FLxrOr8Q3yciGZ
i-2-0-0 i	5-7-3	10-0-0	15-10-4	1_	22-5-2	210	29-5-2		36-1-13	43-0-0	51-0-0	53-0-0
2.0.0	5.7.3	4.4.13	5.10.4		8.6.14	1.1	7.0.0		6.0 11	6 10 2	000	1000

Scale = 1:94.1



					29-5	>-2				
		5-7-3 10-1-12 10-1	3-8 15-10-4	22-5-2	26-6-0 28-10-0	. 36-1-13		42-8-8	42-10-4 51-0-0	1
		5-7-3 4-6-9 0-1	12 5-6-12	6-6-14	4-0-14 2-4-0 0-7	-2 6-8-11		6-6-11	0-1[12 8-1-12	
Plate Offse	ets (X,Y)	[2:0-3-6,0-0-11], [6:0-6-0,	0-2-41, [7:0-6-0.	0-2-41. [10:0-3-6.0-0-6].	[12:0-4-0.0-1-5], [2	0:0-2-8.0-4-01				
		1	1	1112	1					
LOADING	(nsf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	Vdefl	L/d	PLATES	GRIP
						, ,				
CLL	20.0	Plate Grip DOL	1.25	TC 0.82	Vert(LL)	0.16 20-31	>792	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.18 20-31	>695	180	1	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.10 12	n/a	n/a	1	
BCDL	10.0	Code FBC2017/TF			1.5.2(3.)		100		1 344-1-14-004-11	
DCDL	10.0	Code FBC201//11	212014	Matrix-MS					Weight: 364 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

21-22,20-21: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. All bearings 0-3-8.

(lb) - Max Horz 2=237(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-397(LC 8), 12=-597(LC 13), 10=-351(LC 9), 20=-722(LC

12)

Max Grav All reactions 250 lb or less at joint(s) 2, 10 except 12=1696(LC 1), 20=1916(LC 1)

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

2-3=-124/652, 3-4=-372/951, 4-5=-734/269, 5-6=-1273/498, 6-7=-1342/514, TOP CHORD

7-8=-1450/547, 8-9=-1213/471, 9-10=-202/690 **BOT CHORD**

2-20=-476/198, 19-20=-1056/632, 17-19=-198/827, 16-17=-110/1068, 15-16=-55/1225, 13-15=-149/1051, 12-13=-803/400, 10-12=-600/298

WEBS 3-20=-468/496, 4-20=-1253/549, 4-19=-531/1603, 5-19=-803/385, 5-17=-132/477,

6-16=-41/551, 7-16=-89/439, 8-15=-177/332, 8-13=-573/283, 9-13=-495/1714,

9-12=-1238/601

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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 2, 597 lb uplift at joint 12, 351 lb uplift at joint 10 and 722 lb uplift at joint 20.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd, Tampa FL 33610

September 17,2019

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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.



Structural wood sheathing directly applied or 4-3-6 oc purlins, except

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

2-0-0 oc purlins (3-2-15 max.): 6-7

10-0-0 oc bracing: 13-15.

1 Brace at Jt(s): 16, 19, 17

Job	Truss	Truss Type	Qty	Ply	EDGLEY CONST NIMS RES.		
L							T18135681
2089496	T01G	GABLE	2	1			
					Job Reference (optional)		
Builders FirstSource, Jacksonville, FL - 32244,			8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Sep 17 14:17:44 2019 Page 1				
	ID:SmyXhiHwtEQc8JpHzZKseMycjCN-zSNNSYA1qzPtwAFmznR_zBuXvORy8TXeO4M2MByciGb						
_{[2-0}		23-0-1	28-10-3		43-0-0	51-0-0	53-0-0
2-0-	0 10-0-0	13-0-1	5-10-2		14-1-13	8-0-0	2-0-0

Scale = 1:97.8

2-0-0

8-0-0

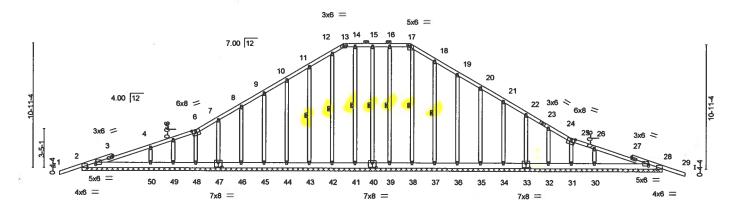


Plate Offsets (X,Y)-[2:0-0-4,0-2-5], [2:0-8-13,Edge], [6:0-4-0,0-1-9], [13:0-3-0,0-1-12], [17:0-3-0,0-1-12], [25:0-4-0,0-1-9], [28:0-8-13,Edge], [28:0-0-4,0-2-5], [33:0-4-0,0-4-8], [40:0-4-0,0-4-8], [47:0-4-0,0-4-8] LOADING (psf) SPACING-CSI. DEFL. 2-0-0 in (loc) I/defl 1 /d **PLATES** GRID Plate Grip DOL TCLL 20.0 1.25 TC 0.28 Vert(LL) 0.00 28-29 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.12 Vert(CT) 0.00 28-29 n/r 120 **BCLL** 0.0 Rep Stress Incr WB YES 0.16 Horz(CT) 0.02 28 n/a n/a BCDL Code FBC2017/TPI2014 10.0 Matrix-S Weight: 403 lb FT = 20%LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, **BOT CHORD** 2x6 SP No.2 except **OTHERS** 2x4 SP No.3 2-0-0 oc purlins (10-0-0 max.): 13-17. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt 15-40, 18-37, 17-38, 16-39, 11-43, 12-42,

REACTIONS. All bearings 51-0-0,

Max Horz 2=237(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 40, 31, 33, 39, 49, 48, 44, 42, 41 except 2=231(LC 8), 28=-226(LC 9), 30=-195(LC 9), 32=-112(LC 13), 34=-102(LC 13), 35=-101(LC 13), 36=-102(LC 13), 37=-109(LC 13), 50=-194(LC 8), 47=-104(LC 12), 46=-101(LC 12), 45=-102(LC 12), 43=-116(LC 12) Max Grav All reactions 250 lb or less at joint(s) 40, 31, 32, 33, 34, 35, 36, 37,

38, 39, 49, 48, 47, 46, 45, 44, 43, 42, 41 except 2=306(LC 23), 28=305(LC 24), 30=424(LC 24), 50=425(LC 23)

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

TOP CHORD 2-4=-315/170, 11-12=-176/264, 12-13=-192/276, 13-14=-186/272, 14-15=-186/272,

15-16=-186/272, 16-17=-186/272, 17-18=-197/287

BOT CHORD 2-50=-180/297, 49-50=-180/297, 48-49=-180/297, 47-48=-180/297, 46-47=-180/297,

45-46=-180/297, 44-45=-180/297, 43-44=-180/297, 42-43=-180/297, 41-42=-180/297, 40-41=-180/297, 39-40=-180/297, 38-39=-180/297, 37-38=-180/296, 36-37=-180/296,

35-36=-180/296, 34-35=-180/296, 33-34=-180/296, 32-33=-180/296, 31-32=-180/296,

30-31=-180/296, 28-30=-180/296

WEBS 26-30=-270/231, 4-50=-270/229

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members



Philip J. O'Regan PE No.58126 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

September 17,2019

Continued on page 2

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ANSI/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.



14-41

Job Qty Truss Truss Type Ply EDGLEY CONST. - NIMS RES. T18135679 2089496 PB01G GABLE Job Reference (optional) Jacksonville, FL - 32244, Builders FirstSource. 8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Sep 17 14:17:41 2019 Page 1 ID:SmyXhiHwtEQc8JpHzZKseMycjCN-ZtiEpW89X20I3jXBleuHLZG4vBP8x8ICi78NlsyciGe 2-11-1 2-11-1 Scale = 1:11.4 3x6 = 6.00 12 2 0-4-3 2x4 = 2x4 = 5-10-2 5-10-2 Plate Offsets (X,Y)-[3:0-3-0,Edge] LOADING (psf) 2-0-0 SPACING-CSI. DEFL. (loc) **Vdef PLATES** 20.0 TCLL Plate Grip DOL 1.25 TC 0.08 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 70 Lumber DOL 1.25 BC 0.19 Vert(CT) 0.00 5 120 n/r **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 BCDL Code FBC2017/TPI2014 10.0 Matrix-P Weight: 15 lb FT = 20% LUMBER-**BRACING-**2x4 SP No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-10-2 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. (lb/size) 2=178/3-11-0, 4=178/3-11-0 REACTIONS.

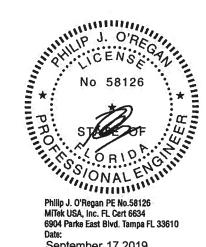
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

Max Uplift 2=-76(LC 12), 4=-76(LC 13)

Max Horz 2=-27(LC 13)

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2 and 76 lb uplift at
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

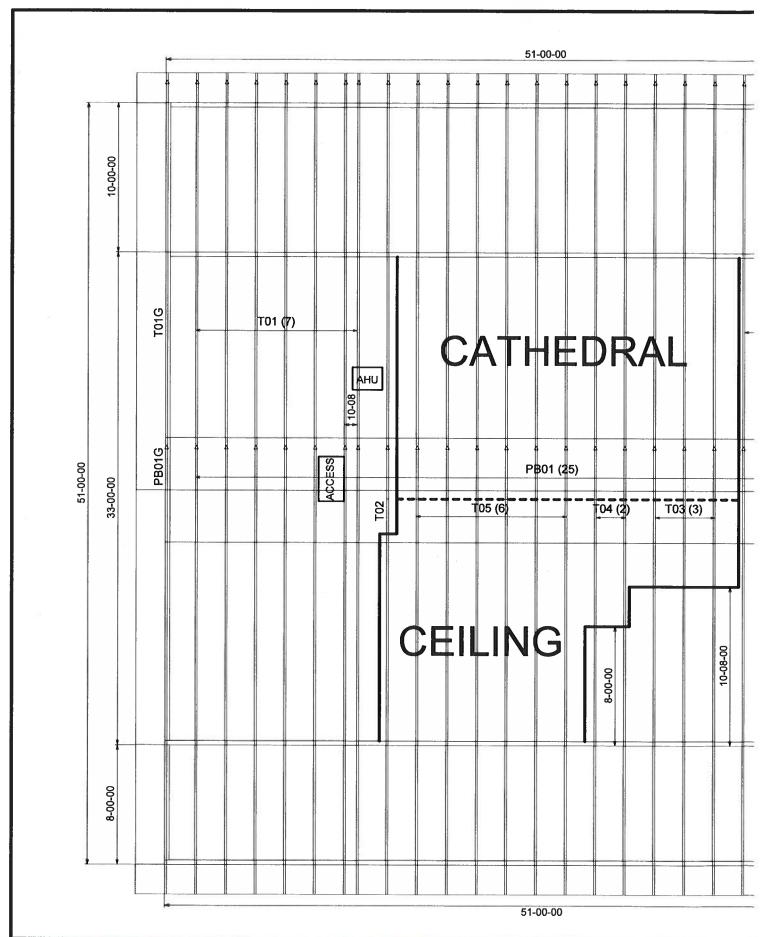


Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

September 17,2019

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