Columbia County New Building Permit Application Permit # For Office Use Only Application # 10000 Date Received MC Date Flood Zone Land Use ___ Zonina Zoning Official FEMA Map # Elevation MFE River Plans Examiner Comments □ NOC □ EH □ Deed or PA □ Site Plan □ State Road Info □ Well letter □ 911 Sheet □ Parent Parcel # □ In Floodway □ Letter of Auth. from Contractor □ F W Comp. letter □ Dev Permit # □ Owner Builder Disclosure Statement □ Land Owner Affidavit □ Ellisville Water □ App Fee Paid □ Sub VF Form Septic Permit No. 22-0624 386-752-1284 OR City Water 386-397-0545 Applicant (Who will sign/pickup the permit) Trent Giebeig Address 697 SE Holly Terrace, Lake City, FL 32025 Omega Properties Phone 386-391-6288 911 Address 765 SW Chesterfield Circle Lake CHUFT 32024 Contractors Name Trent Giebeig Construction, LLC 386-397-0545 Phone 697 SE Holly Terrace, Lake City, FL 32025 Address Contractor Email TrentGiebeigConstruction@gmail.com ***Include to get updates on this job. Fee Simple Owner Name & Address___ Bonding Co. Name & Address_ Architect/Engineer Name & Address coastal Engin pering and testing st A Mortgage Lenders Name & Address Circle the correct power company - FL Power & Light - Clay Ejec. - Suwannee Valley Elec. - Duke Energy Property ID Number 44-45-16-03117-104 Estimated Construction Cost Subdivision Name (NO 55 Wind 5 Driving Directions from a Major Road 515 tarwollane \$5500th turn Left Kicklighter turn right into Crosswind turn right on chesterfield circle job on right prist Erstine Construction of Concrete Floor/ Wood Frame Residential Number of Existing Dwellings on Property 0 Proposed Use/Occupancy Is the Building Fire Sprinkled?_____ If Yes, blueprints included____ Or Explain_ Circle Proposed - Culvert Permit or Culvert Waiver D.O.T. Permit or Actual Distance of Structure from Property Lines - Front 2/ Side 50

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

Columbia County Building Permit Application – "Owner and Contractor Signature Page"

CODES: 2020 Florida Building Code 7th Edition and the 2017 National Electrical Code.

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

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

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

Missell

Printed Owners Name	Owners Signature	<u>before</u> any permit will be issued.
	II the above written responsi	gree that I have informed and provided this bilities in Columbia County for obtaining hitations.
Contractor's Signature	Columbi	tor's License Number <u>CRC 1330693</u> ia County ency Card Number
Affirmed and subscribed before me the	Contractor by means of X ph	nysical presence or online notarization, this
Elaine K. Tolur. State of Florida Notary Signature (For the	SEAL:	ELAINE K. TOLAR MY COMMISSION # HH 149907 EXPIRES: October 2, 2025 Bonded Thru Notary Public Underwriters

**Property owners must sign here

Revised 1-12-21

STATE OF FLORIDA DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

APPLICATION FUR UNSITE SENTAGE DISPOSAL GIGIENTO	ONOTIOOTIOT =
Permit Appli	cation Number
PART II - SITEPLAN OT	4-Crosswinds

See Att

Notes:		is the			
74.	· ,				
2000		179	-1-1-2		
Site Plan submitted by:	1999	Vate:	7-14-2	022	MASTER CONTRACTOR
Plan Approved		Not Approve	1		Date 7/20/22
By SS		The state of the s	ETL	Culum	County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC (Stock Number: 6744-002-4015-6)

Page 2 of 4

4640-66 8 Delta Omega Properties Job (Frent G) 1"=40" Robed w FOR Lof # 4 7-14-2022 Crosswinds Proposed well? 3BL SIFRES. 30' G 33'

SW Chesterfield cr



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. 20 -069 4 DATE PAID: FEE PAID: RECEIPT #: 1818 9

APPLICATION FO	OR CONSTRUCTION PERMIT
MAILING ADDRESS: 7418E St	Asting System [] Holding Tank [] Innovative and Properties of Septictank a comcast, re H Flordia Septic Tank INC TELEPHONE: 384 155-6372 tate Rd. 100, Lake City, F132425
TO BE COMPLETED BY APPLICANT OF BY A PERSON LICENSED PURSUANT	OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR ING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.
PROPERTY INFORMATION LOT: A BLOCK: PM SUB	ostds remediation plan? [Y/N] BDIVISION:
PROPERTY ID #24-45-10-03	3117-104 zoning: i/m or equivalent: [y / n]
PROPERTY SIZE ON ACRES WA	ATER SUPPLY: [X] PRIVATE PUBLIC []<=2000GPD []>2000GPD
IS SEWER AVAILABLE AS PER 381	1.0065, FS? [Y N] DISTANCE TO SEWER:FT
DIRECTIONS TO PROPERTY:	
BUILDING INFORMATION	RESIDENTIAL [] COMMERCIAL
Unit Type of No Establishment	No. of Building Commercial/Institutional System Design Bedrooms Area Sqft Table I, Chapter 62-6, FAC
1 NEW home	3 1660
3	
4	
[] Floor/Equipment Drains	[] Other (Specify)
SIGNATURE: Pooles For	M999 DATE: 7-14-2022

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used) Incorporated 62-6.004, FAC



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

PERMIT #: 12-SC-2548595

APPLICATION #: AP1868397

DATE PAID: NISIZZ

FEE PAID: 30.00

RECEIPT #:

DOCUMENT #: PR1797939

CONSTRUCTION PERMIT FOR: OSTDS New	
APPLICANT: DELTA**22-0624 OMEGA PROPERTIES	
PROPERTY ADDRESS: 765 SW CHESTERFIELD Lake City, FL 32024	
700 SW OTILOTEIN ILLD Lake City, TE 32024	
LOT: 4 BLOCK: SUBDIVISION: Crosswinds Phase I	
PROPERTY ID #: 03117-104 [SECTION, TOWNSHIP, RANGE, PARK [OR TAX ID NUMBER]	CEL NUMBER]
SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDAY 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.	ES NOT GUARANTEE MATERIAL FACTS, TO MODIFY THE NULL AND VOID.
SYSTEM DESIGN AND SPECIFICATIONS T [400] GALLONS / GPD	
A TYPE SYSTEM: [X] STANDARD [] FILLED [] MOUND [] I CONFIGURATION: [X] TRENCH [] BED []	
N	
F LOCATION OF BENCHMARK: Edge of road by stop sign	
I ELEVATION OF PROPOSED SYSTEM SITE [0.00] [INCHES FT] [ABOVE BELOW] BENCHMARK/R E BOTTOM OF DRAINFIELD TO BE [24.00] [INCHES FT] [ABOVE BELOW] BENCHMARK/R L	
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [] INCHES	
The system is sized for 3 bedrooms with a maximum occupancy of 6 persons (2 per bedroom), for a total estimate 300 gpd.	ed flow of
System will be 50% nitrogen reducing ATU as required by BMAP restriction in code, using a 24" water table separ Nitrogen reducing NSF-245 certified aerobic treatment unit required. Maintenance contract and operating permitti required.	
R	
SPECIFICATIONS BY: Robert Ford TITLE: Master Contractor	
APPROVED BY: TITLE: Environmental Specialist I	Columbia CHD
DATE ISSUED: 07/20/2022 EXPIRATION DATE:	01/20/2024
DH 4016, 08/09 (Obsoletes all previous editions which may not be used)	Page 1 of 3

PAT LYNCH LYNCH DRILLING CORP P O Box 934 Branford, FL 32008 (386) 935-1075

DATE: August 19, 2022

CUSTOMER: Delta Omega Properties

3454 SW CR 242 Lake City, FL 32025

LOCATION: 24-4S-16-03117-104

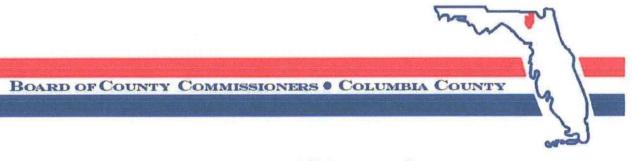
WE WILL CONSTRUCT A 4" WATER WELL COMPLETE WITH 4" WATER WELL STEEL CASING, 1 HP SUBMERSIBLE PUMP (20 GPM) WITH 1 1/4" DROP PIPE, AND AN 86 GALLON CAPTIVE AIR TANK (21.9 GALLON DRAWDOWN).

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 AE SUBJECT TO APPROVAL FROM THE CUSTOMER AND/OR CONTRACTOR PRIOR TO COMMENSMENT OF THE INDIVIDUAL JOB.

THANK YOU

NOT RESPONSIBLE FOR THE QUALITY OF WATER



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:

6/22/2020 2:42:15 PM

Address:

765 SW CHESTERFIELD CIR

City:

LAKE CITY

State:

FL

Zip Code

32024

Parcel ID

24-4S-16-03117-104

REMARKS:

This address is a verified address in the county's addressing system.

Verification ID: ffa255b3-dbeb-40ad-8e7b-5f6cf1635087

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:

GIS Specialist

Columbia County GIS/911 Addressing Coordinator

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #	JOB NAME

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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 Dennis Conklin Signature	Need Z Lic
000	Company Name: D & S Lighting & Electric	Liab
CC#	License #: 13003800 Phone #: 386-623-9055	= DE W/C
MECHANICAL/	Print Name D.L. Williams Signature	Need
A/C V	Company Name: D L Williams Heating & Cooling, LLC	= Lic = tiab
CC#	License #: CAC 1816913 Phone #: 386-754-1987	- I W/C I EX I DE
PLUMBING/	Print Name Ken Roche Signature Kunkauhe	Need
GAS 🗸	Company Name: Ken Roche Plumbing Now	Uc Uiab
CC#	License #: CFC 1426527 Phone #: 386-755-9243	- L W/C - FX - DE
ROOFING	Print Name Trent Giebeig Signature Aut Miller	Need
V	Company Name: Trent Giebeig Construction, Inc.	E Liab
CC#	License #: CRC 1330693 Phone #: 386-397-0545	EX DE
SHEET METAL	Print NameSignature	Need
	Company Name:	I Lic
CC#	License #: Phone #:	= W/c
FIRE SYSTEM/	Print NameSignature	Need Lic
SPRINKLER	Company Name:	T. Liab
CC#	License#: Phone #:	□ W/c □ EX
SOLAR	Print NameSignature	DE Need
П	Company Name:	I tis
CC#		I W/C
	License #: Phone #:	_ DE Need
STATE	Print NameSignature	I Lic
SPECIALTY	Company Name:	T Liab
CC#	License #:Phone #:	I EX

Return to:

Bennett & Morgan, LLP 234 East Duval Street Lake City, Florida 32055

This Instrument Prepared by:

Bennett & Morgan, LLP 234 East Duval Street Lake City, Florida 32055

Inst:2006000071 Date:01/04/2006 Time:09:17

Doc Stamp-Deed : 2240.00 DC,P.DeWitt Cason,Columbia County B:1070 P:285

Grantee:

Delta Omega Properties, Inc.

WARRANTY DEED

THIS INDENTURE, made this day of combo, 2005, between JAMES RHETT SMITHEY, BRYAN B. SMITHEY, CAROL ANN DEPRATTER, n/k/a CAROL ANN SMITHEY, and ETHELIND FRANCES SMITHEY LYNCH, whose post office address is 3454 SW CR 242, Lake City, Florida 32024, Grantors, and DELTA OMEGA PROPERTIES, INC., whose post office address is 3454 SW CR 242, Lake City, Florida 32024, Grantee.

WITNESSETH:

That said Grantor, for and in consideration of the sum of \$10.00 and other valuable considerations, the receipt whereof is hereby acknowledged, has granted, bargained and sold unto the Grantee the following described land, situate, lying and being in Columbia County, Florida, to-wit:

TOWNSHIP 4 SOUTH - RANGE 16 EAST

SECTION 24 Commence at the NW corner of the SE 1/4 of Section 24, Township 4 South, Range 16 East, Columbia County, Florida and run N 86°28'52" E along the North line of said SE 1/4, being also the center line of Cannon Creek Road, 1623.55 feet; thence S 03°31'08" E, 25.00 feet to a point on the Southerly right-of-way line of said Cannon Creek Road; thence continue S 03°31'08" E, 358.48 feet to the POINT OF BEGINNING; thence N 86°28'52" E, 567.49 feet to a point on the Westerly right-of-way line of a 66 foot County Road; thence S 27°34'38" E, along said Westerly right-of-way line, 291.40 feet to the point of a curve of a curve concave to the West having a radius of 267.00 feet and a central angle of 26°50'00", said curve also having a chord bearing of S 14°09'38" E, and a chord distance of 123.93 feet; thence Southerly along the arc of said curve, being also the Westerly right-of-way line 125.04 feet to the point of tangency of

said curve; thence S 00°44'38" E, still along said Westerly right-of-way line, 15.03 feet; thence S 86°28'52" W, 708.39 feet; thence N 03°31'08" W, 402.52 feet to the POINT OF BEGINNING. Containing 6.00 acres, more or less.

AND

N 1/2 of SE 1/4 of Section 24, Township 4 South, Range 16 East, containing 72 acres, more or less; EXCEPT: a parcel of land in the NW 1/4 of SE 1/4 of Section 24, Township 4 South, Range 16 East, described as follows: Commencing at the NW corner of NW 1/4 of SE 1/4 of Section 24, Township 4 South, Range 16 East, run thence North 87°04'22" East, a distance of 374 feet, run thence South 1°41'38" East, a distance of 25 feet to a point on the South R/W line of county road, this being the point of beginning of the parcel of land hereinafter described, run thence North 87°04'22" East, a distance of 370 feet, run thence South 1°41'38" East, A distance of 360 feet, run thence South 87°04'22" West, a distance of 370 feet, run thence North 1°41'38" West, a distance of 360 feet to the point of beginning. And Also Except: right of way for Interstate Highway No. 75.

LESS AND EXCEPT:

Commence at the Northwest corner of the Southeast 1/4 of Section 24, Township 4 South, Range 16 East, Columbia County, Florida and run N 86°28'52" E along the North line of said Southeast 1/4 a distance of 1152.83 feet; thence S 01°46'08" E 25.01 feet to a point on the Southerly maintained Right-of-Way line of Cannon Creek Road (a county graded road) and the POINT OF BEGINNING; thence N 86°28'52" E along said Southerly maintained Right-of-Way line, being parallel to the North line of said Southeast 1/4 a distance of 205.00 feet; thence S 01°46'08" E 351.65 feet; thence S 86°28'52" W parallel to the North line of said Southeast 1/4 a distance of 205.00 feet; thence N 01°46'08" W 351.65 feet to the POINT OF BEGINNING. Containing 1.65 acres, more or less.

LESS AND EXCEPT:

A portion of the NW 1/4 of the SE 1/4, Section 24, Township 4 South, Range 16 East, Columbia County, Florida;

Parcel #1. Commence at the NW corner of SE 1/4 of Section 24, Township 4 South, Range 16 East. Run thence along the North line of SE 1/4 Section 24, North 86°28'52" East, 756.83 feet. Run thence South 1°46'08" East 25.01 feet to the South line of a county maintained road and the POINT OF BEGINNING; Run thence along said South line of county maintained road North 86°28'52" East, 132.00 feet; Run thence South 1°46'08" West 351.65 feet to POINT OF BEGINNING. Containing 1.07 acres more or less.

LESS AND EXCEPT:

Commence at the Northwest corner of the Southeast 1/4 of Section 24, Township 4 South, Range 16 East, Columbia County, Florida and run N 86°28'52" East along the North line of said Southeast 1/4, being also the centerline of

Cannon Creek Road 1623.55 feet; thence S 03°31'08" East 25.00 feet to a point on the Southerly Right-of-Way line of said Cannon Creek Road and the POINT OF BEGINNING; thence N 86°28'52" East along said Southerly Right-of-Way line, being parallel to the North line of the Southeast 1/4 a distance of 351.36 feet; thence S 01°35'38" East 2.73 feet to a point on the Southerly Right-of-Way line of a 66 foot County Road; thence N 88°24'22" East along Southerly Right-of-Way line 16.49 feet to the Point of Curve of a curve concave to the Southwest having a radius of 67.00 feet and a central angel of 64°01'52", said curve also having a Chord bearing of S 59°31'08" East and Chord distance of 71.04 feet; thence Southeasterly along the arc of said curve, being also said Southerly Rightof-Way line of a 66 foot County Road 74.88 feet to the Point of Tangency of said curve; thence S 27°34'38" East along the Westerly Right-of-Way line of said 66 foot County Road 345.49 feet; thence S 86°28'52" West parallel to the North line of the Southeast 1/4 a distance of 567.49 feet; thence N 03°31'08" West 358.48 feet to the POINT OF BEGINNING. Containing 4.00 acres, more or less.

and said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

This document was prepared with a property description furnished to the preparer, and without the benefit of a survey, or any title search. The parties, their heirs, successors, or assigns hereby agree to indemnify and hold harmless the preparer for any damages including reasonable attorney fees resulting from an inaccurate or improper legal description.

IN WITNESS WHEREOF, Grantors have hereunto set their hands and seals the day and year first above written.

Signed, sealed and delivered in our presence:

Witness to JAMES RHETT SMITHEY and BRYAN B. SMITHEY

JAMES RHETT SMITHEY,

Jessica D. Chandler Print or type name

Ungela H. Cranford Witness to JAMES RETT SMITHEY Bryon B Smither (SEAL)

and BRYAN B. SMITHEY

Angela H. Cranford

Inst:2006000071 Date:01/04/2006 Time:09:17

Doc 5tamp-Deed : 2240.00

__DC,P.DeWitt Cason,Columbia County B:1070 P:287

i.
Witness to CAROL ANN SMITHEY and ETHELIND SMITHEY LYNCH CAROL ANN DEPRATTER, n/k/h CAROL ANN SMITHEY
Jessica B. Chandlek Print or type name
Witness to CAROL AND SMITHEY AND SMITHEY LYNCH ETHELIND SMITHEY LYNCH ETHELIND SMITHEY LYNCH
Angla H. Cranford Print or type name
Inst:2006000071 Date:01/04/2006 Time:09:17 Doc Stamp-Deed: 2240.00
STATE OF FLORIDADC,P. DeWitt Cason,Columbia County B: 1070 P:288
COUNTY OF COLUMBIA
The foregoing instrument was acknowledged before me this
day of Leember, 2005, by JAMES RHETT SMITHEY, who is personally
known to me or who has produced, BRYAN B.
SMITHEY, who is personally known to me or who has produced
, CAROL ANN DEPRATTER, n/k/a CAROL ANN
SMITHEY who is personally known to me or who has produced
, and ETHELIND FRANCES SMITHEY LYNCH, who is
personally known to me or who has produced
WITNESS my hand and official seal in the County and State last
aforesaid this 8th day of December, 2005.
ANGELA H. CRANFORD Notary Public - State of Florida My Commission # DD161997 Bonded By National Notary Assn. (NOTARIAL SEAL) ANGELA H. CRANFORD Notary Public - State of Florida NOTARY PUBLIC - STATE OF FLORIDA Print or type name

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #	JOB NAME	

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

ELECTRICAL	Print Name Dennis Conklin Signature	Need C Lic
0	Company Name: D & S Lighting & Electric	- 1100
CC#	License #: 13003800 Phone #: 386-623-9055	= EX
MECHANICAL/	Print Name D.L. Williams Signature	Need Lic
A/C	Company Name: D L Williams Heating & Cooling, LLC	= tab
CC#	License #: CAC 1816913 Phone #: 386-754-1987	= EX
PLUMBING/	Print Name Ken Roche Signature Kunkauhe	Need Need
GAS 🗸	Company Name: Ken Roche Plumbing Now	T Uc T Liab
CC#	License #: CFC 1426527 Phone #: 386-755-9243	- FX
ROOFING	Print Name Trent Giebeig Signature And Millian	Need Need
4	Company Name: Trent Giebeig Construction, Inc.	□ Lis □ Liab
CC#	License #: CRC 1330693 Phone #: 386-397-0545	2 W/c 2 EX
SHEET METAL	Print NameSignature	L DE Need
	Company Name:	I Lic I Liab
CC#	License #: Phone #:	= w/c = ex = DE
FIRE SYSTEM/	Print NameSignature	Need Lic
SPRINKLER	Company Name:	T Liab
CC#	License#: Phone #:	I EX
SOLAR	Print NameSignature	Need
	Company Name:	I tiab I W/c
CC#	License #: Phone #:	C EX
STATE	Print NameSignature	Need Lic
SPECIALTY	Company Name:	I Liab
CC#	License #:Phone #:	I EX I DE

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



COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2020 EFFECTIVE 1 JANUARY 2021 AND THE NATIONAL ELECTRICAL 2017 EFFECTIVE 1 JANUARY 2021

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 1609.1 THRU 1609.6.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609.3(1)
THROUGH 1609.3(4) ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER
STRUCTURES Revised 7/1/20

Total (Sq. Ft.) under roof

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal

Items to Include-Each Box shall be

Circled as

Applicable Select/From Drop down

No

Yes

NA

Submit Online at- 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

shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES BUILDING 107.1.

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

1660

Condition space (Sq. Ft.)

Site Plan information including:

4	Dimensions of lot or parcel of land	- 1		
5	Dimensions of all building set backs	-		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	-		
7	Provide a full legal description of property.	-/		
w	ind-load Engineering Summary, calculations and any details are required. GENERAL REQUIREMENTS:	Iter	ns to Inclu	de-
APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA
		Select Fr	om Drop	down
9	Basic wind speed (3-second gust), miles per hour	-		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	- /		
11	Wind importance factor and nature of occupancy	-		
12	The applicable internal pressure coefficient, Components and Cladding	-		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.			
El	evations Drawing including:			
14	All side views of the structure	1-		T
15	Roof pitch	-		
16	Overhang dimensions and detail with attic ventilation	-		
17	Location, size and height above roof of chimneys	- 1		
18	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	-		

21 deck, balconies Raised floor surfaces located more than 30 inches above the floor or grade 22 23 All exterior and interior shear walls indicated Shear wall opening shown (Windows, Doors and Garage doors) 25 Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBCR 312.2.1 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass. Safety glazing of glass where needed Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR) 27 28 Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails Identify accessibility of bathroom (see FBCR SECTION 320) All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form) GENERAL REQUIREMENTS: Items to Include-APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Each Box shall be Circled as Applicable FBCR 403: Foundation Plans Select From Drop down 30 Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing. All posts and/or column footing including size and reinforcing Any special support required by soil analysis such as piling. Assumed load-bearing valve of soil Pound Per Square Foot Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3 FBCR 506: CONCRETE SLAB ON GRADE 35 | Show Va or retarder (6mil. Polyethylene with joints overlaid 6 inches and sealed) 36 Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports FBCR 318: PROTECTION AGAINST TERMITES Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls) 38 Show all materials making up walls, wall height, and Block size, mortar type 39 Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

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

Floor Plan Including:

Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches,

FI	oor Framing System: First and/or second story					
	Floor truss package shall including layout and details, signed and sealed by Florida Registered		T			
40	Professional Engineer	-				
	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,					-
41	stem walls and/or priers	-				
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	-				
43		-				П
44	Wind load requirements where applicable	-				
45	Show required under-floor crawl space	-				-
46	Show required amount of ventilation opening for under-floor spaces	-				c C
47	Show required covering of ventilation opening	-				
48	Show the required access opening to access to under-floor spaces	-		-		-
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &					
49	intermediate of the areas structural panel sheathing	-		- 1		
50	Show Draftstopping, Fire caulking and Fire blocking	-				
51		-				
52		-			4	
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION					
	是2.5000000000000000000000000000000000000	Ite	ems to	o Includ	le-	
	GENERAL REQUIREMENTS:	Ea	ich Bo	ox shall	be	
1	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			cled as		1
				olicable		
	Se	elect f	rom	Drop	dow	ï
53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	- 1				
54	Fastener schedule for structural members per table FBC 2304.10.1 are to be shown	-				
	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural					
55	members, showing fastener schedule attachment on the edges & intermediate of the areas structural	- 1				
	panel sheathing					
	Show all required connectors with a max uplift rating and required number of connectors and					
56	oc spacing for continuous connection of structural walls to foundation and roof trusses or	-				
	rafter systems					
	Show sizes, type, span lengths and required number of support jack studs, king studs					
57	for shear wall opening and girder or header per FBC 2304.3.					
58		-				
	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural	_				
59	panel sheathing edges & intermediate areas	1				
60	A detail showing gable truss bracing, wall balloon framing details or/and wall hinge bracing detail	- '				
-	DO DOOR OVETEND.					
-	BC :ROOF SYSTEMS:					
61		- 1				
62		-				
63		-				
64		-				
65	Provide dead load rating of trusses	-				
F	BC 2304.4:Conventional Roof Framing Layout					
66	Rafter and ridge beams sizes, span, species and spacing	- 1				
67		-				
68	Valley framing and support details	-				
69		-				
			-		1	
FI	BC 2304.8 ROOF SHEATHING					
70	Include all materials which will make up the roof decking, identification of structural panel	1	T			
	sheathing, grade, thickness	-				
71		- 1				

R	OOF ASSEMBLIES FRC Chapter 15				
72	Include all materials which will make up the roof assembles covering	-	1		
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	-			
Res bui Con req med	BC Energy Chapter 4 idential construction shall comply with this code by using the following compliance methods in the F ldings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an alter inpliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form uirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complyet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point acceptable for code compliance.	native 600 A ing by	to the may this a	e compi be usea ilternat	uterizea d. All tive shal
	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Each E Ci Ap	to Inch Box sha reled as oplicabl	all be s le
		elect	fron	Drop	Down
74	9	-	1		
75	Attic space	-	1		-
76	Exterior wall cavity	-	-	-	-
77	Crawl space	ļ			
H	VAC information				
78		1-		Ι	1
79	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or		1	-	1
	20 cfm continuous required	-			
80 Show clothes dryer route and total run of exhaust duct					
DI	umbing Fixture layout shown				
	All fixtures waste water lines shall be shown on the foundationplan	1_	1		1
82		-	1		1
	ivate Potable Water	-			
Military	Pump motor horse power	1-	1		T
	Reservoir pressure tank gallon capacity	1.	+-		+
	Rating of cycle stop valve if used	-	-		1
02	reading of bytes stop rairon asea	1	1		1
E	ectrical layout shown including				
86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-	1		
87			1		
	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	-			
88		-			
89	Show service panel, sub-panel, location(s) and total ampere ratings	-			
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service	-	Ϋ́		
	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				
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

ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT. Select from Drop down Building Permit Application A current Building Permit Application is to be completed. by following the Checklist all supporting documents must be submitted. 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 95 Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058 96 City of Lake City A City Water and/or Sewer letter. Call 386-752-2031 97 Toilet facilities shall be provided for all construction sites 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. 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 (Municpde.cpm) CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required. 101 A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00 Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size 102 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. 911 Address: An application for a 911 address must be applied for and received through the Columbia 103 County Emergency Management Office of 911 Addressing Department (386) 758-1125.

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

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			The second secon
A. SWINGING	Maganite	inswing & Outswing Steel	E1. 5465-R VO
B. SLIDING	110747	1/1/201/201/	1000
C. SECTIONAL/ROLL UP			
D. OTHER			
	1		i
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI	Vinyl 3540 Stryk Hury	FL-17676-RI
B. HORIZONTAL SLIDER		The state of the state of	1
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
	1		
3. PANEL WALL			
A. SIDING	James Hardi	Cement Board Las Sidily	FL-13192-R
B. SOFFITS	Kayean	Ving / PVC & Aluminum soffit	E1-16503-81
C. STOREFRONTS	The second	1 1191/ 1 = 1 11 full branches / Secret	TE 10303 PX
D. GLASS BLOCK	1		
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	GAF	Asplant Shingles	FL-10124- R.
B. NON-STRUCT METAL		(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	- Land Control of the
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			0
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.



ROOFING UNDERLAYMENT AFFIDAVIT

Columbia County, Florida Building Department 135 NE Hernando Avenue Lake City, Florida 32055 Phone: 386-758-1008

www.columbiacountyfla.com

REQUIRED FOR WALK-IN OR PAPER SUBMITTALS
Job Address: 765 SW Chesterfield Circle
I (<u>Print Name</u>) Treat Greeting, as a Florida license Roofing Contractor or an Owner Builder, I understand to comply with the 2020 Florida Building Code 7 th Edition underlayment requirements, I must select an option for sealing the roof deck.
The options are summarized below
a self-adhering polymer-modified bitumen underlayment complying with ASTM D1970 applied over the entire roof.
a minimum 4-inch wide strip of selfadhering polymer-modified bitumen complying with ASTM D1970 or a minimum 3 ¾ - inch wide strip of selfadhering flexible flashing tape complying with AAMA 711, applied over all joints in the roof decking. A felt underlayment complying with ASTM D226 Type II, ASTM D4869 Type III or IV, or ASTM D6757, or a synthetic underlayment meeting the performance requirements specified, is required to be applied over the strips/tape over the entire roof. two layers of felt underlayment comply ASTM 0226 Type II or ASTM D4869 Type III or IV, or two layers of a synthetic underlayment meeting the performance requirements specified, lapped and fastened as specified.
Other (explain)
Contractor/Owners Signature

FINAL INSPECTION & CERTIFICATE OF COMPLETION:

This completed form and photographs must be uploaded to your permit via online at the Application Submission login (link) Welcome to Columbia County Online (columbiacountyfla.com).

Clearly visible in the Photographs must be the permit number or address and must include a ruler or measuring device to confirm nail spacing and overlaps including drip edge and valley flashing.

Residential System Sizing Calculation

Summary

Trent Giebeig Anyplace Lake City, FL 32055 Project Title: Lot 4 Crosswinds sub

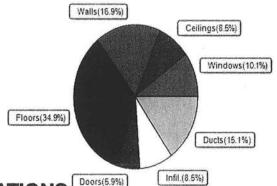
7/28/2022

Location for weather data: Gaine	sville, FL -	Defaults: L	atitude(29.7) Altitude(152 ft.) Tem	p Range(M)	
Humidity data: Interior RH (50%) Outdoor	wet bulb (7	77F) Humidity difference(51gr.)	E	
Winter design temperature(TMY3	99%) 30	F	Summer design temperature(TMY	3 99%) 94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	24078	Btuh	Total cooling load calculation	15532	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	100.0	24078	Sensible (SHR = 0.75)	88.2	11649
Heat Pump + Auxiliary(0.0kW)	100.0	24078	Latent	167.1	3883
T. T. T.			Total (Electric Heat Pump)	100.0	15532

WINTER CALCULATIONS

Winter Heating Load (for 1600 sqft)

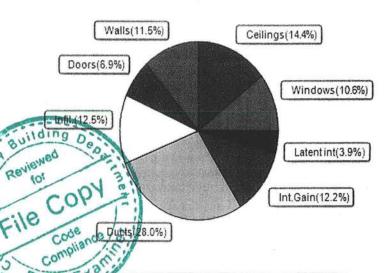
Load component			Load	
Window total	111	sqft	2442	Btuh
Wall total	1261	sqft	4077	Btuh
Door total	78	sqft	1431	Btuh
Ceiling total	1600	sqft	2038	Btuh
Floor total	1600	sqft	8402	Btuh
Infiltration	47	cfm	2050	Btuh
Duct loss			3638	Btuh
Subtotal			24078	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			24078	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1600 sqft)

Load component			Load	
Window total	111	sqft	1642	Btuh
Wall total	1261	sqft	1792	Btuh
Door total	78	sqft	1073	Btuh
Ceiling total	1600	sqft	2242	Btuh
Floor total			0	Btuh
Infiltration	35	cfm	730	Btuh
Internal gain		- 1	1890	Btuh
Duct gain		- 1	3838	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain		- 1	13209	Bluh
Latent gain(ducts)		1	512	Btuh
Latent gain(infiltration)			1212	Bruh
Latent gain(ventilation)		1	0	Bluh
Latent gain(internal/occu	pants/othe	r)	600	Btuh
Total latent gain			2324	Btuh
TOTAL HEAT GAIN			15532	Btuh



Powered by

ACCA

MANUAL Ja

EnergyGauge® System Sizing
PREPARED BY: William H. Freeman
DATE: 8-5-22

Florida Building Code, Energy Conservation, 7th Edition (2020) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:	Anyplace	Permit Number:
	Lake City, FL, 32055	

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

7/26/2022 8:59 PM

MANDATORY REQUIREMENTS - (Continued) R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8. **Exceptions:** Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. 1. 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. R403.3.2 Sealing (Mandatory) All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below. Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3. R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193. R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods: Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire 2. system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. **Exceptions:** 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Qn to the outside of less than 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums. R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3. R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted. R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory). If heated water circulation systems are installed, they 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

demand for hot water.

times when heated water is used in the occupancy.

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

R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the

M	ANDATORY REQUIREMENTS - (Continued)
Ø	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).
V	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.
Ø	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.
Ø	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 an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.
\Box	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.

R403.7.1 Equipment sizing (Mandatory). 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 ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
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

MANDATORY 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 R403.7, 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: 1. 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: 1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas. 2. 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 Florida Building Code, Energy Conservation—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

Exceptions:

section.

- 1. Where public health standards require 24-hour pump operation.
- 2. Pumps that operate solar- and waste-heat-recovery pool heating systems.

power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

3. Where pumps are powered exclusively from on-site renewable generation.

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

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

П	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). The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	R403.13 Dehumidifiers (Mandatory If installed, a dehumidifier shall conform to the following requirements:
	 The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.
	R403.13.1 Ducted dehumidifiers. Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:
	 If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.
	SECTION R404
ELE	ECTRICAL POWER AND LIGHTING SYSTEMS
Ø	R404.1 Lighting equipment (Mandatory). Not less than 90 percent of the lamps in permanently installed luminaires shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.

R404.1.1 Lighting equipment (Mandatory).

Fuel gas lighting systems shall not have continuously burning pilot lights.

2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:

Lot 4 Crosswinds sub

Street:

Anyplace

City, State, Zip: Owner:

Lake City, FL, 32055 Trent Giebeig

Builder Name: Trent Giebeig Permit Office: Columbia County

Permit Number: Jurisdiction:

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Design Location:	ign Location: FL, Gainesville				
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA			
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.			
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.			
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.			
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.				
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.			
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls	\$.		
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 spa	ces.			
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	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 supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or				
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. not log walls shall be in accordance with the provisions of ICC-400.				

Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:
Job Information	
Builder: Trent Giebeig Community:	Lot: 4
Address: Anyplace	
City: Lake City State	: FL Zip: 32055
Air Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method
changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim	all be tested and verified as having an air leakage rate of not exceeding or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.
x 60 ÷ 5.295475E32 = CFM(50) Building Volume ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation in must be verified by building department.	Method for calculating building volume: Retrieved from architectural plans Code software calculated Field measured and calculated
R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/F Testing shall be conducted by either individuals as defined in Section 553.9 489.105(3)(f), (g), or (i) or an approved third party. A written report of the reprovided to the code official. Testing shall be performed at any time after creating shall be performed at any ti	993(5) or (7), Florida Statues.or individuals licensed as set forth in Section sults of the test shall be signed by the party conducting the test and
During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, be control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dampers measures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery vent 5. Heating and cooling systems, if installed at the time of the test, shall be full 6. Supply and return registers, if installed at the time of the test, shall be full	pers shall be closed, but not sealed beyond intended infiltration control illators shall be closed and sealed.
Testing Company	
Company Name: I hereby verify that the above Air Leakage results are in accordance Energy Conservation requirements according to the compliance management.	
Signature of Tester:	Date of Test:
Printed Name of Tester:	
License/Certification #:	Issuing Authority:

Duct Leakage Test Report Residential Prescriptive, Performance or ERI Method Compliance

Jurisdiction:		Permit #:					
Job Information							
Builder: Trent Giebeig	Community:	Lot: 4					
Address: Anyplace							
City: Lake City	State	: FL Zip: 32055					
Duct Leakage Test Results							
System 1cfm25	○ Prescriptiv	ve Method cfm25 (Total)					
System 2cfm25	To qualify as "substantially leak free" Qn Total must be less than or equal to 0.04 if air handler unit is installed. If air handler unit is not						
System 3cfm25	installed, Qn	Total must be less than or equal to 0.03. This testing s the requirements in accordance with Section R403.3.3.					
Sum of otherscfm25	Is the air handler unit installed during testing? \square YES ($\stackrel{5}{\circ}$ 0, \square NO ($\stackrel{5}{\circ}$ 0, \square						
Total of allcfm25	Performance/ERI Method cfm25 (Out or Total)						
Total of all systems Square Footage Qn	To qualify using this method, Qn must not be greater than the Leakage Type selected on Form						
PASS FAIL	Proposed C	Qn 0.04					
Duct tightness shall be verified by testing in a 553.993(5) or (7), Florida Statutes, or individu	ccordance with ANSI/I	RESNET/ICC380 by either individuals as defined in Section th in Section 489.105(3)(f), (g) or (i), Florida Statutes.					
Testing Company							
Company Name:	testing results are in a	Phone:ccordance with the Florida Building Code requirements with the					
Signature of Tester:		Date of Test:					
Printed Name of Tester:	to the second second second						
License/Certification #:		Issuing Authority:					



RE: 3250275

GIEGEIG CONST. - LOT 4 CW

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer: GIEBEIG CONST. Project Name: 3250275

Lot/Block: 4 Model: St. Johns Modified Address: TBD SW Chesterfield Circle Subdivision: Crosswinds

City: Columbia Cty State: FL

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

Design Code: FBC2020/TPI2014

Wind Code: ASCE 7-16 Roof Load: 37.0 psf Design Program: MiTek 20/20 8.5

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

This package includes 25 individual, dated Truss Design Drawings and 0 Additional Drawings.

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

No. Seal# Truss Name Date No. Seal# Truss Name Date T28368045 T15 7/27/2022 T28368025 **CJ01** 7/27/2022 21 1 7/27/2022 **CJ03** 7/27/2022 22 T28368046 T16 T28368026 7/27/2022 3 T28368027 **CJ05** 7/27/2022 23 T28368047 T17 T17G T28368048 7/27/2022 **EJ01** 7/27/2022 24 4 T28368028 T28368049 T18 7/27/2022 25

2 7/27/2022 5 HJ₁₀ T28368029 6 T01 7/27/2022 T28368030 7 T28368031 T01G 7/27/2022 7/27/2022 8 T28368032 T02 T03 7/27/2022 9 T28368033 10 T28368034 T04 7/27/2022 T05 7/27/2022 11 T28368035 T06 7/27/2022 12 T28368036 13 T28368037 T07 7/27/2022 14 T28368038 T08 7/27/2022 T09 7/27/2022 15 T28368039 16 T28368040 T10 7/27/2022 17 T28368041 T11 7/27/2022 7/27/2022 T12 18 T28368042 7/27/2022 T13 19 T28368043 20 T28368044 T14 7/27/2022



This item has been electronically signed and sealed by Magid, Michael using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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-Lake City, FL.

Truss Design Engineer's Name: Magid, Michael

My license renewal date for the state of Florida is February 28, 2023.

Florida COA: 6634

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. Any project specific information included is for MiTek

customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.

Mitch Inc. DBA Mitch USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 27, 2022

Job Truss Truss Type GIEGEIG CONST. - LOT 4 CW Qty T28368025 3250275 **CJ01** Jack-Open 10 Job Reference (optional) 8.530 s Dec. 6 2021 MiTek Industries, Inc. Wed Jul 27 06:53:04 2022 Page 1 ID:fRijugoliQj9qlqT_5CiYdzq7NP-cN19ccQmlV6ktB8Q8yBHMTjaFYQcLAmkZ64oh5ytxfT Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Scale = 1:8.2 6.00 12 3x4 = 1-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.25 TC 0.14 Vert(LL) 0.00 >999 240 MT20 244/190

LUMBER-

TCDL

BCLL

BCDL

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

7.0

10.0

0.0

BRACING-

Vert(CT)

Horz(CT)

0.00

0.00

>999

2 n/a

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

Weight: 6 lb

FT = 20%

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

180

n/a

REACTIONS.

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

Code FBC2020/TPI2014

Lumber DOL

Rep Stress Incr

Max Horz 2=39(LC 12)

Max Uplift 3=-6(LC 1), 2=-67(LC 12), 4=-19(LC 1) Max Grav 3=7(LC 16), 2=179(LC 1), 4=18(LC 16)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

BC

WB 0.00

0.03

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

1.25

YES

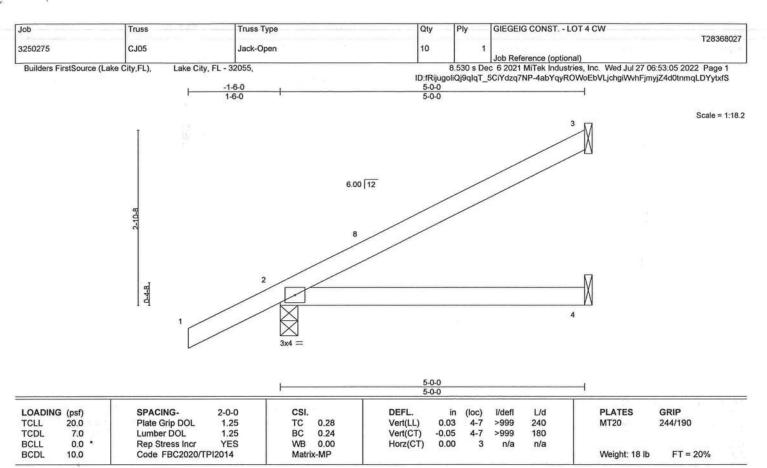
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

This item has been electronically signed and sealed by Magid, Michael, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael S. Magid PE No. 53681 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 27,2022





LUMBER-

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

BRACING-

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

REACTIONS.

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

Max Horz 2=107(LC 12)

Max Uplift 3=-67(LC 12), 2=-65(LC 12) Max Grav 3=113(LC 1), 2=276(LC 1), 4=88(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

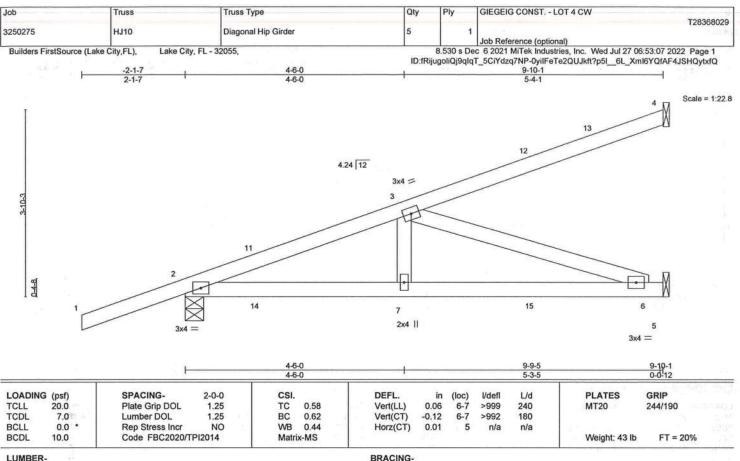
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Michael S. Magid PE No.53681 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd, Chesterfield, MO 63017

July 27,2022

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Componing Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical

Max Horz 2=149(LC 22)

Max Uplift 4=-77(LC 4), 2=-298(LC 4), 5=-142(LC 4) Max Grav 4=149(LC 1), 2=527(LC 1), 5=299(LC 1)

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

TOP CHORD **BOT CHORD**

2-3=-799/340 2-7=-395/729, 6-7=-395/729

WEBS 3-7=-60/281, 3-6=-768/416

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=298, 5=142.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 73 lb up at 1-6-1, 59 lb down and 73 lb up at 1-6-1, 22 lb down and 38 lb up at 4-4-0, 22 lb down and 38 lb up at 4-4-0, and 43 lb down and 78 lb up at 7-1-15, and 43 lb down and 78 lb up at 7-1-15 on top chord, and 41 lb down and 43 lb up at 1-6-1, 41 lb down and 43 lb up at 1-6-1, 19 lb down and 24 lb up at 4-4-0, 19 lb down and 24 lb up at 4-4-0, and 64 lb down at 7-1-15, and 64 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 7=-6(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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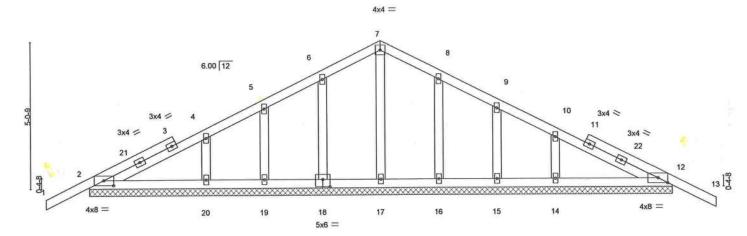


Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 9-2-14 oc bracing.

Qty GIEGEIG CONST. - LOT 4 CW Truss Type Ply Job Truss T28368031 3250275 T01G Common Supported Gable Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 27 06:53:09 2022 Page 1
ID:fRijugoliQj9qlqT_5CiYdzq7NP-yLq2fKUua1k1_y10wVnS3XQS7Z6b0QITiNoZMJytxf0
20-0-0 21-6-0 Lake City, FL - 32055, Builders FirstSource (Lake City.FL). 10-0-0 10-0-0

Scale = 1:38.1



- L					20-0-0							
1					20-0-0							
Plate Offsets (X,Y) [[2:0-4-0,0-2-1], [12:0-4-0,	,0-2-1], [18:0-3-	-0,0-3-0]				_					
LOADING (psf) TCLL 20.0 TCDL 7.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.13 0.10	DEFL. Vert(LL) Vert(CT)	in -0.00 -0.00	(loc) 13 13	l/defl n/r n/r	L/d 120 120	PLATES MT20	GRIP 244/190	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr Code FBC2020/T	YES PI2014	WB Matrix	0.05 k-S	Horz(CT)	0.00	12	n/a	n/a	Weight: 105 lb	FT = 20%	

LUMBER-

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

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

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

REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=-81(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 21-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- to 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 20, 16, 15, 14.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.

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Michael S. Magid PE No.53681 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 27,2022

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Job	Truss	Truss Type	Qty	Ply	GIEGEIG CONST LOT 4 CW	T28368032
3250275	T02	Half Hip Girder	1	1	Job Reference (optional)	2147

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 27 06:53:11 2022 Page 2 ID:fRijugoliQj9qlqT_5CiYdzq7NP-vkyp4?W96e_kDGAm2wpx8yVbPNlLU7vmAhHfQBytxfM

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-9=-54, 2-10=-20

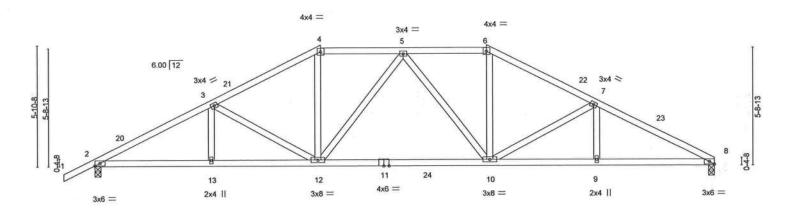
Concentrated Loads (lb)

Vert: 4=-110(F) 7=-110(F) 9=-139(F) 15=-335(F) 14=-64(F) 5=-110(F) 18=-110(F) 19=-110(F) 20=-110(F) 21=-110(F) 22=-110(F) 23=-110(F) 24=-110(F) 25=-110(F) 26=-113(F) 27=-64(F) 28=-64(F) 29=-64(F) 30=-64(F) 31=-64(F) 32=-64(F) 33=-64(F) 35=-64(F) 35=-64(F) 36=-66(F)



GIEGEIG CONST. - LOT 4 CW Truss Truss Type Qty Job T28368034 T04 Hip 3250275 Job Reference (optional) 8.530 s Dec 6 2021 MTek Industries, Inc. Wed Jul 27 06:53:13 2022 Page 1 ID:fRijugoliQj9qlqT_5CiYdzq7NP-r64ZVhXPeGFSSaK99LsPDNa4LAJVyAN3d?mmV4ytxfK Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 11-0-0 4-0-8

Scale = 1:53.9



	1		5-7-15	11-0-0			19-1-0		- î	2	4-5-1	30-1-0		
	-		5-7-15	5-4-1			8-1-0				5-4-1	5-7-15		
Plate Offse	ets (X,	Y)-	[8:0-2-15,Edge]											
LOADING	(psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	-4	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.23	10-12	>999	240	MT20	244/190	
TCDL	7.0		Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.41	10-12	>877	180			
BCLL BCDL	0.0	•	Rep Stress Incr Code FBC2020/T	YES PI2014	WB Matri	0.30 ix-MS	Horz(CT)	0.09	8	n/a	n/a	Weight: 156 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3

WEBS

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

Max Horz 2=102(LC 12)

Max Uplift 8=-238(LC 13), 2=-270(LC 12) Max Grav 8=1202(LC 2), 2=1271(LC 2)

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

2-3=-2228/431, 3-4=-1821/373, 4-5=-1572/363, 5-6=-1575/359, 6-7=-1825/375, TOP CHORD

7-8=-2233/442

2-13=-407/1953, 12-13=-407/1953, 10-12=-242/1657, 9-10=-338/1969, 8-9=-338/1969 BOT CHORD

3-12=-428/188, 4-12=-80/599, 5-12=-273/116, 5-10=-271/114, 6-10=-80/602,

7-10=-442/198

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-2, Interior(1) 1-6-2 to 11-0-0, Exterior(2R) 11-0-0 to 15-0-8, Interior(1) 15-0-8 to 19-1-0, Exterior(2R) 19-1-0 to 23-4-1, Interior(1) 23-4-1 to 30-1-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=238, 2=270.

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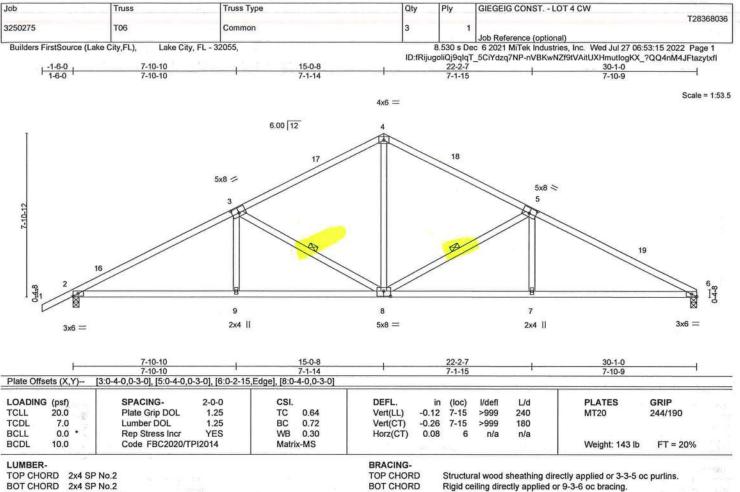
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Structural wood sheathing directly applied or 3-8-7 oc purlins.

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



WEBS

1 Row at midpt

5-8 3-8

BOT CHORD 2x4 SP No.2 WEBS

2x4 SP No.3 REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=134(LC 12) Max Uplift 2=-264(LC 12), 6=-231(LC 13)

Max Grav 2=1196(LC 1), 6=1111(LC 1)

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

TOP CHORD **BOT CHORD** WEBS

2-3=-1984/390, 3-4=-1352/330, 4-5=-1353/336, 5-6=-1994/401 2-9=-381/1704, 8-9=-382/1701, 7-8=-286/1712, 6-7=-286/1715 4-8=-142/792, 5-8=-692/281, 5-7=0/320, 3-8=-679/274, 3-9=0/318

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-2, Interior(1) 1-6-2 to 15-0-8, Exterior(2R) 15-0-8 to 18-0-10, Interior(1) 18-0-10 to 30-1-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=264, 6=231.

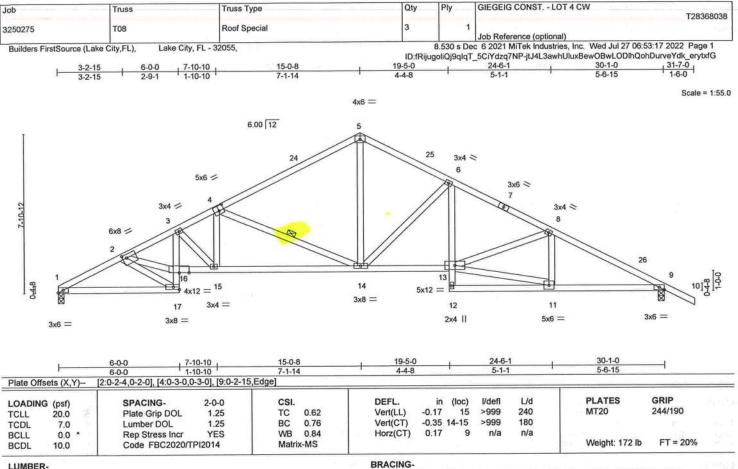
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TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

6-12: 2x4 SP No.3

WEBS 2x4 SP No.3

(size) 1=0-3-8, 9=0-3-8 REACTIONS.

Max Horz 1=-134(LC 17)

Max Uplift 1=-231(LC 12), 9=-264(LC 13) Max Grav 1=1111(LC 1), 9=1196(LC 1)

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

1-2=-2148/458, 2-3=-2778/593, 3-4=-2467/525, 4-5=-1541/351, 5-6=-1501/353, TOP CHORD

6-8=-2033/414, 8-9=-2076/411

1-17=-472/1886, 16-17=-235/979, 3-16=-112/399, 15-16=-553/2519, 14-15=-480/2225, BOT CHORD

13-14=-240/1773, 6-13=-75/445, 9-11=-287/1804

2-17=-1822/489, 2-16=-510/2198, 3-15=-396/101, 4-15=-45/521, 4-14=-1012/352, WEBS

5-14=-180/993, 6-14=-661/232, 11-13=-281/1727

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-1-1, Interior(1) 3-1-1 to 15-0-8, Exterior(2R) 15-0-8 to 18-0-10, Interior(1) 18-0-10 to 31-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=231, 9=264.

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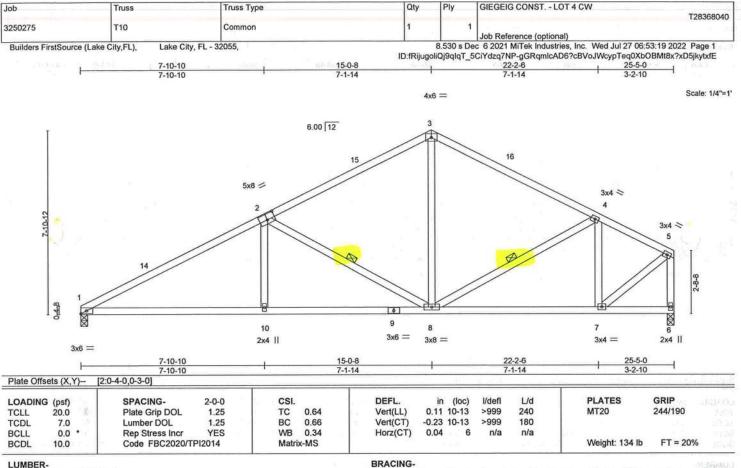
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Structural wood sheathing directly applied or 3-2-10 oc purlins.

Rigid ceiling directly applied or 7-11-0 oc bracing.

1 Row at midpt



TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS.

(size) 1=0-3-8, 6=0-3-8

Max Horz 1=159(LC 12)

Max Uplift 1=-203(LC 12), 6=-174(LC 13) Max Grav 1=935(LC 1), 6=935(LC 1)

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

TOP CHORD

1-2=-1608/361, 2-3=-966/281, 3-4=-961/278, 4-5=-781/195, 5-6=-924/220 1-10=-381/1370, 8-10=-381/1367, 7-8=-159/698 **BOT CHORD**

WEBS 2-10=0/318, 2-8=-693/281, 3-8=-79/487, 4-7=-444/166, 5-7=-207/900

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-0-8, Exterior(2R) 15-0-8 to 18-0-8, Interior(1) 18-0-8 to 25-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=203, 6=174.

This item has been electronically signed and sealed by Magid, Michael, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael S. Magid PE No.53681 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd, Chesterfield, MO 63017

July 27,2022

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTTeks connectors. This design is based only upon parameters and only with MTTeks connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansi/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 3-9-0 oc purlins,

2-8, 4-8

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

except end verticals.

1 Row at midpt

Job	Truss	Truss Type	Qty	Ply	GIEGEIG CONST LOT 4 CW	
2050075	744	Hip Girder	4	9		T28368041
3250275	T11	rip Gilder	2		Job Reference (optional)	31,245

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MTek Industries, Inc. Wed Jul 27 06:53:21 2022 Page 2 ID:fRijugoliQj9qlqT_5CiYdzq7NP-cfZbBQeQljFKQoxhd1?HY3wLOP9oqiuETFiBncytxfC

LOAD CASE(S) Standard

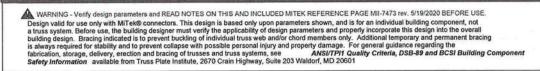
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-9=-54, 9-12=-54, 2-11=-20

Concentrated Loads (lb)

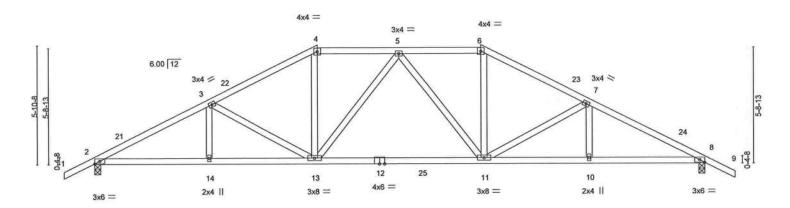
Vert: 4=-110(B) 7=-110(B) 9=-182(B) 17=-335(B) 16=-64(B) 6=-110(B) 14=-64(B) 13=-335(B) 22=-110(B) 23=-110(B) 24=-110(B) 25=-110(B) 26=-110(B) 27=-64(B) 28=-64(B) 29=-64(B) 30=-64(B) 31=-64(B)





GIEGEIG CONST. - LOT 4 CW Job Truss Truss Type T28368043 3250275 T13 Hip Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 27 06:53:23 2022 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:fRijugoliQj9qlqT_5CiYdzq7NP-Y1gLb6fgHKV1f654lS1ldU?o1Cjtli?XwZBIsVytxfA 30-1-0 24-5-1

Scale = 1:54.8



-	5-7-15	11-0-0		19-1-0		24-5 5-4		30-1-0 5-7-15	
Plate Offsets (X,Y)-	5-7-15 ' [8:0-2-15,Edge]	5-4-1		8-1-0		5-4	-1	5-7-15	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 YES	CSI. TC 0.29 BC 0.81 WB 0.29 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.23 11-13 -0.41 11-13 0.09 8	I/defl >999 >880 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 158 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3

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

Max Horz 2=-91(LC 17)

Max Uplift 2=-270(LC 12), 8=-270(LC 13) Max Grav 2=1270(LC 2), 8=1270(LC 2)

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

2-3=-2225/430, 3-4=-1818/366, 4-5=-1569/357, 5-6=-1569/357, 6-7=-1818/366, TOP CHORD

7-8=-2225/431

2-14=-396/1950, 13-14=-396/1950, 11-13=-224/1653, 10-11=-307/1950, 8-10=-307/1950 **BOT CHORD** 3-13=-429/188, 4-13=-79/598, 5-13=-271/115, 5-11=-271/114, 6-11=-79/598, WEBS

7-11=-429/189

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-2, Interior(1) 1-6-2 to 11-0-0, Exterior(2R) 11-0-0 to 15-0-8, Interior(1) 15-0-8 to 19-1-0, Exterior(2R) 19-1-0 to 23-4-1, Interior(1) 23-4-1 to 31-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=270, 8=270.

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Michael S. Magid PE No.53681 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 27,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for slability and to prevent ucliance with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information. available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 3-9-8 oc purlins.

Rigid ceiling directly applied or 9-4-4 oc bracing.

GIEGEIG CONST. - LOT 4 CW Truss Type Qty Ply Job Truss T28368045 T15 OUFENPOST 3250275 Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 27 06:53:25 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:fRijugoliQj9qlqT_5CiYdzq7NP-UQo50ohxpyllvQFSst3Div4Ao0WcmaaqOtgPwNytxf8 10-1-1 15-6-0 15-6-0 7-0-0 3-1-1 3-10-15 Scale = 1:27.3

4x4 = 6.00 12 2x4 = 2x4 > 94-8 04-B 8 3x8 =

	7-0-0 7-0-0		1			4-0-0 7-0-0			
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 NO Code FBC2020/TPI2014	CSI. TC 0.15 BC 0.34 WB 0.35 Matrix-MS	DEFL. i Vert(LL) 0.0 Vert(CT) -0.0 Horz(CT) 0.0	7 8-10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 76 lb	GRIP 244/190 FT = 20%	

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3

3x6 =

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=-63(LC 13) Max Uplift 2=-322(LC 8), 6=-322(LC 9)

Max Grav 2=906(LC 1), 6=906(LC 1)

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

2-3=-1499/574, 3-4=-1326/546, 4-5=-1326/546, 5-6=-1499/574 TOP CHORD

BOT CHORD 2-8=-511/1321, 6-8=-468/1321

WEBS 4-8=-389/906

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=322, 6=322,
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 89 lb up at 7-0-0 on top chord, and 541 lb down and 351 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-6=-20, 1-4=-54, 4-7=-54

Concentrated Loads (lb)

Vert: 4=-73(B) 8=-541(B)

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3x6 =

Structural wood sheathing directly applied or 4-8-11 oc purlins.

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

Michael S. Magid PE No.53681 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

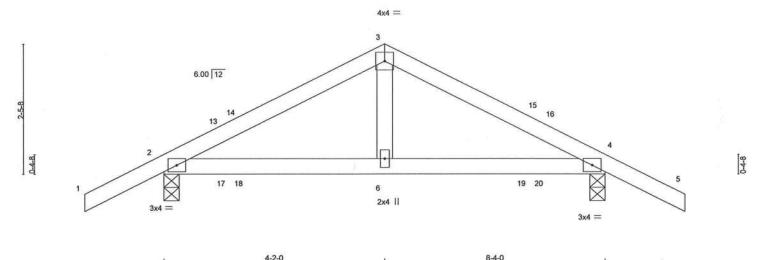
July 27,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ucliapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/PH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



GIEGEIG CONST. - LOT 4 CW Job Truss Truss Type Qty T28368047 3250275 T17 Common Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jul 27 06:53:26 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:fRijugoliQj9qlqT_5CiYdzq7NP-zcMUE8hZaFtcWaqfQaaSF6dK2QuOV59zcXPySqytxf7 9-10-0 1-6-0

Scale = 1:20.9



					4-2-0					4-2-0				
LOADIN	G (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defi	L/d	PLATES	GRIP	
TCLL	20.0		Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.03	6-9	>999	240	MT20	244/190	
TCDL	7.0	345	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.02	6-9	>999	180			
BCLL	0.0 *	6,	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	4	n/a	n/a	9		
BCDL	10.0	. 1	Code FBC2020/Ti	PI2014	Matri	x-MS						Weight: 34 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

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

Max Horz 2=42(LC 12)

Max Uplift 2=-98(LC 12), 4=-98(LC 13) Max Grav 2=389(LC 1), 4=389(LC 1)

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

TOP CHORD BOT CHORD

REACTIONS.

2-3=-390/544, 3-4=-390/544 2-6=-378/310, 4-6=-378/310

WEBS 3-6=-286/180

NOTES-

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 9-10-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

This item has been electronically signed and sealed by Magid, Michael, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael S. Magid PE No.53681 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 27,2022

WARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 truss systems, see

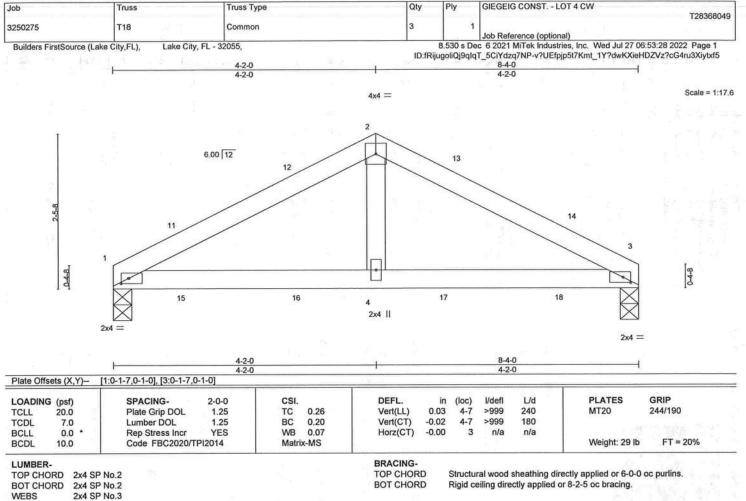
ANSITPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

Rigid ceiling directly applied or 9-2-14 oc bracing.

6023 Swingley Ridge Rd



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

Max Horz 1=-31(LC 13)

Max Uplift 1=-82(LC 9), 3=-82(LC 8)

Max Grav 1=308(LC 1), 3=308(LC 1)

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

TOP CHORD

1-2=-430/601, 2-3=-430/601

BOT CHORD

1-4=-479/349, 3-4=-479/349

WEBS

2-4=-321/186

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 8-4-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

- 5) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

This item has been electronically signed and sealed by Magid, Michael, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Michael S. Magid PE No.53681 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

July 27,2022

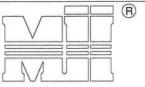
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

MII-T-BRACE 2

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

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

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

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

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

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

	,, \	Nails	
		SPAC	ING
WEB		+ -	
		T	-BRACE
Nails	Section Detail		
	T-Brace		

Nails	
Web	I-Brace
Nails	

Web

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

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

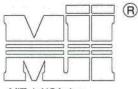


Thomas A. Albani PE No.39380 MITek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

STANDARD REPAIR TO REMOVE END VERTICAL (RIBBON NOTCH VERTICAL)

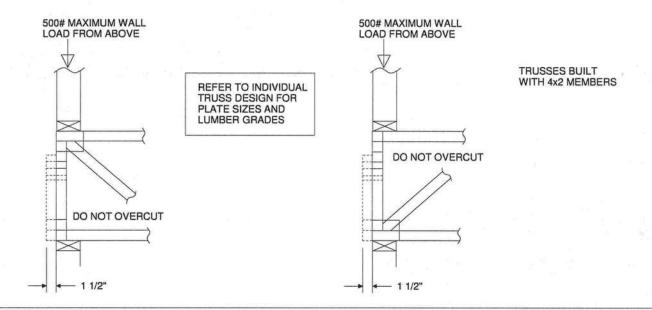
MII-REP05

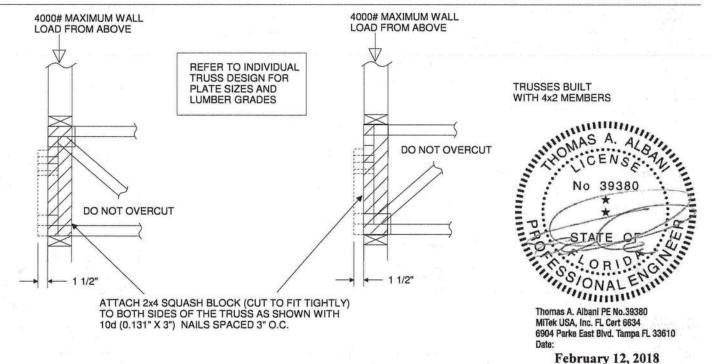
MiTek USA, Inc. Page 1 of 1



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.
- 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.

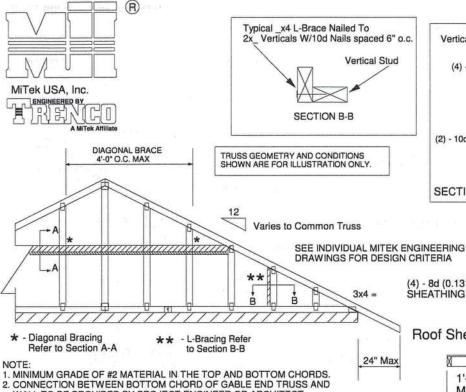




Standard Gable End Detail

MII-GE130-SP

MiTek USA, Inc.



Page 1 of 2 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

> 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.

Nailed To 2x_ Verticals w/(4)-10d Nails

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

SECTION A-A

SHEATHING TO 2x4 STD SPF BLOCK

CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
 BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.

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

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB

OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

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

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.

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

	ning	Roof Sheath	- 7
×′′	(2) - 10d	1'-3"	24" Max
	**	1	
es @ 24" o.c.			
SPACED 48" O.C. AL WITH (4) -16d) - 10d NAILS.	ATTACHED NAILS AND	ag. Brace 1/3 points needed	at 1
AL BRACE ON A-A)		End Wall	
AL WITH (4) -16d) - 10d NAILS.	ATTACHED NAILS AND TO BLOCK!	ag. Brace 1/3 points needed	at 1

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

MiTek USA, Inc. ENGINEERED BY

R

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

Standard Gable End Detail

Typical 2x4 L-Brace Nailed To

SECTION B-B

TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

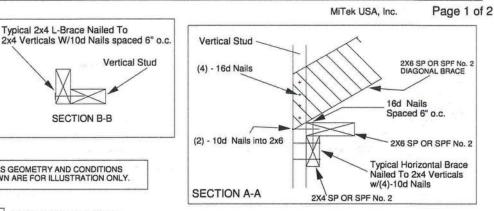
Vertical Stud

SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

24" Max

3x4 =

MII-GE170-D-SP



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

10d

NAILS

- Diagonal Bracing ** - L-Bracing Refer Refer to Section A-A to Section B-B NOTE

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT

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

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

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

DIAPHRAM AT 4'-0" O.C.

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

(REFER TO SECTION A-A)

7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.

9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR

TYPE TRUSSES.

10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.

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

	= 1.03	
	1	
Dia at 1 if n	g. Brace /3 points eeded	, ,
NAL	End Wall	TO THE PARTY OF TH

Roof Sheathing

1'-0"

Max.

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

(2)

Trusses @ 24" o.c.

- 10d NAILS

HORIZONTAL BRACE (SEE SECTION A-A)

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

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

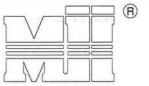
MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D ASCE 7-10 170 MPH **DURATION OF LOAD INCREASE: 1.60**

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



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MiTek USA, Inc. Page 1 of 1



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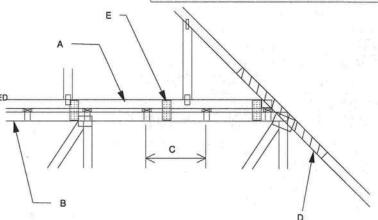
MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ASCE 7-10 DURATION OF LOAD INCREASE: 1.60**

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.

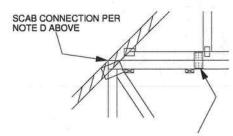
WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM

PIGGYBACK SPAN OF 12 ft. FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3/8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" x 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

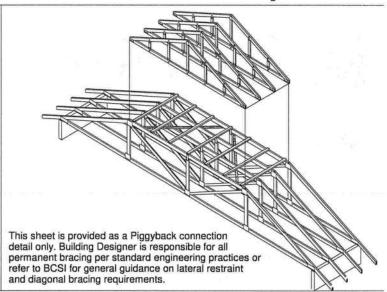


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

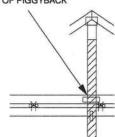
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



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



VERTICAL WEB TO EXTEND THROUGH OF PIGGYBACK



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

VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.

ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.)

(MINIMUM 24:4)
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.



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

MII-REP01A1

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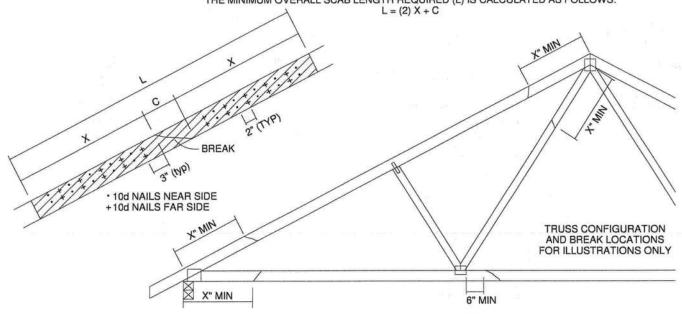


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *			MAXIMUM FORCE (Ibs) 15% LOAD DURATION							
		X	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
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:

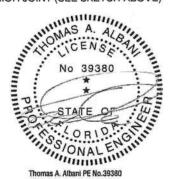
 1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES
 NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS
 SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED
 REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE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

 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR
- 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 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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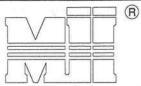
January 19, 2018

TRUSSED VALLEY SET DETAIL

MII-VALLEY HIGH WIND1

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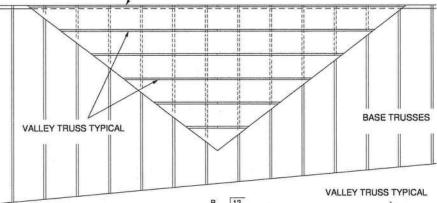
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GABLE END, COMMON TRUSS OR GIRDER TRUSS

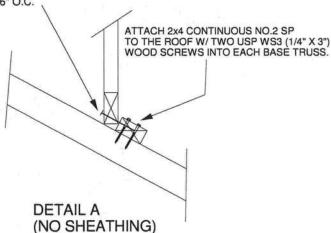
GENERAL SPECIFICATIONS

- NAIL SIZE 10d (0.131" X 3")
 WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
 INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
 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 SEE DETAIL A BELOW (TYP.)

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



N.T.S.

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

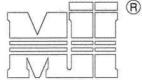


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January 19, 2018

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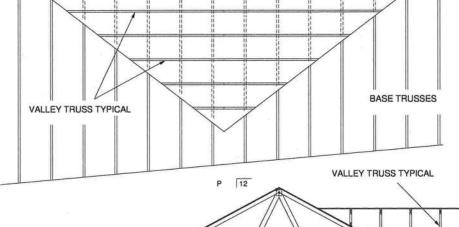
MiTek USA, Inc.

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GABLE END, COMMON TRUSS OR GIRDER TRUSS

GENERAL SPECIFICATIONS

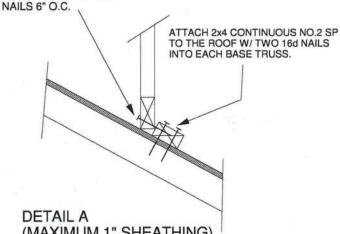
- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING 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



(MAXIMUM 1" SHEATHING) N.T.S.

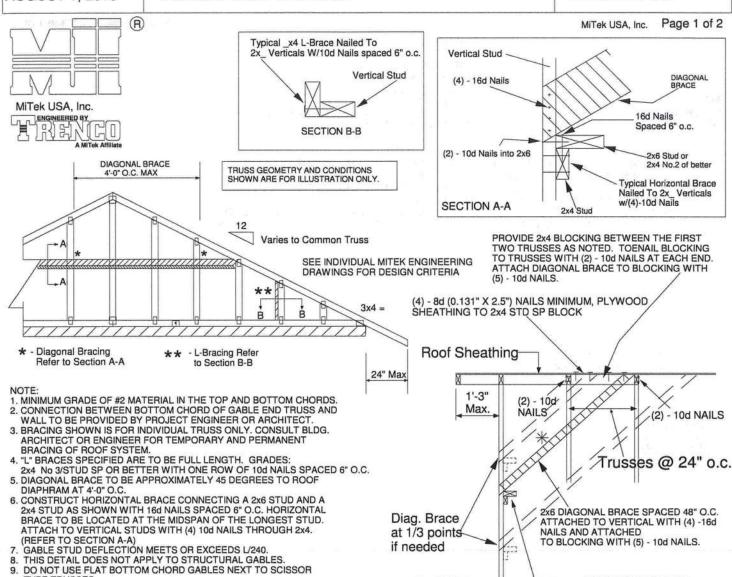
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND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



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

Standard Gable End Detail

MII-GE146-001



End Wall

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

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

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

TYPE TRUSSES

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

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



HORIZONTAL BRACE

(SEE SECTION A-A)

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

January 19, 2018

LATERAL BRACING RECOMMENDATIONS

MII-STRGBCK

MiTek USA, Inc.

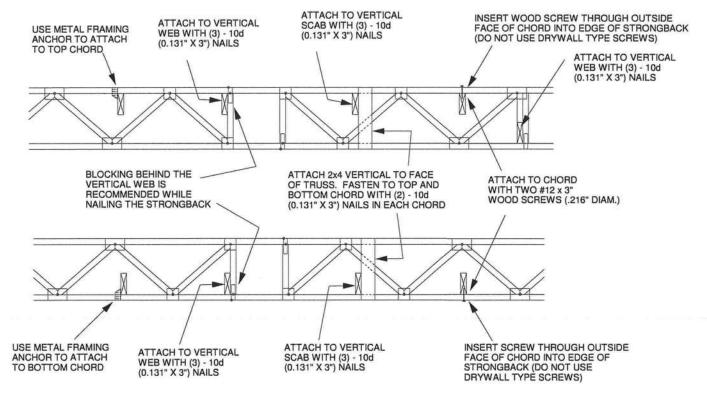
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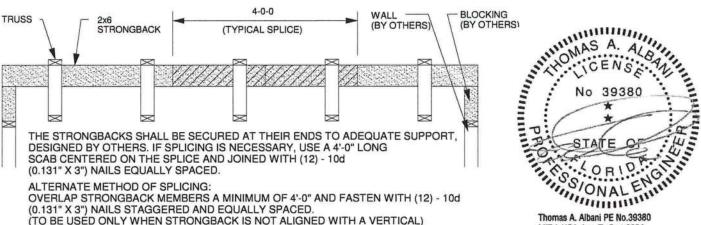


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

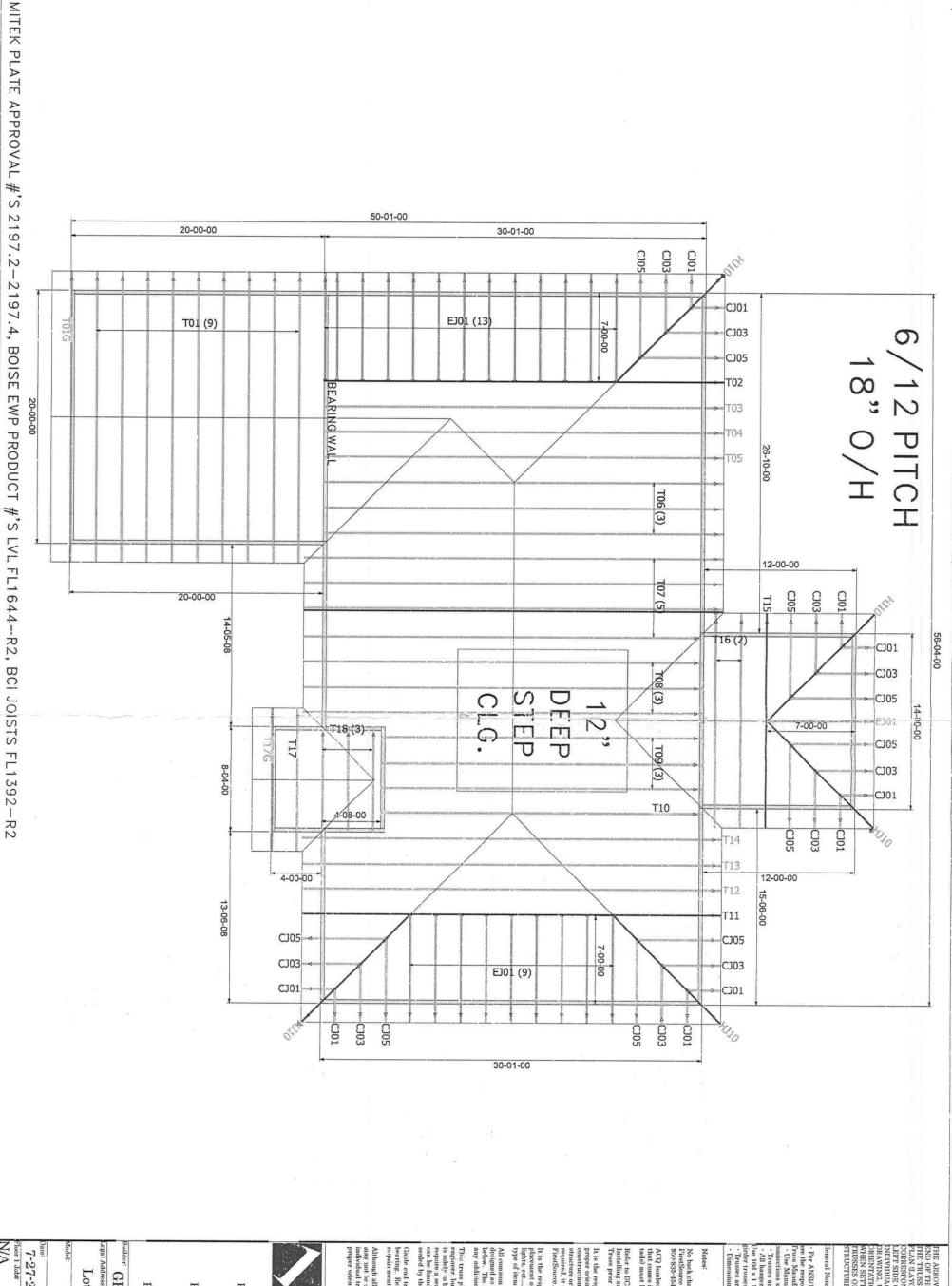
NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

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.





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



• Fer ANSI/IPI 1:2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.

• Use Manufacturer's specifications for all hanger onnections unless soled otherwise.

• Trusses are to be 24° o.c. U.N.O.

• All hangers are to be Simpson or equivalent U.N.O.

• Be 10d x 1 1/2" Naits in hanger connections to single ply grider trusses.

• Trusses are not designed to support brick U.N.O.

• Dimensions are Feet-Inches: Sixteenths THE ATROW HEAD AT THE END OF THE TRUSS ON THE TRUSS ON THE TRUSS FACEMENT PLAN GANGUTY

CORRESPONDS WITH THE LET'S IDE OF THE MUNUDUAL TRUSS

DRAWING, USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE FRUSSES ON THE STRUCTURE. eral Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling. Installing and Bracing of Metal Plate Connected Wood Trues prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these

All common framed toof or floor systems must be designed as to NYT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and these not require a seal. Complete truss engineering and analysis can be found on the truss design crawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

FIRSTSOURCE

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GEIBEIG CONST

Lot 4 Crosswinds

KLH Original Ref#:

7-27-22 3250275 oof Job #:

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