#198

Columbia County New Building Permit Application

For Office Use Only Application # 44576 Date Received 2/21 By MG Permit # 39461 / 39462

Zoning Official LW Date 2-26-20 Flood Zone X Land Use Ag Zoning A-3

FEMA Map # _____ Elevation _____ MFE 93' River _____ Plans Examiner T.C. Date 3-12-20

Comments Per Plat

☐ NOC ☑ EH ☑ Deed or PA ☑ Site Plan ☐ State Road Info ☑ Well letter ☑ 911 Sheet ☐ Parent Parcel # _____

☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter

☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☑ App Fee Paid ☑ Sub VF Form

Septic Permit No. 20-0105 OR City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) ADAM PAPKA - JOHN GRUMM Phone 386-623-2383

Address Po Box 1921 Lake City FL 32056

Owners Name RICHARD & TAMERA MATTHIAS Phone 772-971-8540

911 Address 274 HIGH FIELD TER, LAKE CITY, FL 32024

Contractors Name ADAM PAPKA Phone 386-623-2383

Address Po Box 1921 Lake City FL 32056

Contractor Email adam@adamsconstructiongroup.com ***Include to get updates on this job.

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Nicholas Geisler

Mortgage Lenders Name & Address NA

Circle the correct power company ☐ FL Power & Light ☒ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy

Property ID Number 01-6S-16-03761-171 Estimated Construction Cost 150,000

Subdivision Name Meadowland Lot 71 Block _____ Unit _____ Phase 4

Driving Directions from a Major Road Main Street Head South, Go (R) on Tustenugge, Go Approx. 12 miles, then turn (R) sw Meadowlands drive, Go to highfield ter. go (R). See fence and metal gate on (L)

Construction of New Home _____ Commercial OR X Residential

Proposed Use/Occupancy Single Family Number of Existing Dwellings on Property 0

Is the Building Fire Sprinkled? No If Yes, blueprints included _____ Or Explain _____

Circle Proposed ☐ Culvert Permit or ☒ Culvert Waiver or ☐ D.O.T. Permit or ☐ Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 359' Side 137' (L) Side 159' (R) Rear 231'

Number of Stories 1 Heated Floor Area 1232 Total Floor Area 1936 Acreage 5 ac.

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

#869.15

Columbia County Building Permit Application

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

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

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

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.

Richard Mathias
Tamera Mathias — Tamera L. Mathias

Print Owners Name **Owners Signature**

****Property owners must sign here before any permit will be issued.**

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

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Contractor's Signature

Contractor's License Number CBC1253409
Columbia County Competency Card Number 514

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 21st **day of** February **20**20

Personally known ☑ **or Produced Identification** _____

M Garber

State of Florida Notary Signature (For the Contractor)

SEAL:

MELISSA GARBER
MY COMMISSION # GG 952236
EXPIRES: January 26, 2024
Bonded Thru Notary Public Underwriters

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

PERMIT NO. 20-0104
DATE PAID: 2/11/20
FEE PAID: 600.00
RECEIPT #: [illegible]

APPLICATION FOR:
[ ] New System [✓] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: Richard Mathias

AGENT: Robert W Ford JR NFST INC. TELEPHONE: 386 755-6372

MAILING ADDRESS: 741 SE State Rd 100 LC FLA 32025

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 11 BLOCK: 4 SUBDIVISION: Meadowlands PLATTED: 2005

PROPERTY ID #: 01-6S-16-03761-111 ZONING: SF I/M OR EQUIVALENT: [Y / (N)]

PROPERTY SIZE: 5 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] DISTANCE TO SEWER: NA FT

PROPERTY ADDRESS: 274 SW Highfield Ter

DIRECTIONS TO PROPERTY: 41S to Tuskunnuggee TR Follow to SW Meadows Dr. TR follow to Highfield Terr. TR follow to Lot on left

BUILDING INFORMATION [/] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	Site Built New home	3	1232	(17-0764) ORIGINAL ATTACHED
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: Robert W Ford Jr DATE: 2/10/2020

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

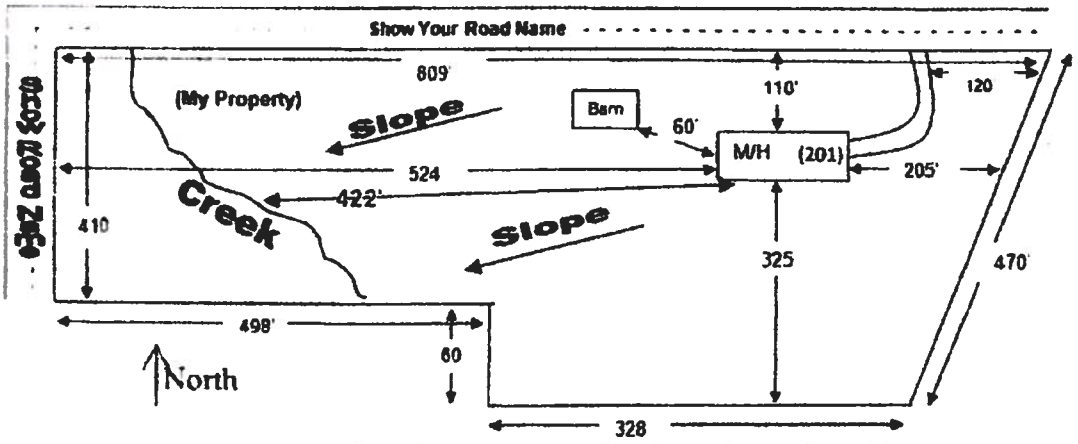
SITE PLAN CHECKLIST

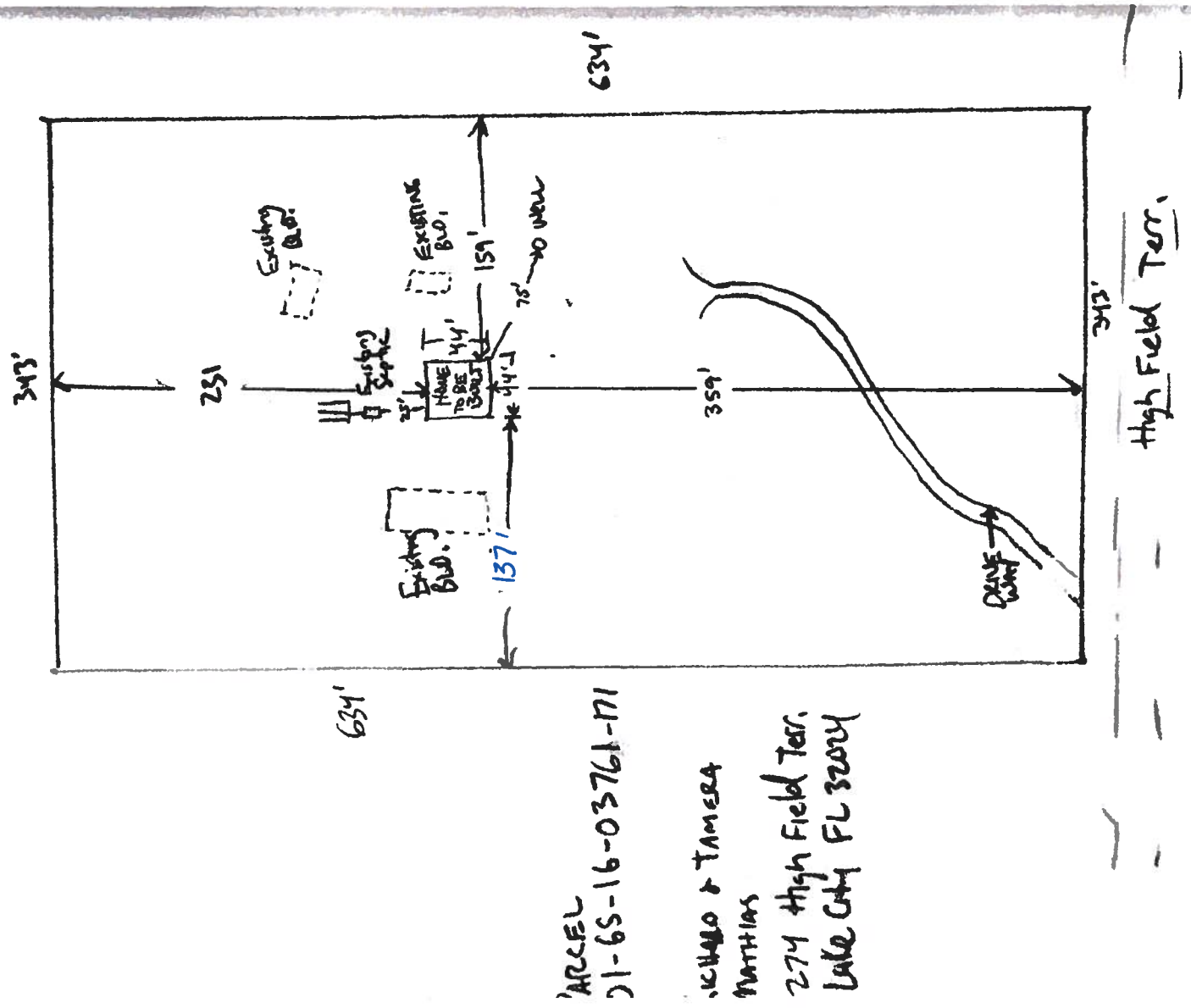
___1) Property Dimensions
___2) Footprint of proposed and existing structures (including decks), label these with existing addresses
___3) Distance from structures to all property lines
___4) Location and size of easements
___5) Driveway path and distance at the entrance to the nearest property line
___6) Location and distance from any waters, sink holes; wetlands; and etc.
___7) Show slopes and or drainage paths
___8) Arrow showing North direction

NOTE:
This site plan can be copied and used with the 911 Addressing Dept. application forms.

SITE PLAN EXAMPLE

Revised 7/1/15





APPLICATION PERMIT # 44576 JOB NAME Mathias

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.

			Need
ELECTRICAL	Print Name DONALD DAVIS	Signature Ronald Davis	Lic, Liab, W/C, EX, DE
☑	Company Name: HIGH SPRINGS ELECTRIC		
CC# 380	License # EC13002306	Phone #: 386-623-0499	
MECHANICAL/ A/C ☐	Print Name CLINT WILSON	Signature	Lic, Liab, W/C, EX, DE
B	Company Name: WILSON HEATING & AIR CONDITIONING		
CC# 902	License #. RAC057896	Phone #: 386-623-0618	
PLUMBING/ GAS ☐	Print Name MARK B BARRS	Signature	Lic, Liab, W/C, EX, DE
	Company Name: BARRS PLUMBING		
CC# 714	License #. CFC057219	Phone #: 752-8656	
ROOFING ☐	Print Name CALEB LAUGHLIN	Signature	Lic, Liab, W/C, EX, DE
	Company Name: Precision Exteriors LLC		
CC# 494	License #: CCC1327718	Phone #: 752-4022	
SHEET METAL N/A	Print Name Ralph Laverdure	Signature 386-623-0178	Lic, Liab, W/C, EX, DE
CC#	Company Name: RWL Roofing		
	License #: 1328590	Phone #:	
FIRE SYSTEM/ SPRINKLER N/A	Print Name	Signature	Lic, Liab, W/C, EX, DE
CC#	Company Name:		
	License#:	Phone #:	
SOLAR N/A	Print Name	Signature	Lic, Liab, W/C, EX, DE
CC#	Company Name:		
	License #:	Phone #:	
STATE SPECIALTY N/A	Print Name	Signature	Lic, Liab, W/C, EX, DE
CC#	Company Name:		
	License #:	Phone #:	

This Instrument Prepared By:
Michael Harrell
Abstract Trust Title, LLC
283 NW ColeTerrace
Lake City, FL 32055
ATS# 4-7953

Inst: 201712020470 Date: 11/07/2017 Time: 4:38PM
Page 1 of 2 B: 1347 P: 1614, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy ClerkDoc Stamp-Deed: 385.00

GENERAL WARRANTY DEED

Individual to Individual (or Corporation/LLC)

This Warranty Deed made this 23rd day of October 2017 by

Stephen C. Long, and his wife, Lindy L. Long

hereinafter called the Grantor, to

Richard L. Mathias and his wife, Tamera L. Mathias

whose post office address is 2374 SW Indigo Ln, Port St. Lucie, FL 34953, hereinafter called the Grantee.

(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of Individuals, and the successors and assigns of Corporation.)

The Grantor, for and in consideration of the sum of $10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, unto the Grantee all that certain land, situate in Columbia County, Florida, viz:

See Exhibit "A" Attached Hereto And By This Reference Made A Part Thereof.

Together with all the tenements, hereditaments, and appurtenances thereto belonging or in anyways appertaining.

To have and to hold, the same in fee simple forever.

And the Grantor hereby convenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to the prior year.

In witness whereof, the said Grantor has signed and sealed these presents the day and year first above written.

WITNESS
Printed Name: WARREN DAVIS

Stephen C. Long

Lindy L. Long

WITNESS
Printed Name: Rebecca N Herring

State of TENNESSEE
County of KNOX

I hereby certify that on this 23rd day of OCTOBER, 2017, before me, an officer duly authorized to administer oaths and take acknowledgements, personally appeared Stephen C. Long, and his wife, Lindy L. Long, who is personally known to me or produced a FL DRIVER LICENSE for identification, and known to me to be the person described in and who executed the foregoing instrument, who acknowledged before me that he/she/they executed the same, and an oath was not taken.

(SEAL)

LYDIA W. SCHOEN
STATE OF TENNESSEE NOTARY PUBLIC
KNOX COUNTY

NOTARY PUBLIC

My Commission Expires: 11/28/2020

ATT 7953

Exhibit "A"

Lot 71, Meadowlands Phase 4, according to the map or plat thereof, as recorded in Plat Book 8, Page(s) 11 through 14, of the Public Records of Columbia County, Florida.

A&B Well Drilling, Inc.

5873 NW Lake Jeffery Road
Lake City, FL 32055
Telephone: (386) 758-3409
Cell: (386) 623-3151
Fax: (386) 758-3410
Owner: Bruce Park

Date 2/21/20

To: Columbia County Building Department

Description of well to be installed for Customer Adam's Construction

Located at Address 274 SW High Field terrace Lake City FL

1HP 15 GPM submersible pump, 1" drop pipe, 36 gallon captive tank, and backflow prevention. With SRWMD permit.

Well Exists

Bruce Park

Sincerely,
Bruce N. Park
President

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Marked as Applicable
				Select From the Dropbox
1	Two (2) complete sets of plans containing the following:			- Yes
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			- Yes
3	Condition space (Sq. Ft.) 2457	Total (Sq. Ft.) under roof 3048		YES / NO / N/A

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

Site Plan information including:

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

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
8	**Plans or specifications must show compliance with FBCR Chapter 3**	YES / NO / N/A

		Select From the Dropbox
9	Basic wind speed (3-second gust), miles per hour	- Yes
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	- Yes
11	Wind importance factor and nature of occupancy	- Yes
12	The applicable internal pressure coefficient, Components and Cladding	- Yes
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	- Yes

Elevations Drawing including:

14	All side views of the structure	- Yes
15	Roof pitch	- Yes
16	Overhang dimensions and detail with attic ventilation	- Yes
17	Location, size and height above roof of chimneys	- Yes
18	Location and size of skylights with Florida Product Approval	- Yes
18	Number of stories	- Yes
20A	Building height from the established grade to the roofs highest peak	- Yes

Floor Plan including:

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

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

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

YES / NO / N/A

FBCR 403: Foundation Plans

Select From the Dropbox

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

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	Yes
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	Yes

FBCR 318: PROTECTION AGAINST TERMITES

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

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

37	Show all materials making up walls, wall height, and Block size, mortar type	Yes
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	Yes

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

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	Yes

40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and or priers	yes
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers	yes
42	Attachment of joist to girder	yes
43	Wind load requirements where applicable	yes
44	Show required under-floor crawl space	yes
45	Show required amount of ventilation opening for under-floor spaces	N/A
46	Show required covering of ventilation opening	yes
47	Show the required access opening to access to under-floor spaces	yes
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	N/A
49	Show Draftstopping, Fire caulking and Fire blocking	N/A
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	yes
51	Provide live and dead load rating of floor framing systems (psf).	yes

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

YES / NO / N/A

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable Select From the Dropbox
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	yes
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	yes
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	yes
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	yes
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)	yes
57	Indicate where pressure treated wood will be placed	yes
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	yes
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	yes

FBCR :ROOF SYSTEMS:

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

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing	yes
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating	yes
67	Valley framing and support details	yes
68	Provide dead load rating of rafter system	yes

FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	yes
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	yes

ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	yes
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	yes

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 Residential buildings compliance methods. **Two of the required forms are to be submitted.** *N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.*

YES / NO / N/A

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable Select From the Dropbox
73	Show the insulation R value for the following areas of the structure	- Yes
74	Attic space	- Yes
75	Exterior wall cavity	- Yes
76	Crawl space	- Yes
	HVAC information	
77	Submit two copies of a Manual J sizing equipment or equivalent computation study	- Yes
78	Exhaust fans shown in bathrooms **Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required**	- Yes
79	Show clothes dryer route and total run of exhaust duct	- Yes
	Plumbing Fixture layout shown	
80	All fixtures waste water lines shall be shown on the foundation plan	- Yes
81	Show the location of water heater	- Yes
	Private Potable Water	
82	Pump motor horse power	- Yes
83	Reservoir pressure tank gallon capacity	- Yes
84	Rating of cycle stop valve if used	- Yes
	Electrical layout shown including	
85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	- Yes
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by **Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A**	- Yes
87	Show the location of smoke detectors & Carbon monoxide detectors	- Yes
88	Show service panel, sub-panel, location(s) and total ampere ratings	- Yes
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. **For structures** with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	- Yes - Yes
90	Appliances and HVAC equipment and disconnects	- Yes
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed **Combination arc-fault circuit interrupter,** Protection device.	- Yes

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

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

TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. NO

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

Notice Of Commencement

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

Section R101.2.1 of the Florida Building Code Residential:

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

Columbia County Property Appraiser

Jeff Hampton

2020 Working Values
updated: 2/11/2020

Parcel: << 01-6S-16-03761-171 >>

Owner & Property Info

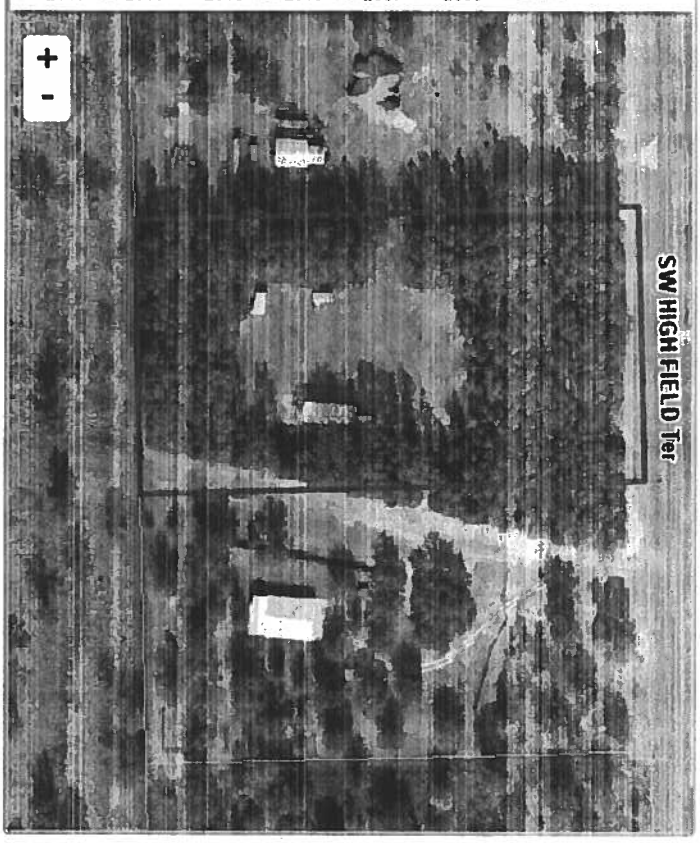
Result: 1 of 1

Owner	MATHIAS RICHARD L & TAMERA L 247 RAINBOW DR #14772 LIVINGSTON, TX 77399		
Site	274 HIGH FIELD TER, LAKE CITY		
Description*	LOT 71 MEADOWLANDS S/D PHASE 4 AG 1053-21, QC 1210-1461, QC 1210-1462, WD 1297-113, WD 1347-1614,		
Area	5 AC	S/T/R	01-6S-16E
Use Code**	AC/XFOB (009901)	Tax District	3

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.
**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Aerial Viewer Pictometery Google Maps

2019 2016 2013 2010 2007 2005 Sales



Property & Assessment Values

2019 Certified Values		2020 Working Values	
Mkt Land (3)	$32,250	Mkt Land (3)	$32,250
Ag Land (0)	$0	Ag Land (0)	$0
Building (0)	$0	Building (0)	$0
XFOB (4)	$15,675	XFOB (4)	$15,675
Just	$47,925	Just	$47,925
Class	$0	Class	$0
Appraised	$47,925	Appraised	$47,925
SOH Cap [?]	$0	SOH Cap [?]	$0
Assessed	$47,925	Assessed	$47,925
Exempt	$0	Exempt	$0
Total Taxable	county:$47,925 city:$47,925 other:$47,925 school:$47,925	Total Taxable	county:$47,925 city:$47,925 other:$47,925 school:$47,925

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
10/23/2017	$55,000	1347/1614	WD	I	Q	01
1/5/2016	$0	1312/1284	AG	I	U	30
6/22/2015	$32,900	1297/0113	WD	V	Q	01
2/10/2011	$100	1210/1462	QC	V	U	11
2/8/2011	$100	1210/1461	QC	V	U	11
12/9/2010	$100	1206/0740	TR	V	U	30
2/18/2005	$45,000	1053/0021	AG	V	U	08

Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
NONE						

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0296	SHED METAL	2017	$2,880.00	288.000	12 x 24 x 0	(000.00)
0296	SHED METAL	2018	$2,835.00	420.000	14 x 30 x 0	AP (025.00)
0166	CONC,PAVMT	2018	$240.00	120.000	5 x 24 x 0	(000.00)
0060	CARPORT F	2018	$9,720.00	1440.000	24 x 60 x 0	AP (025.00)

Land Breakdown

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
009901	AC/XFOB (MKT)	1.000 LT - (5.000 AC)	1.00/1.00 1.00/1.00	$29,000	$29,000
009946	WELL (MKT)	1.000 UT - (0.000 AC)	1.00/1.00 1.00/1.00	$2,000	$2,000
009947	SEPTIC (MKT)	1.000 UT - (0.000 AC)	1.00/1.00 1.00/1.00	$1,250	$1,250

Search Result: 1 of 1

by: GrizzlyLogic.com

Legend

Addresses

2018 Flood Zones
- 0.2 PCT ANNUAL CHANCE
- A
- AE
- AH

Parcels

Roads
- Roads
- others
- Dirt
- Interstate
- Main
- Other
- Paved
- Private

2018Aerials

DevZones1
- others
- A-1
- A-2
- A-3
- CG
- CHI
- CI
- CN
- CSV
- ESA-2
- I
- ILW
- MUD-I
- PRD
- PRRD
- RMF-1
- RMF-2
- RO
- RR
- RSF-1
- RSF-2
- RSF-3
- RSF/MH-1
- RSF/MH-2
- RSF/MH-3
- DEFAULT

Water Lines
- Others
- CANAL / DITCH
- CREEK
- STREAM / RIVER

Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Feb 25 2020 13:23:20 GMT-0500 (Eastern Standard Time)

Parcel Information

Parcel No: 01-6S-16-03761-171

Owner: MATHIAS RICHARD L & TAMERA L

Subdivision: MEADOWLANDS PHASE 4

Lot: 71

Acres: 5.009103

Deed Acres: 5 Ac

District: District 5 Tim Murphy

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

Residential System Sizing Calculation

Summary

Project Title:
Mathias Residence

, FL

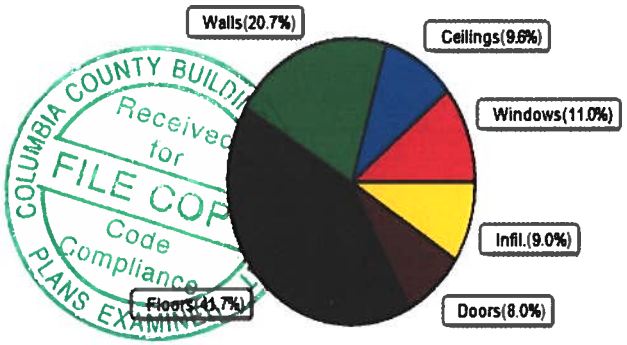
2/14/2020

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)						
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)						
Winter design temperature(TMY3 99%)	30	F		Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F		Summer setpoint	75	F
Winter temperature difference	40	F		Summer temperature difference	19	F
Total heating load calculation	**16296**	**Btuh**		**Total cooling load calculation**	**11233**	**Btuh**
Submitted heating capacity	% of calc	Btuh		Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	184.1	30000		Sensible (SHR = 0.85)	266.5	25500
Heat Pump + Auxiliary(0.0kW)	184.1	30000		Latent	270.6	4500
				Total (Electric Heat Pump)	267.1	30000

WINTER CALCULATIONS

Winter Heating Load (for 1232 sqft)

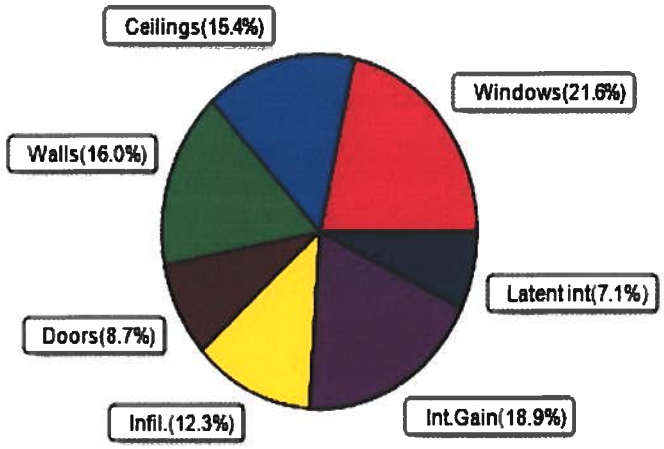
Load component			Load	
Window total	136	sqft	1795	Btuh
Wall total	1089	sqft	3366	Btuh
Door total	71	sqft	1308	Btuh
Ceiling total	1232	sqft	1569	Btuh
Floor total	1232	sqft	6797	Btuh
Infiltration	33	cfm	1460	Btuh
Duct loss			0	Btuh
Subtotal			**16296**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**16296**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1232 sqft)

Load component			Load	
Window total	136	sqft	2422	Btuh
Wall total	1089	sqft	1801	Btuh
Door total	71	sqft	981	Btuh
Ceiling total	1232	sqft	1726	Btuh
Floor total			0	Btuh
Infiltration	25	cfm	520	Btuh
Internal gain			2120	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**9570**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			863	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			800	Btuh
Total latent gain			**1663**	**Btuh**
TOTAL HEAT GAIN			**11233**	**Btuh**



8th Edition

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 2-14-20

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Mathias Residence

, FL

2/14/2020

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

Window	Type* Panes	SHGC	U	InSh	IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2 NFRC	0.22, 0.33	No	No	N	11.5f	1.3ft	16.0	0.0	16.0	11	11	174 Btuh
2	2 NFRC	0.22, 0.33	No	No	E	1.5ft	1.3ft	8.0	0.0	8.0	11	27	220 Btuh
3	2 NFRC	0.22, 0.33	No	No	E	1.5ft	1.3ft	17.5	0.0	17.5	11	27	481 Btuh
4	2 NFRC	0.22, 0.33	No	No	S	11.5f	1.3ft	35.0	35.0	0.0	11	13	381 Btuh
5	2 NFRC	0.22, 0.33	No	No	S	11.5f	1.3ft	30.0	30.0	0.0	11	13	327 Btuh
6	2 NFRC	0.22, 0.33	No	No	W	1.5ft	1.3ft	17.5	0.0	17.5	11	27	481 Btuh
7	2 NFRC	0.22, 0.33	No	No	W	1.5ft	1.3ft	12.0	0.0	12.0	11	27	330 Btuh
	Excursion												28 Btuh
	Window Total							136 (sqft)					2422 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.08	19.0/0.0	342.2	1.7	566 Btuh
2	Frame - Wood - Ext	0.08	19.0/0.0	226.5	1.7	375 Btuh
3	Frame - Wood - Ext	0.08	19.0/0.0	297.7	1.7	492 Btuh
4	Frame - Wood - Ext	0.08	19.0/0.0	222.5	1.7	368 Btuh
	Wall Total			1089 (sqft)		1801 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	13.8	276 Btuh
2	Insulated - Exterior	33.3	13.8	460 Btuh
3	Insulated - Exterior	17.8	13.8	245 Btuh
	Door Total	71 (sqft)		981 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/Light/Shingle	0.032	30.0/0.0	1232.0	1.40	1726 Btuh
	Ceiling Total			1232 (sqft)		1726 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	1232 (ft-perimeter)	0.0	0 Btuh
	Floor Total		1232.0 (sqft)		0 Btuh

	Envelope Subtotal:	6930 Btuh

Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.14	11088	1	25.0	520 Btuh

Internal gain		Occupants		Btuh/occupant		Appliance	Load
		4	X	230	+	1200	2120 Btuh
					Sensible Envelope Load:		9570 Btuh
Duct load	Extremely sealed, Supply(R6.0-Condi), Return(R6.0-Condi)				(DGM of 0.000)		0 Btuh
					Sensible Load All Zones		**9570 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Mathias Residence

, FL

2/14/2020

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**9570 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**9570 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**9570 Btuh**
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	863 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**1663 Btuh**
	TOTAL GAIN	**11233 Btuh**

EQUIPMENT

1. Central Unit	#	30000 Btuh

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

Version 8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Mathias Residence
Building Type: User

, FL

2/14/2020

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

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.22	Vinyl	0.33	N	16.0	13.2	211 Btuh
2	2, NFRC 0.22	Vinyl	0.33	E	8.0	13.2	106 Btuh
3	2, NFRC 0.22	Vinyl	0.33	E	17.5	13.2	231 Btuh
4	2, NFRC 0.22	Vinyl	0.33	S	35.0	13.2	462 Btuh
5	2, NFRC 0.22	Vinyl	0.33	S	30.0	13.2	396 Btuh
6	2, NFRC 0.22	Vinyl	0.33	W	17.5	13.2	231 Btuh
7	2, NFRC 0.22	Vinyl	0.33	W	12.0	13.2	158 Btuh
	Window Total				136.0(sqft)		1795 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.077)	19.0/0.0	342	3.09	1058 Btuh
2	Frame - Wood	- Ext	(0.077)	19.0/0.0	227	3.09	700 Btuh
3	Frame - Wood	- Ext	(0.077)	19.0/0.0	298	3.09	920 Btuh
4	Frame - Wood	- Ext	(0.077)	19.0/0.0	223	3.09	688 Btuh
	Wall Total				1089(sqft)		3366 Btuh
Doors	Type	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.460)		20	18.4	368 Btuh
2	Insulated - Exterior,	n	(0.460)		33	18.4	613 Btuh
3	Insulated - Exterior,	n	(0.460)		18	18.4	327 Btuh
	Door Total				71(sqft)		1308Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shing		(0.032)	30.0/0.0	1232	1.3	1569 Btuh
	Ceiling Total				1232(sqft)		1569Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	144.0 ft(perim.)	47.2	6797 Btuh
	Floor Total				1232 sqft		6797 Btuh
					Envelope Subtotal:		14836 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural		0.18	11088	1.00	33.3	1460 Btuh
Duct load	Extremely sealed, R6.0, Supply(Con), Return(Con)				(DLM of 0.000)		0 Btuh
All Zones				**Sensible Subtotal All Zones**			**16296 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Mathias Residence
Building Type: User

, FL

2/14/2020

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	16296 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	16296 Btuh

EQUIPMENT

1. Electric Heat Pump	#	30000 Btuh

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

Version 8

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Mathias Residence	Builder Name:	Adam's Construction
Street:		Permit Office:	
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville	County:	columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	2
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	1232
Conditioned floor area below grade (ft²)	0

7. Windows(136.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.33	136.00 ft²
SHGC:	SHGC=0.22	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		7.456 ft.
Area Weighted Average SHGC:		0.220

8. Floor Types (1232.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1232.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (1296.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1296.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (1232.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=30.0	1232.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Main, Ret: Main, AH: Main	6	246.4

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	30.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	30.0	HSPF:8.50

14. Hot water systems	
a. Electric	Cap: 50 gallons EF: 0.920
b. Conservation features	
None	
15. Credits	CF, Pstat

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

Glass/Floor Area: 0.110

Total Proposed Modified Loads: 34.57

Total Baseline Loads: 42.47

PASS

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

PREPARED BY: _____

DATE: 2-14-20

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Mathias Residence	Bedrooms:	2	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2150	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Adam's Construction	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

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

BLOCKS

Number	Name	Area	Volume
1	Block1	1232	11088

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1232	11088	Yes	4	2	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
____	1	Slab-On-Grade Edge Insulatio	Main	144 ft	0	1232 ft²	----	0.33	0.33	0.34

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
____	1	Hip	Composition shingles	1427 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	30.3

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
____	1	Full attic	Vented	300	1232 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
____	1	Under Attic (Vented)	Main	30	Blown	1232 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___	1	N	Exterior	Frame - Wood	Main	19	44		9		396.0 ft²		0.23	0.75	0
___	2	E	Exterior	Frame - Wood	Main	19	28		9		252.0 ft²		0.23	0.75	0
___	3	S	Exterior	Frame - Wood	Main	19	44		9		396.0 ft²		0.23	0.75	0
___	4	W	Exterior	Frame - Wood	Main	19	28		9		252.0 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	N	Insulated	Main	None	.46	3		6	8	20 ft²
_____	2	S	Insulated	Main	None	.46	5		6	8	33.3 ft²
_____	3	N	Insulated	Main	None	.46	2	8	6	8	17.8 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.0 ft²	11 ft 6 in	1 ft 4 in	None	None
_____	2	E	2	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	3	E	2	Vinyl	Low-E Double	Yes	0.33	0.22	N	17.5 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	4	S	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	35.0 ft²	11 ft 6 in	1 ft 4 in	None	None
_____	5	S	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	11 ft 6 in	1 ft 4 in	None	None
_____	6	W	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	17.5 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	7	W	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	12.0 ft²	1 ft 6 in	1 ft 4 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	924	50.73	95.4	.1128	5

HEATING SYSTEM

√	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	None	Singl	HSPF:8.5	30 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	None	Singl	SEER: 14	30 kBtu/hr	900 cfm	0.85	1	sys#1

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0.92	50 gal	50 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
_____	1	Main	6	246.4 ft	Main	61.6 ft²	Prop. Leak Free	Main	--- cfm	37.0 cfm	0.03	0.50	1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

MASS

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 81

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

1. New home or, addition	1. New (From Plans)
2. Single-family or multiple-family	2. Single-family
3. No. of units (if multiple-family)	3. 1
4. Number of bedrooms	4. 2
5. Is this a worst case? (yes/no)	5. No
6. Conditioned floor area (sq. ft.)	6. 1232
7. Windows, type and area	
a) U-factor:(weighted average)	7a. 0.330
b) Solar Heat Gain Coefficient (SHGC)	7b. 0.220
c) Area	7c. 136.0
8. Skylights	
a) U-factor:(weighted average)	8a. NA
b) Solar Heat Gain Coefficient (SHGC)	8b. NA
9. Floor type, insulation level:	
a) Slab-on-grade (R-value)	9a. 0.0
b) Wood, raised (R-value)	9b.
c) Concrete, raised (R-value)	9c.
10. Wall type and insulation:	
A. Exterior:	
1. Wood frame (Insulation R-value)	10A1. 19.0
2. Masonry (Insulation R-value)	10A2.
B. Adjacent:	
1. Wood frame (Insulation R-value)	10B1.
2. Masonry (Insulation R-value)	10B2.
11. Ceiling type and insulation level	
a) Under attic	11a. 30.0
b) Single assembly	11b.
c) Knee walls/skylight walls	11c.
d) Radiant barrier installed	11d. No

12. Ducts, location & insulation level	
a) Supply ducts	R 6.0
b) Return ducts	R 6.0
c) AHU location	Main
13. Cooling system:	Capacity 30.0
a) Split system	SEER
b) Single package	SEER
c) Ground/water source	SEER/COP
d) Room unit/PTAC	EER
e) Other	14.0
14. Heating system:	Capacity 30.0
a) Split system heat pump	HSPF
b) Single package heat pump	HSPF
c) Electric resistance	COP
d) Gas furnace, natural gas	AFUE
e) Gas furnace, LPG	AFUE
f) Other	8.50
15. Water heating system	
a) Electric resistance	EF 0.92
b) Gas fired, natural gas	EF
c) Gas fired, LPG	EF
d) Solar system with tank	EF
e) Dedicated heat pump with tank	EF
f) Heat recovery unit	HeatRec%
g) Other	
16. HVAC credits claimed (Performance Method)	
a) Ceiling fans	Yes
b) Cross ventilation	No
c) Whole house fan	No
d) Multizone cooling credit	
e) Multizone heating credit	
f) Programmable thermostat	Yes

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL display card will be completed based on installed code compliant features.

Builder Signature:_____ Date:_____

Address of New Home: _____ City/FL Zip: _____, FL

FLORIDA PRODUCT APPROVALS
10-16-15

Rogue Valley Wood FL-13137

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3 flush glazed
		6'8" Fib- Glazed door	FL-17347
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
	* 53"x50"	3580 Hor. Slider	FL-13349.2
-7-16 Finkless Doors Harbor & Finks per Jason		Vinyl 3540 Single Hung	FL-17676-R1
		Vinyl 3500 Picture Window	FL-18644
	Atrium	150/160	FL-11834
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
5-16	63"x44"	400 Hor. Slider	FL-16476.1
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
	LCI HW (House Wrap)	International Bldg Code	ESR3774
Underlayment:	Woodland	30# Felt	FL-17206-R3
	Interwrap	Rhino	FL-15216
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
Fortress SA FL-16542.20	Certainteed	Flintlastic SBS & APP	FL-16709.1
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing		5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3

Hardie ConPlank 13192.1
Union

5-17-16 Per Over SF. b Plan 15187. Plastpro

FLORIDA PRODUCT APPROVALS
10-16-15

Rogue Valley Wood — FL-13137

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3 flush glazed
		6'8" Fib- Glazed door	FL-17347
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
	* 53"x50"	3580 Hor. Slider	FL-13349.2
1-7-16 Finesse covers Marvin & finesse per Jason		Vinyl 3540 Single Hung	FL-17676-R1
		Vinyl 3500 Picture Window	FL-18644
	Atrium	150/160	FL-11834
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
5-16	63"x44"	400 Hor. Slider	FL-16476.1
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
	LCIHW (House Wrap)	International Bldg Code	ESR3774
Underlayment:	Woodland	30# Felt	FL-17206-R3
	Interwrap	Rhino	FL-15216
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
Polyglass SA-P FL-1654 R20	Structured	Flintlastic SBS & APP	FL-16709.1
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing		5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3

5-17-16 Rev Over SF. blan 15187. Plastro

Hardie Union — CemPlank — 13192.1

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

RE: Mathais - Mathais

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: Adams Cosntruction Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FI

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 3 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T19639792	A1GE	3/10/20
2	T19639793	A2	3/10/20
3	T19639794	A3	3/10/20

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Albani, Thomas
My license renewal date for the state of Florida is February 28, 2021.

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

THOMAS A. ALBANI
LICENSE
No. 39380
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 10,2020

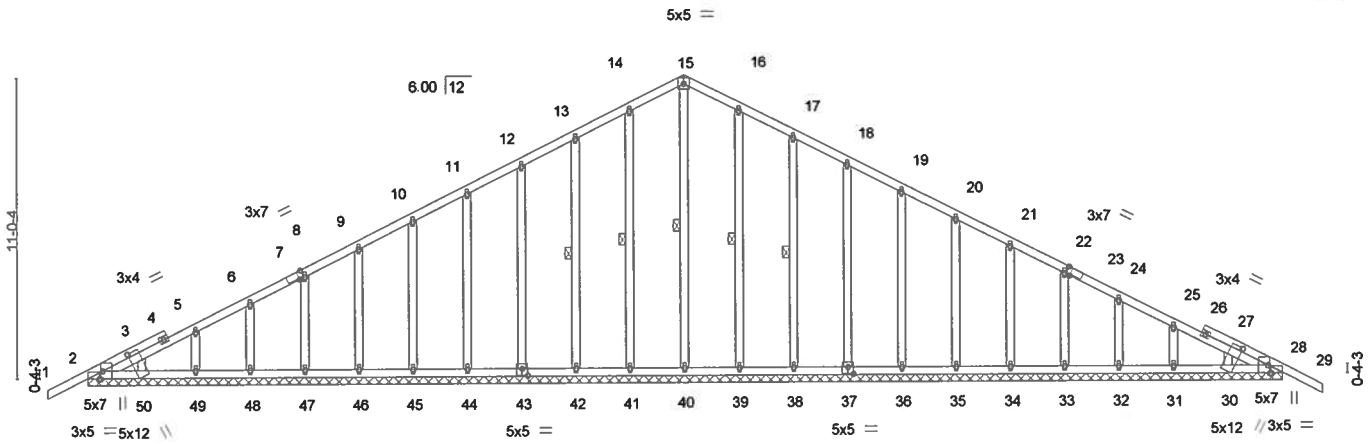
Job	Truss	Truss Type	Qty	Ply	Mathais	T19639792
Mathais	A1GE	Common Supported Gable	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066

8.240 s Feb 7 2020 MiTek Industries, Inc. Tue Mar 10 08:03:00 2020 Page 1
ID:zx1hmREbPNPJ5bCY0rKphJzeglC-NHDxe0e1uzAi52?TMowEuBM6mXt?chofrxTh2HzcOrv

1-6-0 | 22-0-0 | 44-0-0 | 45-6-0
1-6-0 | 22-0-0 | 22-0-0 | 1-6-0

Scale = 1:79.8



44-0-0
44-0-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-1-8,Edge], [3:0-0-0,0-1-15], [7:0-1-14,Edge], [23:0-1-14,Edge], [27:0-0-0,0-1-15], [28:0-1-8,Edge], [28:0-3-8,Edge], [30:0-1-8,1-1-2], [37:0-2-8,0-3-0], [43:0-2-8,0-3-0], [50:0-1-8,1-1-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01	29	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	29	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 315 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 15-40, 14-41, 13-42, 16-39, 17-38

REACTIONS. All bearings 44-0-0.
(lb) - Max Horz 2=-213(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 41, 42, 43, 44, 45, 46, 47, 48, 49, 39, 38, 37, 36, 35, 34, 33, 32, 31, 28
Max Grav All reactions 250 lb or less at joint(s) 2, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-109/293, 14-15=-125/335, 15-16=-125/335, 16-17=-109/293

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 41, 42, 43, 44, 45, 46, 47, 48, 49, 39, 38, 37, 36, 35, 34, 33, 32, 31, 28.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: March 10,2020

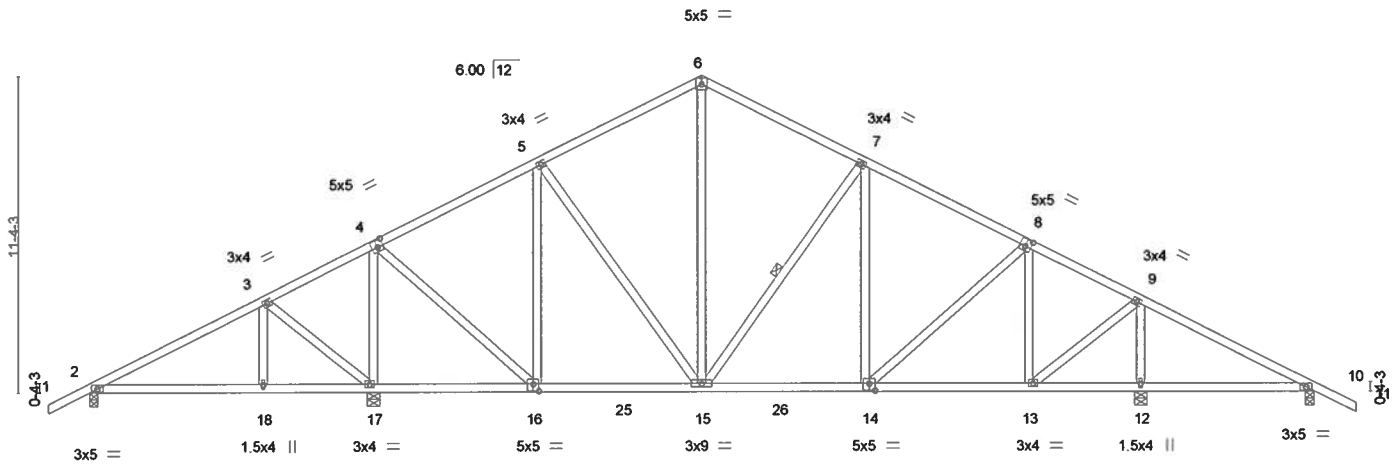
Job	Truss	Truss Type	Qty	Ply	Mathais
Mathais	A2	Common	15	1	T19639793
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Feb 7 2020 MiTek Industries, Inc. Tue Mar 10 08:03:03 2020 Page 1
ID:zx1hmREbPNPJ5bCY0rKphJzeglC-nsv3G2gvBuYHyWk21wTxVp_ackpkpw35XviLfczcOrs

1-6-0	6-2-12	10-2-12	16-1-6	22-0-0	27-10-10	33-9-4	37-9-4	44-0-0	45-6-0
1-6-0	6-2-12	4-0-0	5-10-10	5-10-10	5-10-10	5-10-10	4-0-0	6-2-12	1-6-0

Scale = 1:77.9



6-2-12	10-2-12	16-1-6	22-0-0	27-10-10	33-9-4	37-9-4	44-0-0
6-2-12	4-0-0	5-10-10	5-10-10	5-10-10	5-10-10	4-0-0	6-2-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [14:0-2-8,0-3-0], [16:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	0.07	12-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.09	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 271 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-15

REACTIONS. All bearings 0-3-8 except (jt=length) 17=0-5-8, 12=0-5-8.
(lb) - Max Horz 2=219(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17, 12 except 2=-118(LC 12), 10=-103(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 10 except 2=406(LC 21), 17=1643(LC 1), 12=1445(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-259/199, 3-4=-45/331, 4-5=-693/247, 5-6=-787/357, 6-7=-770/357, 7-8=-973/336, 8-9=-731/248, 9-10=-2/273
BOT CHORD 15-16=0/618, 14-15=0/798, 13-14=0/599
WEBS 3-17=-456/384, 4-17=-1300/370, 4-16=-174/977, 5-16=-524/194, 6-15=-138/354, 7-15=-370/196, 8-14=0/300, 8-13=-529/150, 9-13=-99/969, 9-12=-1306/337

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12 except (jt=lb) 2=118, 10=103.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

March 10,2020

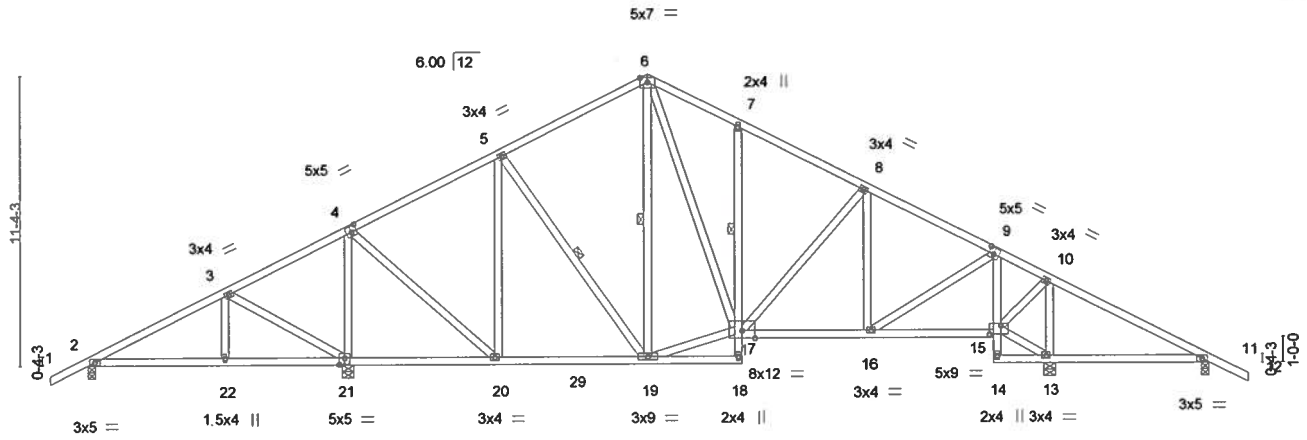
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Mathais T19639794
Mathais	A3	Roof Special	6	1	Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066 8.240 s Feb 7 2020 MiTek Industries, Inc. Tue Mar 10 08:03:05 2020 Page 1
ID:zx1hmREbPNPJ5bCY0rKphJzeglC-jE1qhkiAjWo?BquR9LWPbE3vFYWqHqgO?DBSkUzcOrq

1-6-0	5-4-10	10-2-12	16-1-6	22-0-0	25-8-0	30-7-4	35-6-8	37-9-4	44-0-0	45-6-0
1-6-0	5-4-10	4-10-2	5-10-10	5-10-10	3-8-0	4-11-4	4-11-4	2-2-12	6-2-12	1-6-0

Scale = 1:85.2



5-4-10	10-2-12	16-1-6	22-0-0	25-8-0	30-7-4	35-6-8	37-9-4	44-0-0
5-4-10	4-10-2	5-10-10	5-10-10	3-8-0	4-11-4	4-11-4	2-2-12	6-2-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [9:0-2-8,0-3-0], [15:0-5-8,0-4-0], [21:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.06	13-28	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.09	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 294 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 7-17
WEBS 1 Row at midpt 5-19, 6-19

REACTIONS. All bearings 0-3-8 except (jt=length) 21=0-5-8, 13=0-5-8.
(lb) - Max Horz 2=219(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-116(LC 12), 21=-101(LC 12), 11=-110(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=387(LC 21), 21=1629(LC 1), 13=1610(LC 1)

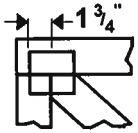
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-273/219, 3-4=-69/361, 4-5=-664/247, 5-6=-715/352, 6-7=-872/427, 7-8=-908/337, 8-9=-947/291, 9-10=-279/131, 10-11=-34/547
BOT CHORD 19-20=0/582, 7-17=-256/164, 16-17=0/792, 9-15=-778/174, 11-13=-411/123
WEBS 3-21=-462/390, 4-21=-1291/394, 4-20=-163/913, 5-20=-487/192, 17-19=0/606, 6-17=-168/559, 8-16=-252/109, 9-16=-79/649, 13-15=-459/138, 10-15=-18/821, 10-13=-1198/255

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=116, 21=101, 11=110.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

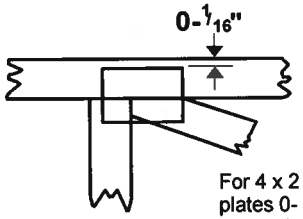
Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 10,2020

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

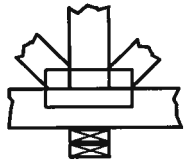
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

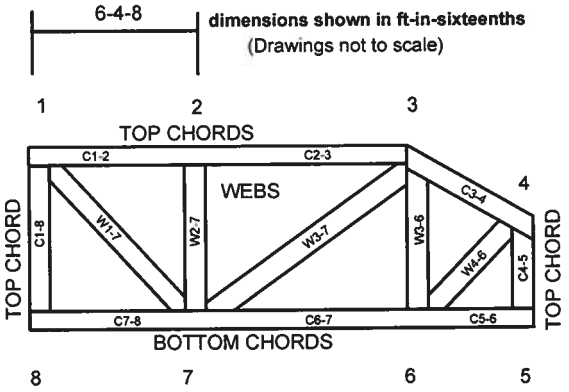


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

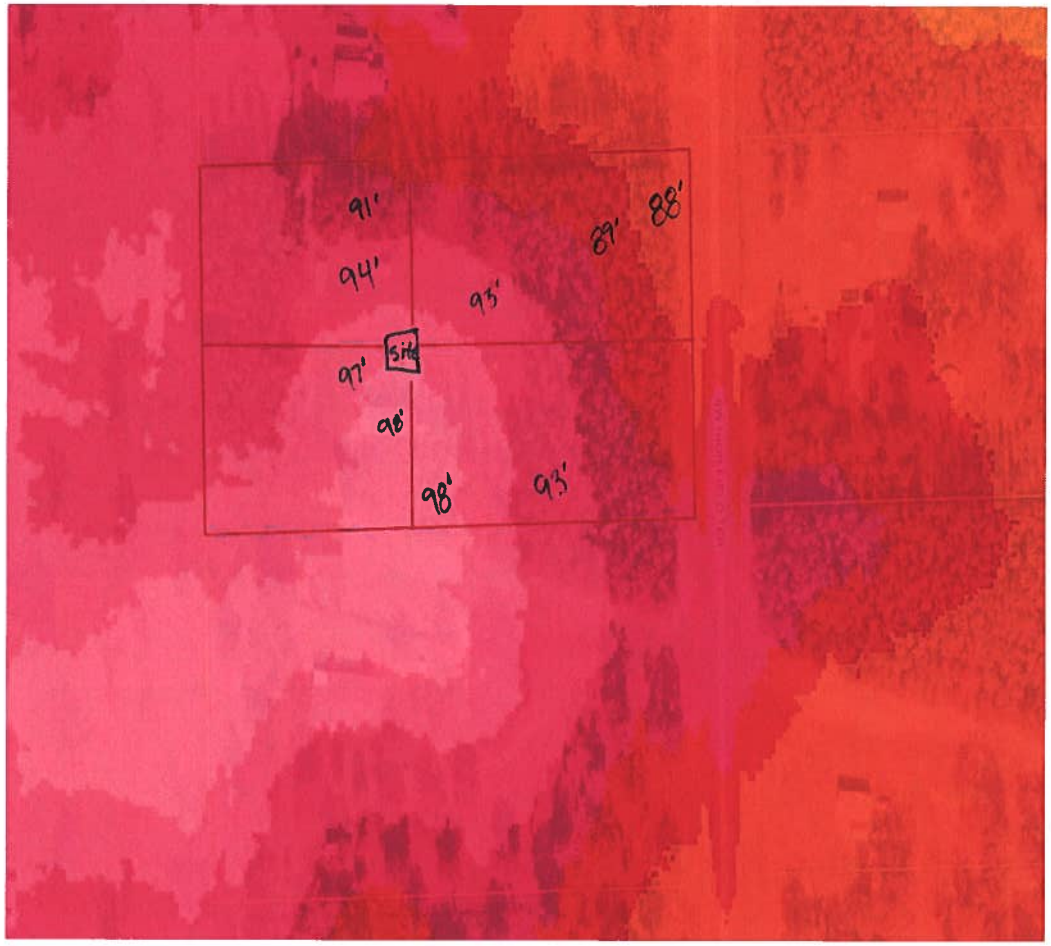
Failure to Follow Could Cause Property Damage or Personal Injury

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

Legend

Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Feb 26 2020 10:21:28 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 01-6S-16-03761-171

Owner: MATHIAS RICHARD L & TAMERA L

Subdivision: MEADOWLANDS PHASE 4

Lot: 71

Acres: 5.009103

Deed Acres: 5 Ac

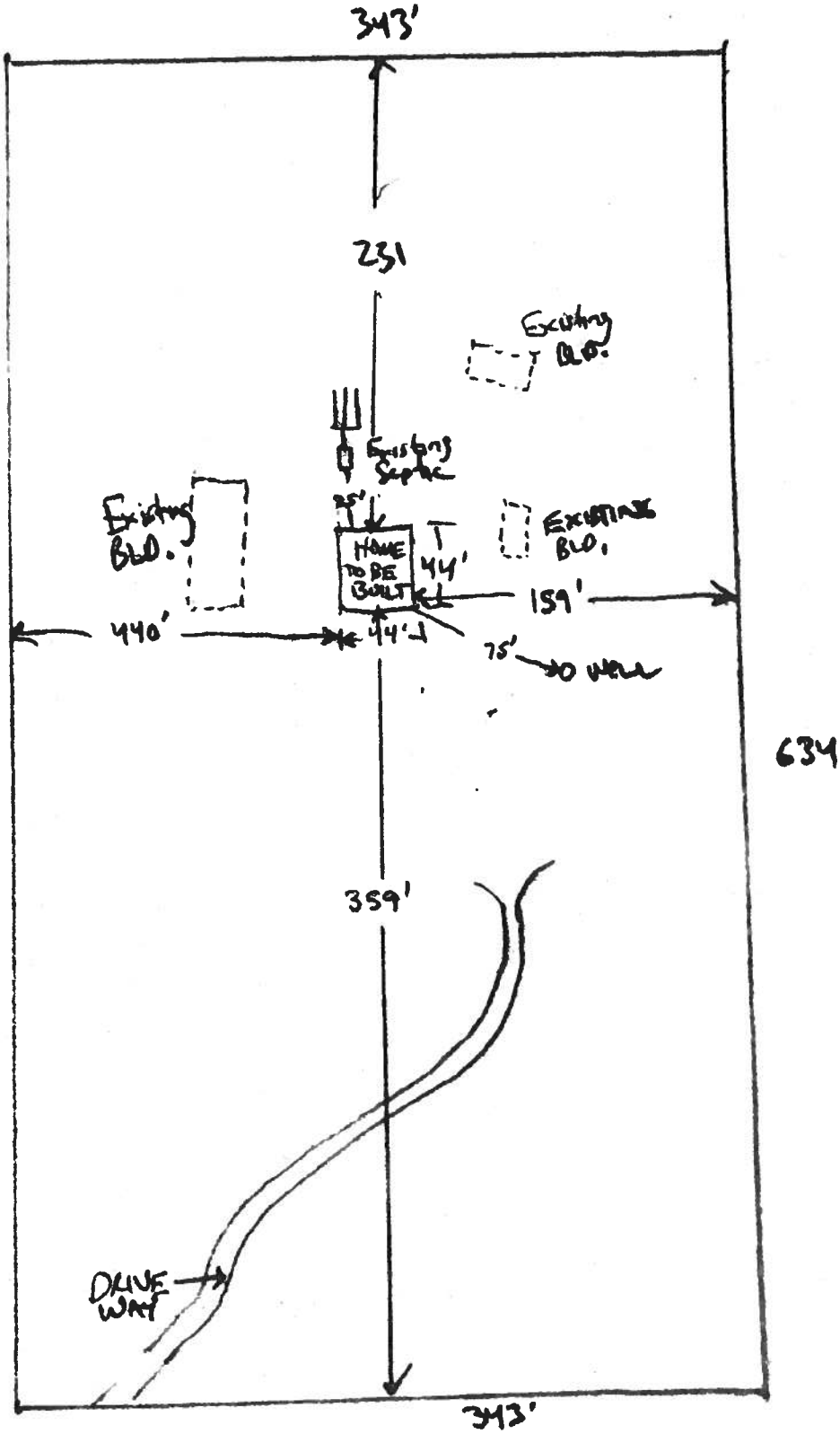
District: District 5 Tim Murphy

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

20-0105



PARCEL
01-6S-16-03761-171

RICHARD & TAMERA MATHIAS
274 High Field Terr.
Lake City FL 32024

APPROVED
Columbia CHD
2/13/20