Columbia County New Building Permit Application

For Office Use Only Application # 14009 Date Received _____ By ____ Permit # 49422

Zoning Official _____ Date _____ Flood Zone _____ Land Use _____ Zoning _____

FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner _____ Date _____

Comments _____

□ 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. _____ OR City Water Fax _____

Applicant (Who will sign/pickup the permit) Cecilio GARCIA Phone 352 494 4657

Address 7490 NE 30 ST High Springs Fl. 32643

Owners Name KyshiA Byrd Phone 352 275-6020

911 Address 122 SW AmiEl court FORT WHITE Fl. 32038

Contractors Name Cecilio GARCIA Phone 352 494-4657

Address 7490 NE 30 ST High Springs Fl. 32643

Contractor Email KGCONSTRUCTIONllc.@YAHOO.COM ***Include to get updates on this job.

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address _____

Mortgage Lenders Name & Address _____

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

Property ID Number 14309 - 001 Estimated Construction Cost $155,500

Subdivision Name _____ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions from a Major Road Turn LEFT on JORDAN ST off US Hwy 27 NORTH of FORT WHITE

Construction of NEW HOME ____ Commercial OR ✓ Residential

Proposed Use/Occupancy RESIDENTIAL Number of Existing Dwellings on Property 1

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 35 Side 92 Side 67 Rear 95

Number of Stories 1 Heated Floor Area 0 Total Floor Area 1689 Acreage .83

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

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.

		Need
ELECTRICAL ☐ CC#_____	Print Name DONALD R. DAVIS Signature DONALD R DAVIS Company Name: High Springs ELECTRIC License #: EC 0000 2306 Phone #: 386 623-0499	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C ☐ CC#_____	Print Name ~~ANGEL L. CARDONA~~ Signature Robert Reina Company Name: ~~L & K REPAIR MAINTENANCE LLC.~~ License #: ~~CAC 1814117~~ Phone #: 321 947-3928	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☐ CC#_____	Print Name JONATHAN I MEJIA Signature Jonathan I Mejia Company Name: JONATHAN WORKS Plumbing LLC. License #: CFC 1430514 Phone #: 561 898-8314	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☐ CC#_____	Print Name Cecilio GARCIA Signature Company Name: KG CONSTRUCTION LLC. License #: CRC 1329233 Phone #: 352 494 4657	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#_____	Print Name_____ Signature_____ Company Name: _____ License #: _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#_____	Print Name_____ Signature_____ Company Name: _____ License#: _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#_____	Print Name_____ Signature_____ Company Name: _____ License #: _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#_____	Print Name_____ Signature_____ Company Name: _____ License #: _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

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

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

CODES: 2023 Florida Building Code 8th Edition and the 2020 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 pai 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 o 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 lo 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.

Kyshia Byrd
Printed Owners Name

Kyshia Byrd
Owners Signature

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

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

Contractor's License Number _____
Columbia County
Competency Card Number _____

Contractor's Signature

Affirmed and subscribed before me the Contractor by means of [X] **physical presence or** [ ] **online notarization, this** 25 **day of** January **20** 24**, who was personally known** [ ] **or produced ID** [X] FLDL

Emaleigh Williams
State of Florida Notary Signature (For the Contractor)

SEAL:

EMALEIGH WILLIAMS
MY COMMISSION # HH 323283
EXPIRES: October 18, 2026

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

ROOFING UNDERLAYMENT AFFIDAVIT

REQUIRED FOR WALK-IN OR PAPER SUBMITTALS

Job Address: 122 SW AMIEL COURT FORT WHITE FL. 32038

I (Print Name) CECILIO GARCIA, as a Florida license Roofing Contractor or an Owner Builder, I understand to comply with the 2020 Florida Building Code 7th 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.

Inst. Number: 202412000069 Book: 1505 Page: 1560 Page 1 of 4 Date: 1/2/2024 Time: 3:35 PM
James M Swisher Jr Clerk of Courts, Columbia County, Florida Doc Mort: 0.00 Int Tax: 0.00 Doc Deed: 0.00

This Instrument Prepared By:
Campus USA Credit Union
14007 NW 1st Road
Jonesville, Florida 32669
(352) 335-9090

After Recording Return To:
CAMPUS USA CREDIT UNION
14007 NW 1ST ROAD
JONESVILLE, FLORIDA 32669

[Space Above This Line For Recording Data]

Permit No.: _____ Tax Folio No.: 336S16-04035-000

NOTICE OF COMMENCEMENT

STATE OF FLORIDA

COUNTY OF Columbia

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of Property:

Begin at a point on the East line of the SW 1/4 of NW 1/4 of Section 33, Township 6 South, Range 16 East, 440 feet North of the Southeast corner of said SW 1/4 of NW 1/4 and run thence West 210 feet; thence North 210 feet; thence East 210 feet; thence South 210 feet to the point of beginning, being one acre of land, more or less, in the SW 1/4 of the NW 1/4 of Section 33, Township 6 South, Range 16 East, Public Records of Columbia County, Florida. Less and Except existing county maintained road right of way for SW Jordan Street.
A.P.N. #: 336S16-04035-000

2. General description of improvement: Single Family Residence

3. Owner information or Lessee information if the Lessee contracted for the improvement:

a. Name and address: Kyshia Byrd
180 SW AMIEL COURT
FORT WHITE, FLORIDA 32038

b. Interest in property: _____

c. Name and address of fee simple title holder (if other than Owner): _____

4. a. Contractor (name and address): KG CONSTRUCTION LLC
7490 NE 30 ST
HIGH SPRINGS, FLORIDA 32643

b. Contractor's phone number: _____

5. Surety (if applicable, a copy of the payment bond is attached):

a. Name and address: _____

b. Phone Number: _____

c. Amount of bond: _____

6. a. Lender: CAMPUS USA CREDIT UNION
14007 NW 1ST ROAD
JONESVILLE, FLORIDA 32669

b. Lenders phone number: (352) 335-9090

7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7, Florida Statutes:

a. Name and address: _____

b. Phone numbers of designated persons: _____

8. a. In addition to himself, Owner designates _____
of _____
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statues.

b. Phone number of person or entity designated by owner: _____

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Kyshia Byrd 1-2-24

Signature of Owner/Lessee Kyshia Byrd Date

State of FLORIDA)
)
County of ALACHUA)

Sworn to (or affirmed) and subscribed before me by means of:

☑ Physical Presence,

- OR -

| | Online Notarization,

this 2nd *Date* day of January *Month*, 2024 *Year*, by

Kyshia Byrd

Name of Person Making Statement

DANIELLE M. MARDEN
MY COMMISSION # HH 308544
EXPIRES: February 6, 2025
Bonded Thru Notary Public Underwriters

Signature of Notary Public - State of Florida

Danielle M. Marden

Name of Notary Typed, Printed or Stamped

(Place Notary Seal Stamp Above)

☐ Personally Known
☑ Produced Identification

Type of Identification Produced: Drivers License

Inst. Number: 202412000068 Book: 1505 Page: 1536 Page 1 of 24 Date: 1/2/2024 Time: 3:35 PM
James M Swisher Jr Clerk of Courts, Columbia County, Florida Doc Mort: 490.00 Int Tax: 0.00 Doc Deed: 0.00

This Instrument Prepared By:
Campus USA Credit Union/Stephanie Hansen
14007 NW 1st Road
Jonesville, Florida 32669
(352) 335-9090
After Recording Return To:
CAMPUS USA CREDIT UNION
14007 NW 1ST ROAD
JONESVILLE, FLORIDA 32669

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MORTGAGE

DEFINITIONS

Words used in multiple sections of this document are defined below and other words are defined under the caption TRANSFER OF RIGHTS IN THE PROPERTY and in Sections 3, 4, 10, 11, 12, 16, 19, 24, and 25. Certain rules regarding the usage of words used in this document are also provided in Section 17.

Parties

(A) "Borrower" is Kyshia Byrd , an unmarried person.

currently residing at 180 SW AMIEL COURT FORT WHITE, FLORIDA 32038

Borrower is the mortgagor under this Security Instrument.
(B) "Lender" is CAMPUS USA CREDIT UNION

Lender is a STATE CHARTERED CREDIT UNION organized and existing under the laws of FLORIDA . Lender's address is 14007 NW 1ST ROAD, JONESVILLE, FLORIDA 32669
Lender is the mortgagee under this Security Instrument. The term "Lender" includes any successors and assigns of Lender.

KG Construction LLC
7490 Ne 30th St
High Springs, FL
32643

To the Walton County Building Department:

I would like to add these subtrades to permits number RB-23-9439, RB-23-9438, and RB-23-9437 project Lot 1 Salt Water;

Plumbing – HD Plumbing Lic # CFC1430787 PLEASE RENTALE DE gas PERMIT FOR THI
THREE HOUSES

HV/AC – Robert Pena Lic # CAC1814117

Electrical – KRG Electrical Lic # EC13006264

Roofing – Emerald Coast Roofscapes Inc. Lic # CCC1327563

Contractor: _____

Notary Seal:

_____

Commission Expires:

_____

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2023 EFFECTIVE 1 JANUARY 2024 AND THE NATIONAL ELECTRICAL 2020 EFFECTIVE 1 JANUARY 2024

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

Submit Online at- http://www.columbiacountyfla.com/BuildingandZoning.asp

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		Select From Drop down		
1	Two (2) complete sets of plans containing the following:	✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	✓		
3	**Condition space (Sq. Ft.)** 1,549 **Total (Sq. Ft.) under roof** 1,649	Yes	No	NA

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

Site Plan information including:

4	Dimensions of lot or parcel of land	- ✓		
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.	- ✓		

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
8	**Plans or specifications must show compliance with FBCR Chapter 3**	Yes	No	NA
		Select From 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.	-		

Elevations Drawing including:

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

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	-	✓		
22	Raised floor surfaces located more than 30 inches above the floor or grade	-	✓		
23	All exterior and interior shear walls indicated	-	✓		
24	Shear wall opening shown (Windows, Doors and Garage doors)	-	✓		
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each 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.	-	✓		
26	Safety glazing of glass where needed	-	✓		
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	-		✓	
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	-	✓	✓	
29	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: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

FBCR 403: Foundation Plans

Select From Drop down

30	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	-	✓		
31	All posts and/or column footing including size and reinforcing	-	✓		
32	Any special support required by soil analysis such as piling.	-		✓	
33	Assumed load-bearing valve of soil Pound Per Square Foot	-	✓		
34	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 Vapor 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

37	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 Framing System: First and/or second story

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

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

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

Select from Drop down

53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	-	✓		
54	Fastener schedule for structural members per table FBC 2304.10.1 are to be shown	-	✓		
55	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	-	✓		
56	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	-	✓		
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC 2304.3.	-	✓		
58	Indicate where pressure treated wood will be placed	-	✓		
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	-	✓		
60	A detail showing gable truss bracing, wall balloon framing details or/and wall hinge bracing detail	-	✓		

FBC :ROOF SYSTEMS:

61	Truss design drawing shall meet section FBC 2303.1 Wood trusses	-	✓		
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	-	✓		
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	-	✓		
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	-	✓		
65	Provide dead load rating of trusses	-	✓		

FBC 2304.4:Conventional Roof Framing Layout

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

FBC 2304.8 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

72	Include all materials which will make up the roof assembles covering	-	N/✓		
73	Submit Florida Product Approval numbers for each component of the roof assembles covering	-	✓		

FBC Energy Chapter 4

Residential construction shall comply with this code by using the following compliance methods in the FBC Chapter 4, Residential buildings compliance methods. **Two of the required forms are to be submitted**, *N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable			
		Select from Drop Down			
74	Show the insulation R value for the following areas of the structure	-	✓		
75	Attic space	-	✓		
76	Exterior wall cavity	-	✓		
77	Crawl space	-	✓		

HVAC information

78	Submit two copies of a Manual J sizing equipment or equivalent computation study	-	✓		
79	Exhaust fans shown in bathrooms **Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required**	-	✓		
80	Show clothes dryer route and total run of exhaust duct	-	✓		

Plumbing Fixture layout shown

81	All fixtures waste water lines shall be shown on the foundation plan	-	✓		
82	Show the location of water heater	-	✓		

Private Potable Water

83	Pump motor horse power	-	✓		
84	Reservoir pressure tank gallon capacity	-	✓		
85	Rating of cycle stop valve if used	-	✓		

Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-	✓		
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by **Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A**	-	✓		
88	Show the location of smoke detectors & Carbon monoxide detectors	-	✓		
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 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

93	**Building Permit Application** A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted.	- ✓		
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.	- ✓		
99	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municode.com)	- ✓		
100	**CERTIFIED FINISHED FLOOR ELEVATIONS** will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise 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**	-	✓	
102	**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.	-	✓	
103	**911 Address:** An application for a 911address must be applied for and **received** through the Columbia County Office of 911 Addressing Department online.	- ✓		

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

Disclosure Statement for Owner Builders:

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

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

Section 105 of the Florida Building Code defines the:

Time limitation of application.

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

Single-family residential dwelling.

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

Permit intent.

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

If work has commenced.

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

New Permit.

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

Work Shall Be:

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

The Fee:

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

Notification:

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

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	MASONITE	EXTERIOR DOOR	FL 22513-8
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	JEL-WEN	Vynil single Hung	FL. 12269-3
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	GAF Timberline	ASPHAT ARCH SHINGLES	FL. 10124-R20
B. NON-STRUCT METAL			
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			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS	JAMES HARDI	MASONRY UNITS	FL. 13192

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

NOTES: _____

MiTek

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

RE: 3833011 - KYSHIA BYRD

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:
Customer Info: K G CONSTRUCTION LLC Project Name: Kyshia Bryd Model: 1549
Lot/Block: N/A Subdivision: N/A
Address: 122 SW Amiel Court, TBD
City: Columbia Cty State: FL

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 12 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.

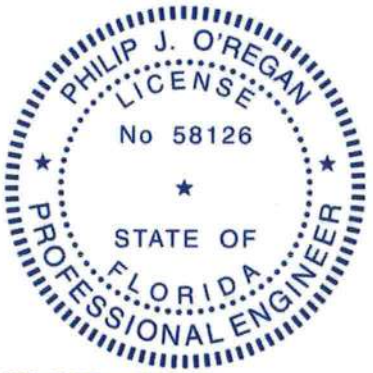
No.	Seal#	Truss Name	Date
1	T32619421	T01	1/15/24
2	T32619422	T01G	1/15/24
3	T32619423	T02	1/15/24
4	T32619424	T03G	1/15/24
5	T32619425	T04	1/15/24
6	T32619426	T04G	1/15/24
7	T32619427	V01	1/15/24
8	T32619428	V02	1/15/24
9	T32619429	V03	1/15/24
10	T32619430	V04	1/15/24
11	T32619431	V05	1/15/24
12	T32619432	V06	1/15/24

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.
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: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2025.

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



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 16,2024

Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD	T32619421
3833011	T01	COMMON	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:02:56 2024 Page 1
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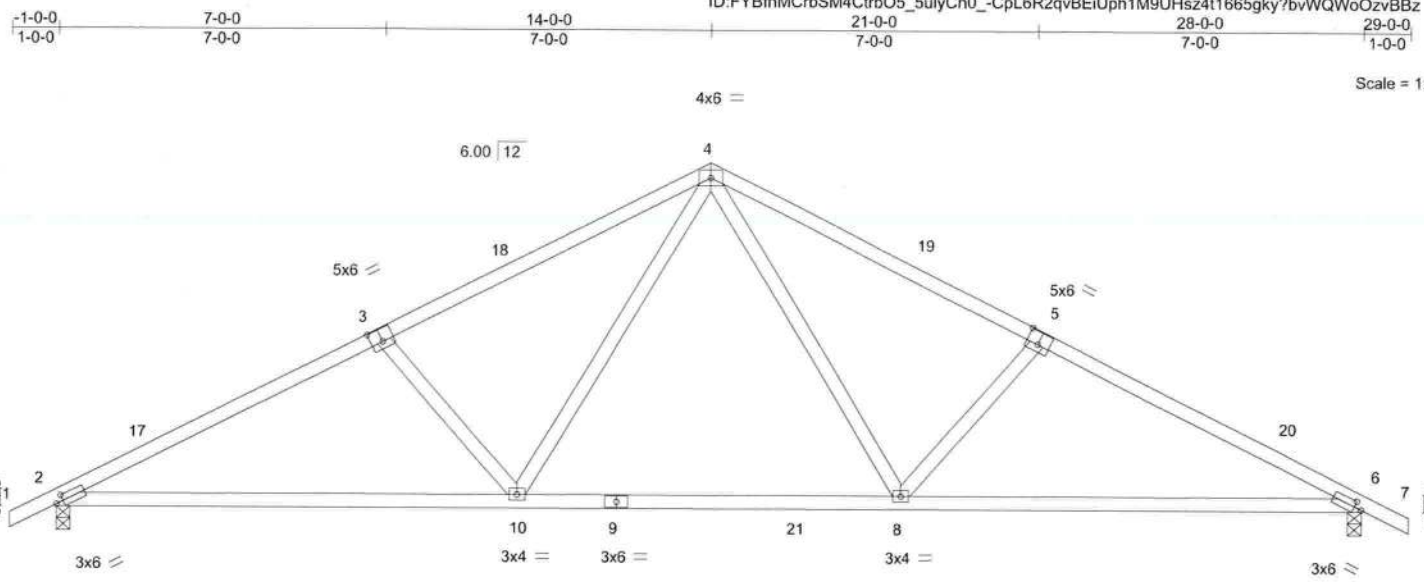

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [6:0-1-15,0-1-8]

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	0.58	Vert(LL)	-0.21	8-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.46	8-16	>736	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 128 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=125(LC 12)
Max Uplift 2=-291(LC 12), 6=-291(LC 13)
Max Grav 2=1179(LC 2), 6=1178(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1954/470, 3-4=-1761/431, 4-5=-1760/431, 5-6=-1954/470
BOT CHORD 2-10=-454/1723, 8-10=-176/1144, 6-8=-329/1722
WEBS 4-8=-194/724, 5-8=-409/281, 4-10=-194/726, 3-10=-409/281

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 29-0-0 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) 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 2 and 291 lb uplift at joint 6.

This item has been digitally signed and sealed by ORegan, Philip, F on the date indicated here. Printed copies of this document are not considere signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 16,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD
3833011	T01G	GABLE	2	1	T32619422
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:02:57 2024 Page 1
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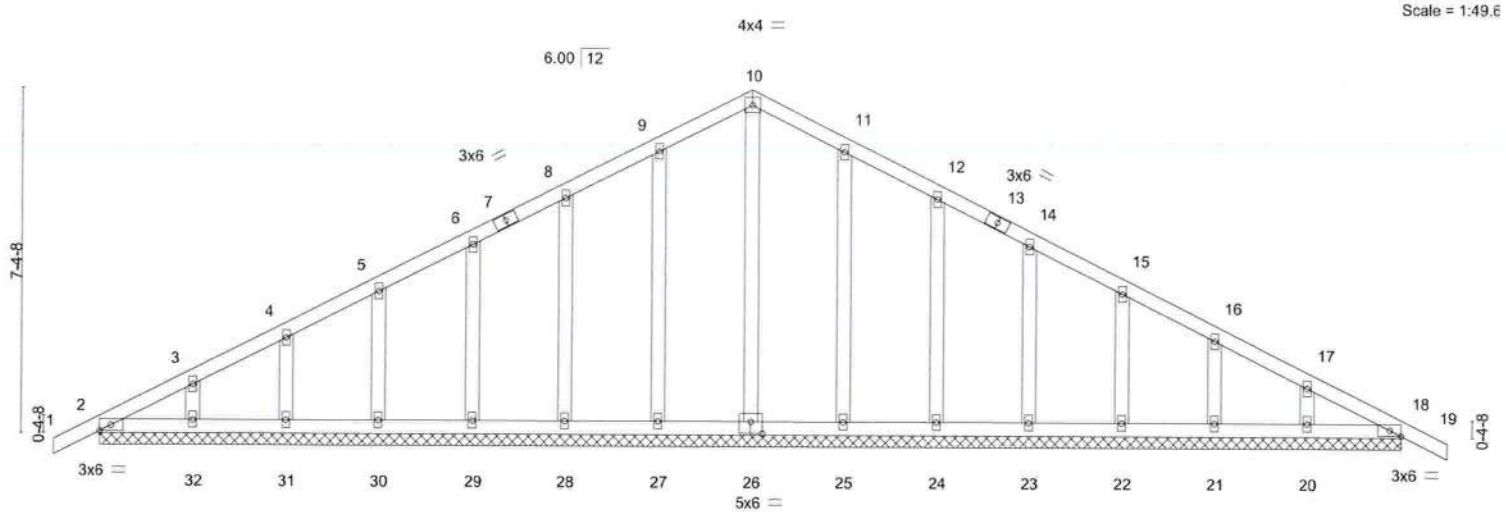
-1-0-0 1-0-0 | 14-0-0 14-0-0 | 28-0-0 14-0-0 | 29-0-0 1-0-0

Scale = 1:49.6



28-0-0
28-0-0

Plate Offsets (X,Y)-- [18:0-2-15,Edge], [26:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	-0.00	19	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	19	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 161 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

REACTIONS. All bearings 28-0-0.
(lb) - Max Horz 2=125(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 26, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18

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 7-22; 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 Zone3 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.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18.

This item has been digitally signed and sealed by ORegan, Philip, P on the date indicated here. Printed copies of this document are not considere signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 16,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD	T32619423
3833011	T02	ROOF SPECIAL	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:02:59 2024 Page 1
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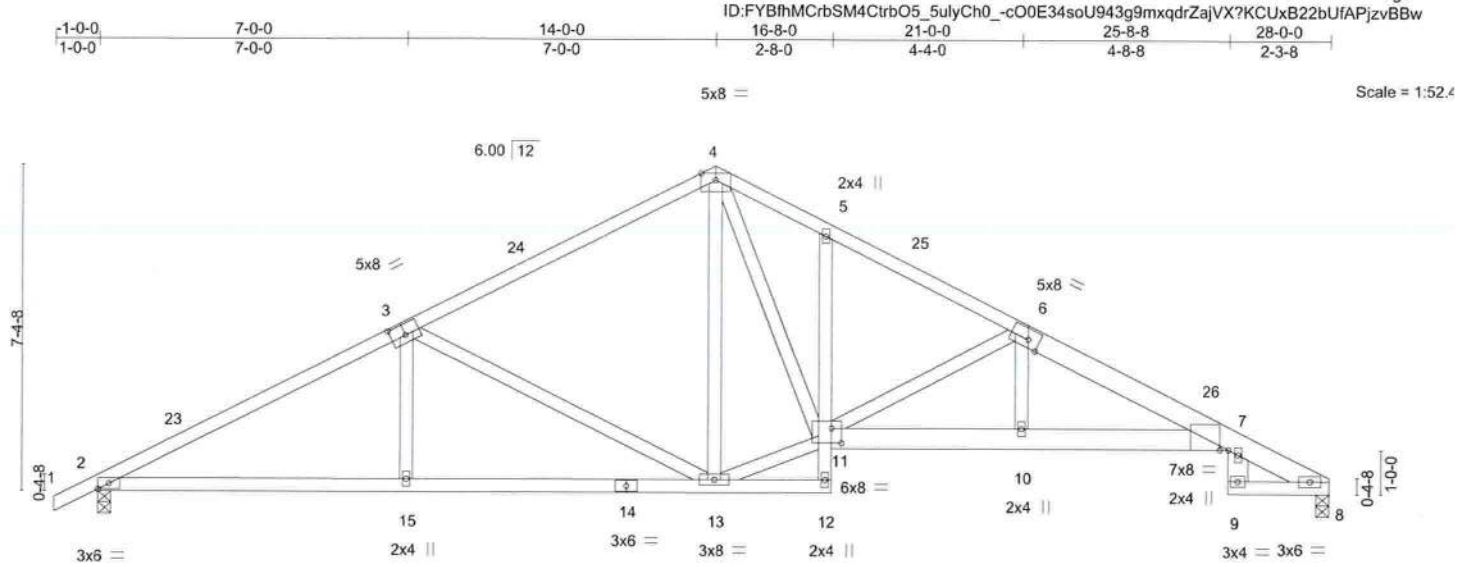

7-0-0	14-0-0	16-8-0	21-0-0	25-8-8	28-0-0
7-0-0	7-0-0	2-8-0	4-4-0	4-8-8	2-3-8

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [6:0-3-0,Edge], [7:0-2-7,0-0-0], [11:0-2-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.20	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.37	7-10	>918	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.22	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 164 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-8: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
5-12: 2x4 SP No.3, 7-11: 2x6 SP M 26, 7-9: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-7-3 oc bracing: 2-15
8-9-2 oc bracing: 13-15.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=133(LC 16)
Max Uplift 2=-290(LC 12), 8=-263(LC 13)
Max Grav 2=1085(LC 1), 8=1030(LC 1)

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

TOP CHORD 2-3=-1866/461, 3-4=-1254/338, 4-5=-1629/467, 5-6=-1695/405, 6-7=-2565/601, 7-21=-744/207
BOT CHORD 2-15=-454/1612, 13-15=-453/1616, 10-11=-466/2345, 7-10=-463/2318, 7-9=-93/396
WEBS 3-15=0/297, 3-13=-655/309, 11-13=-162/1014, 4-11=-289/1048, 6-11=-1003/330, 6-10=-54/443

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 27-10-4 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 (jt=lb) 2=290, 8=263.

This item has been digitally signed and sealed by ORegan, Philip, P on the date indicated here. Printed copies of this document are not considere signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 16,202

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD	T32619424
3833011	T03G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:01 2024 Page 1
ID:FYBfhMCrbSM4CtrbO5_5ulyCh0_-Zn8?Ulu20mKnvSwJy2t1g8bvl7vuP6uL3o8HUczvBBu

-1-0-0	7-0-0	14-0-0	17-0-0	22-4-14	27-10-4	34-0-0	35-0-0
1-0-0	7-0-0	7-0-0	3-0-0	5-4-14	5-5-6	6-1-12	1-0-0

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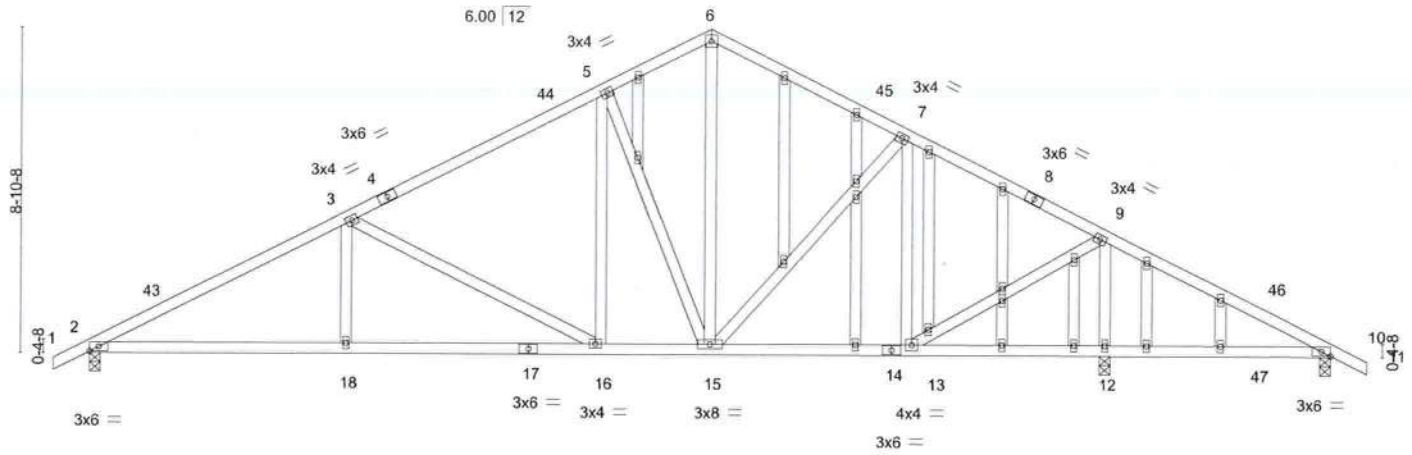

7-0-0	14-0-0	17-0-0	22-4-14	27-8-8	27-10-4	34-0-0
7-0-0	7-0-0	3-0-0	5-4-14	5-3-10	0-1-12	6-1-12

Plate Offsets (X,Y)-- [10:0-2-15,Edge]

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	0.48	Vert(LL)	-0.08	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.17	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 237 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-0-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 12=0-3-8
Max Horz 2=-150(LC 13)
Max Uplift 2=-293(LC 12), 10=-104(LC 8), 12=-331(LC 13)
Max Grav 2=1041(LC 1), 10=166(LC 26), 12=1498(LC 1)

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

TOP CHORD	2-3=-1765/462, 3-5=-1156/325, 5-6=-854/312, 6-7=-875/303, 7-9=-772/240, 9-10=-109/418
BOT CHORD	2-18=-470/1519, 16-18=-470/1519, 15-16=-207/953, 13-15=-67/628, 12-13=-305/131, 10-12=-305/131
WEBS	3-18=0/303, 3-16=-636/296, 5-16=-96/415, 5-15=-616/287, 6-15=-218/540, 7-13=-442/153, 9-13=-228/1072, 9-12=-1337/343

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 35-0-0 zone; porch 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
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) except (jt=lb) 2=293, 10=104, 12=331.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 16,202

MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

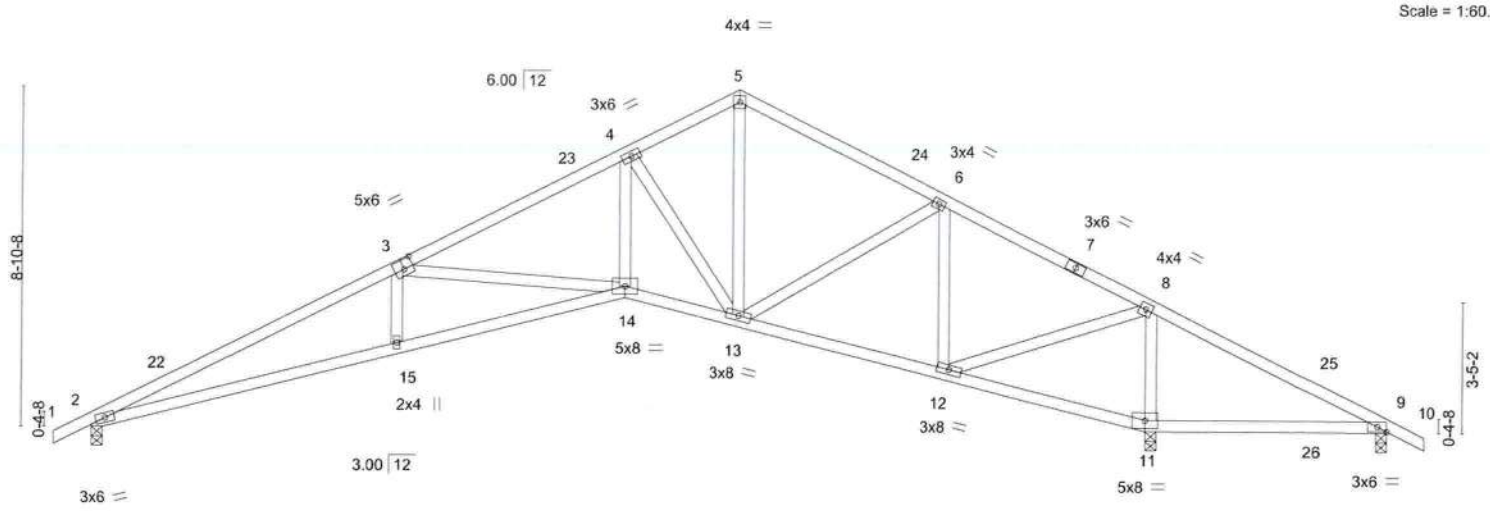
Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD
3833011	T04	Roof Special	10	1	T32619425

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:03 2024 Page 1
ID:FYBfhMCrbSM4CtrbO5_5ulyCh0_-VAGlvRvIYNaV8m3i3SvVlZgBWxYet13dW5dOYUzvBBs

1-0-0	8-0-0	14-0-0	17-0-0	22-4-14	27-8-8	34-0-0	35-0-0
1-0-0	8-0-0	6-0-0	3-0-0	5-4-14	5-3-10	6-3-8	1-0-0

Scale = 1:60.



8-0-0	14-0-0	17-0-0	22-4-14	27-8-8	27-10-4	34-0-0
8-0-0	6-0-0	3-0-0	5-4-14	5-3-10	0-1-12	6-1-12

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [9:0-2-15,Edge]

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	0.76	Vert(LL)	-0.17	15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.33	15-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.19	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 172 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-7-5 oc bracing.

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 9=0-3-8
Max Horz 2=-150(LC 13)
Max Uplift 2=-263(LC 12), 11=-459(LC 12), 9=-477(LC 25)
Max Grav 2=921(LC 1), 11=2113(LC 1), 9=149(LC 12)

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

TOP CHORD	2-3=-2610/744, 3-4=-1604/417, 4-5=-822/256, 5-6=-854/254, 6-8=-391/205, 8-9=-383/1514
BOT CHORD	2-15=-735/2349, 14-15=-732/2327, 13-14=-286/1408, 12-13=0/308, 11-12=-1409/409, 9-11=-1277/375
WEBS	3-15=0/303, 3-14=-905/433, 4-14=-268/1073, 4-13=-1171/398, 5-13=-155/494, 6-13=-133/569, 6-12=-814/230, 8-12=-347/1655, 8-11=-1628/381

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 35-0-0 zone; porch 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=263, 11=459, 9=477.

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Date:

January 16,202

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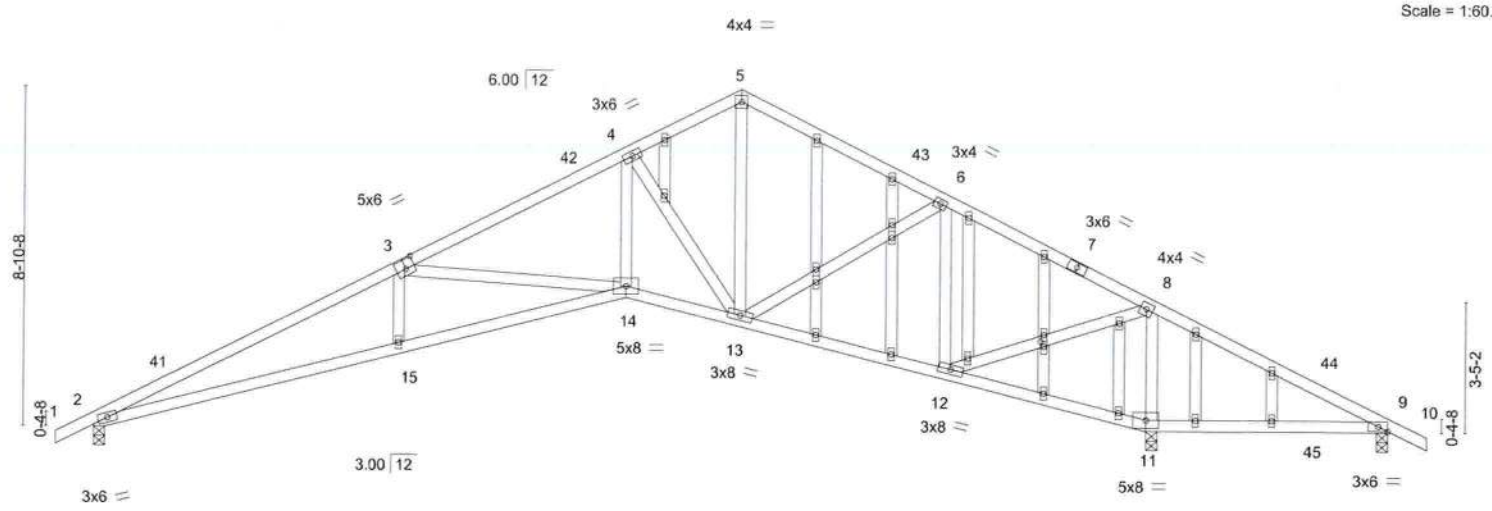
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD	T32619426
3833011	T04G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:05 2024 Page 1
ID:FYBfhMCrbSM4CtrbO5_5ulyCh0_-RYOWK7xZ4?qCO4D4Btyzq_IX?IE6LxZw_P6VdNzvBBq

1-0-0	8-0-0	14-0-0	17-0-0	22-4-14	27-8-8	34-0-0	35-0-0
1-0-0	8-0-0	6-0-0	3-0-0	5-4-14	5-3-10	6-3-8	1-0-0

Scale = 1:60.



8-0-0	14-0-0	17-0-0	22-4-14	27-8-8	34-0-0
8-0-0	6-0-0	3-0-0	5-4-14	5-3-10	6-3-8

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [9:0-2-15,Edge], [28:0-1-11,0-1-0]

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	0.76	Vert(LL)	-0.17	15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.33	15-37	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.19	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 209 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-7-5 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-3-8, 11=0-3-8
Max Horz 2=-150(LC 13)
Max Uplift 2=-263(LC 12), 9=-477(LC 25), 11=-459(LC 12)
Max Grav 2=921(LC 1), 9=149(LC 12), 11=2113(LC 1)

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

TOP CHORD	2-3=-2610/744, 3-4=-1604/417, 4-5=-822/256, 5-6=-854/254, 6-8=-391/205, 8-9=-383/1514
BOT CHORD	2-15=-735/2349, 14-15=-732/2327, 13-14=-286/1408, 12-13=0/308, 11-12=-1409/409, 9-11=-1277/375
WEBS	3-15=0/303, 3-14=-905/433, 4-14=-268/1073, 4-13=-1171/398, 5-13=-155/494, 6-13=-133/569, 6-12=-814/230, 8-12=-347/1655, 8-11=-1628/381

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 35-0-0 zone; porch 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=263, 9=477, 11=459.

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Philip J. O'Regan PE No.58126
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Date:

January 16,202

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Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD
3833011	V01	GABLE	1	1	T32619427
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:06 2024 Page 1
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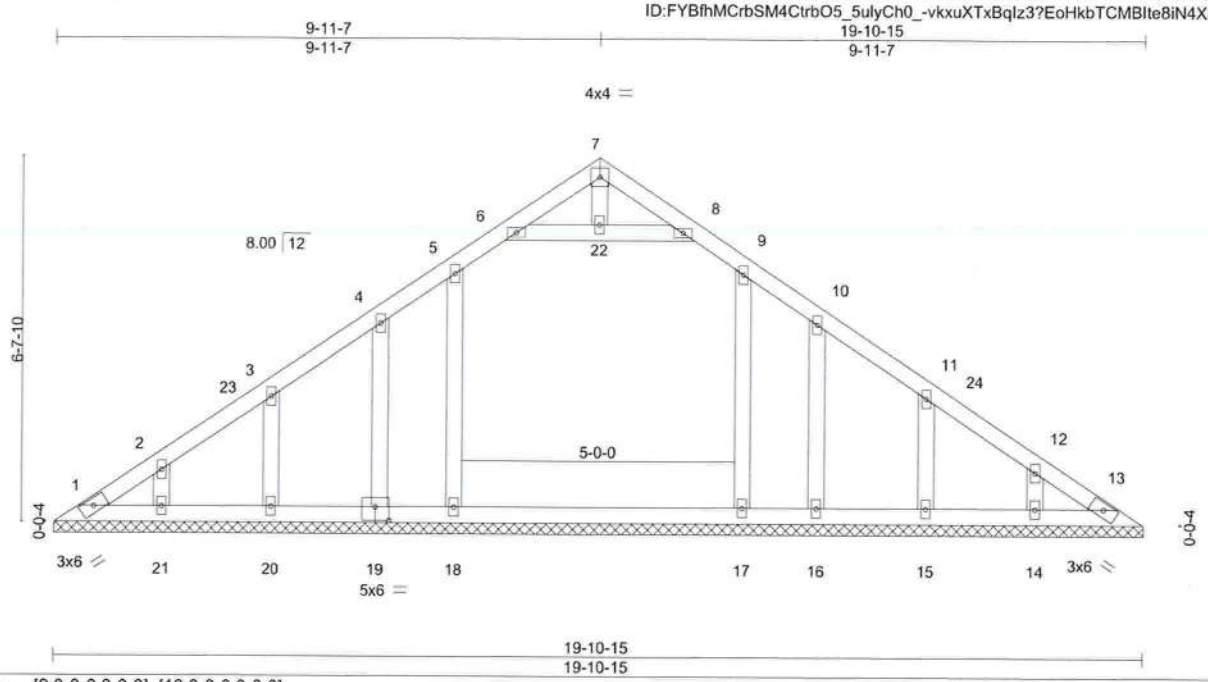

Plate Offsets (X,Y)-- [9:0-0-0,0-0-0], [19:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 101 lb	FT = 20%

LUMBER-

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

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.

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.

REACTIONS. All bearings 19-10-15.
(lb) - Max Horz 1=-156(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 18, 17, 19, 20, 21, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 20, 21, 16, 15, 14 except 18=389(LC 19), 17=371(LC 20)

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 7-22; 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 Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 9-11-7, Zone2 9-11-7 to 13-11-7, Zone1 13-11-7 to 19-5-2 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 18, 17, 19, 20, 21, 16, 15, 14.

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Date:

January 16,202

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD	T32619428
3833011	V02	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:08 2024 Page 1
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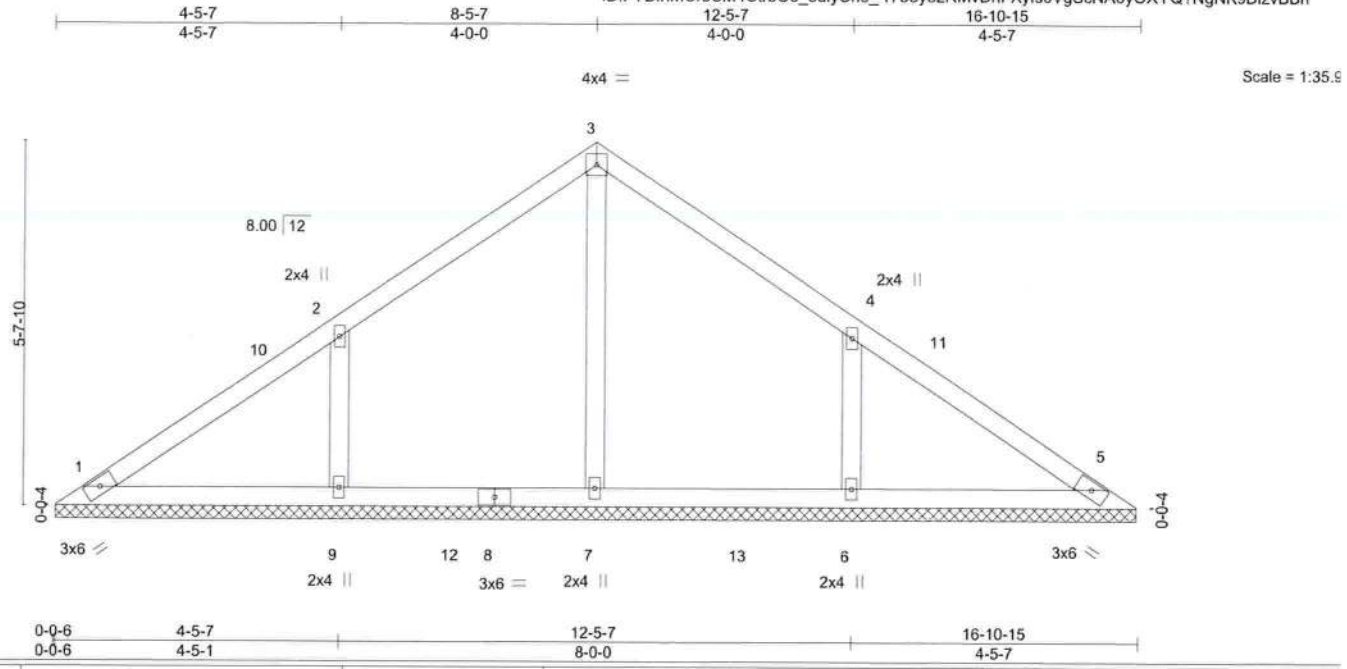

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 68 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

REACTIONS. All bearings 16-10-3.
(lb) - Max Horz 1=-131(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-200(LC 12), 6=-200(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=325(LC 19), 9=450(LC 19), 6=449(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-279/220, 4-6=-279/219

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 8-5-7, Zone2 8-5-7 to 12-5-7, Zone1 12-5-7 to 16-5-2 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) Gable requires continuous bottom chord bearing.
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) 1, 5 except (jt=lb) 9=200, 6=200.

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Date:

January 16,202

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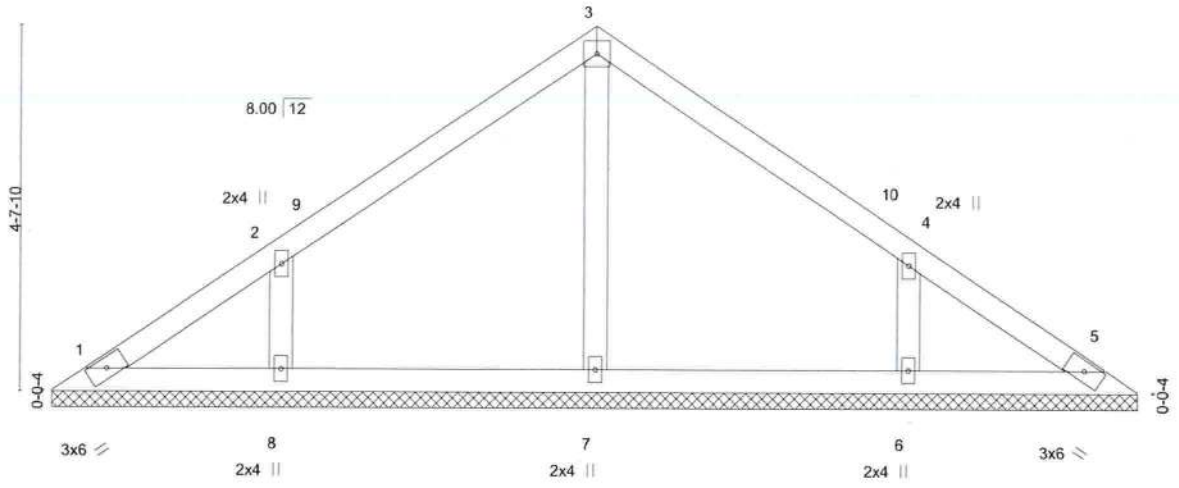
Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD
3833011	V03	Valley	1	1	T32619429
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:09 2024 Page 1
ID:FYBfhMCrbSM4CtrbO5_5ulyCh0_-KJd09U_37DLeshXsPj0v_qwMaMl8HuaWu14im8zvBBm

2-11-7	6-11-7	10-11-7	13-10-15
2-11-7	4-0-0	4-0-0	2-11-7

4x4 =

Scale = 1:29.4



0-0-6	2-11-7	10-11-7	13-10-15
0-0-6	2-11-1	8-0-0	2-11-7

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 54 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

REACTIONS. All bearings 13-10-3.
(lb) - Max Horz 1=-107(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-166(LC 12), 6=-166(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=306(LC 19), 6=305(LC 20)

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 7-22; 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 Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 6-11-7, Zone2 6-11-7 to 10-11-7, Zone1 10-11-7 to 13-5-2 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=166, 6=166.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 16,202

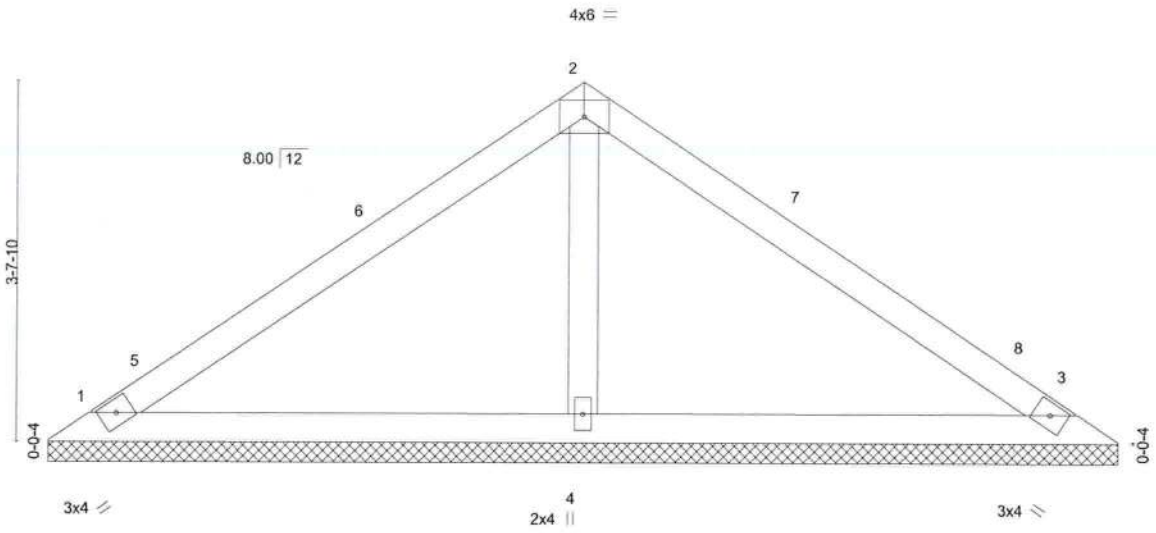
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD
3833011	V04	Valley	1	1	T32619430
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:10 2024 Page 1
ID:FYBfhMCrbSM4CtrbO5_5ulyCh0_-oWBPNq_huXTVUr62zRX8X1TVym3R0Lrf7hpGlazvBBI

5-5-7 / 5-5-7 — 10-10-15 / 5-5-7

Scale = 1:23.4



0-0-6 / 0-0-6 — 10-10-15 / 10-10-9

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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 38 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

REACTIONS. (size) 1=10-10-3, 3=10-10-3, 4=10-10-3
Max Horz 1=82(LC 9)
Max Uplift 1=-57(LC 12), 3=-68(LC 13), 4=-66(LC 12)
Max Grav 1=180(LC 1), 3=180(LC 1), 4=376(LC 1)

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 7-22; 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 Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 5-5-7, Zone2 5-5-7 to 9-8-6, Zone1 9-8-6 to 10-5-2 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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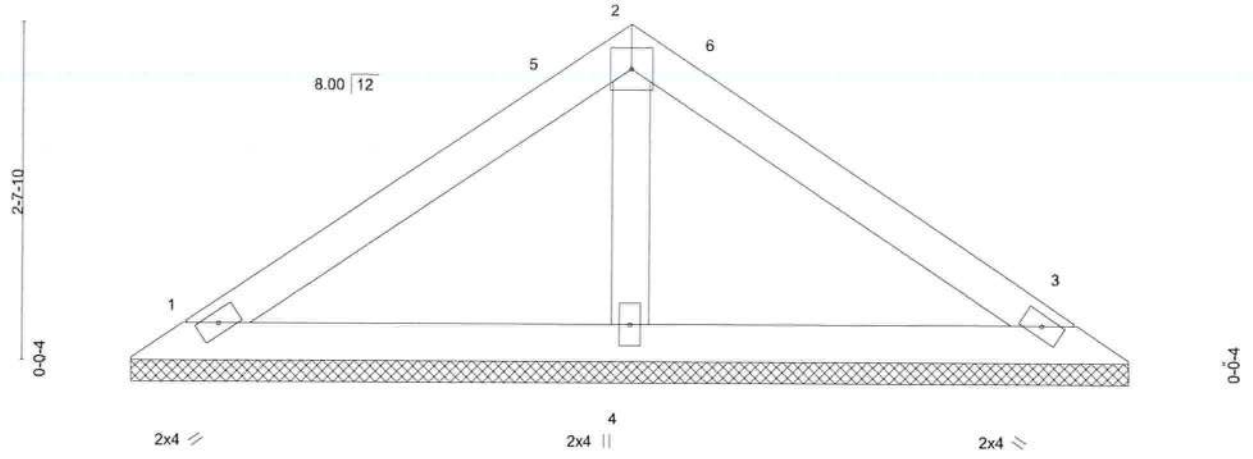
Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD
3833011	V05	Valley	1	1	T32619431
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:11 2024 Page 1
ID:FYBfhMCrbSM4CtrbO5_5ulyCh0_-GilnaA?JfqbM6?gEX82N3F?iy9RcloRpMLZpq0zvBBk

3-11-7 / 3-11-7 — 7-10-15 / 3-11-7

4x4 =

Scale = 1:18.



7-10-9 / 7-10-9 — 7-10-15 / 0-0-6

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

REACTIONS. (size) 1=7-10-3, 3=7-10-3, 4=7-10-3
Max Horz 1=-57(LC 8)
Max Uplift 1=-40(LC 12), 3=-48(LC 13), 4=-46(LC 12)
Max Grav 1=126(LC 1), 3=126(LC 1), 4=262(LC 1)

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 7-22; 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 Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 3-11-7, Zone3 3-11-7 to 7-5-2 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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Job	Truss	Truss Type	Qty	Ply	KYSHIA BYRD	T32619432
3833011	V06	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Jan 4 2024 MiTek Industries, Inc. Mon Jan 15 07:03:12 2024 Page 1
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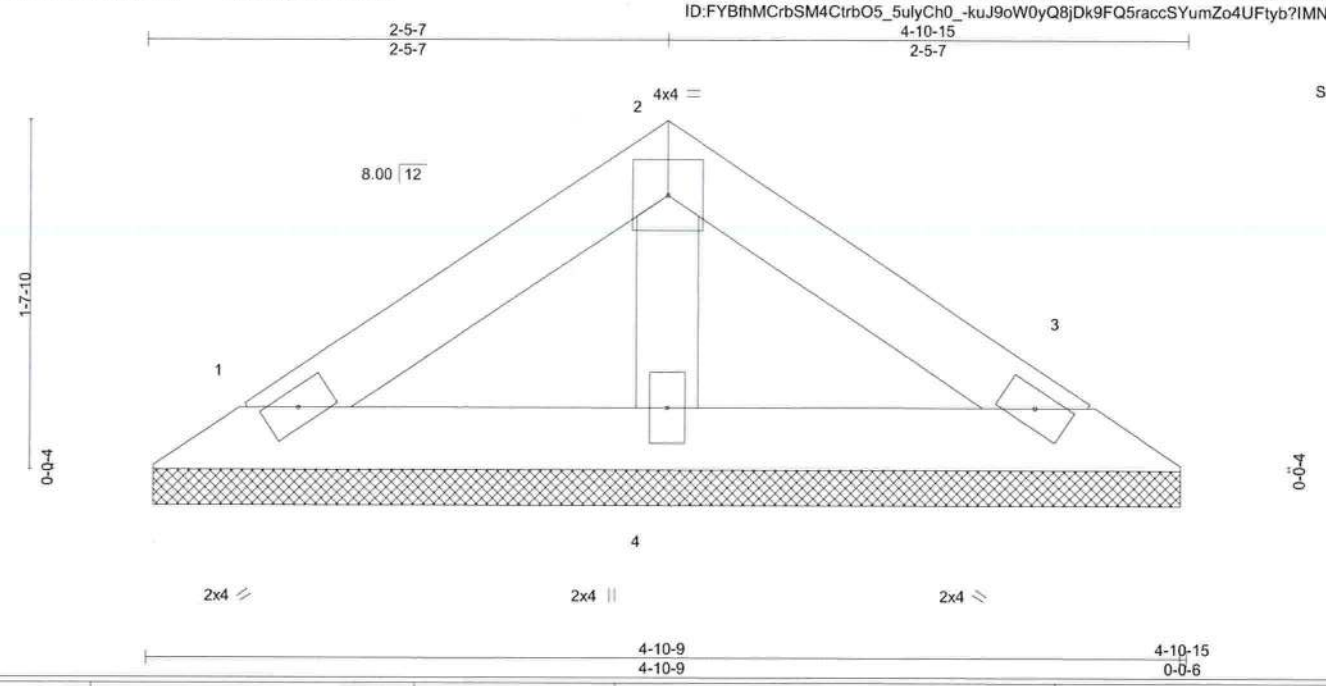

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-10-3, 3=4-10-3, 4=4-10-3
Max Horz 1=33(LC 9)
Max Uplift 1=-28(LC 12), 3=-32(LC 13), 4=-17(LC 12)
Max Grav 1=78(LC 1), 3=78(LC 1), 4=136(LC 1)

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 7-22; 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 Zone3 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) Gable requires continuous bottom chord bearing.
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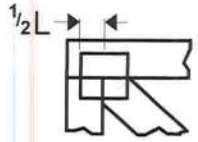
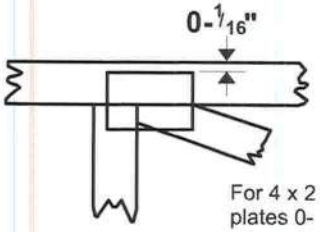
Symbols

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 software or upon request.

PLATE SIZE

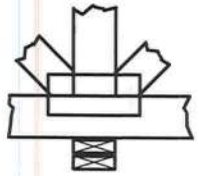
4 x 4

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

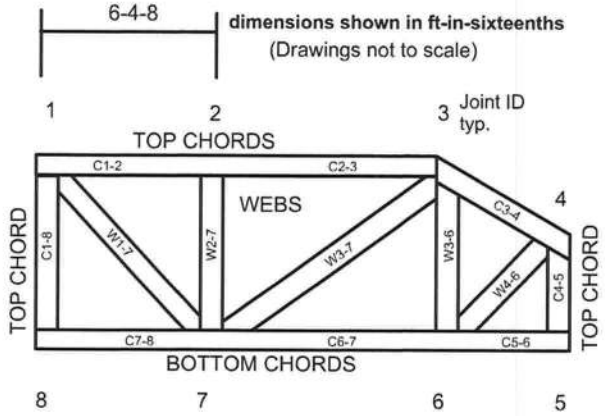


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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®

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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Residential System Sizing Calculation

Summary

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd

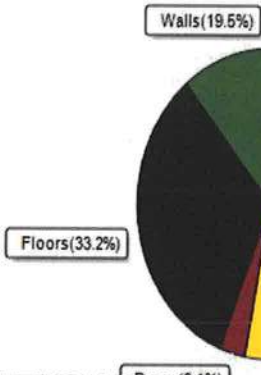
6/22/2023

Location for weather data: Ocala, FL - Defaults: Latitude(29.17) Altitude(89 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)	24	F	Summer design temperature(TMY3 99%)	93	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	46	F	Summer temperature difference	18	F
Total heating load calculation	**27276**	**Btuh**	**Total cooling load calculation**	**18388**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	100.0	27276	Sensible (SHR = 0.70)	106.1	15750
Heat Pump + Auxiliary(0.0kW)	100.0	27276	Latent	190.4	6750
			Total (Electric Heat Pump)	122.4	22500

WINTER CALCULATIONS

Winter Heating Load (for 1549 sqft)

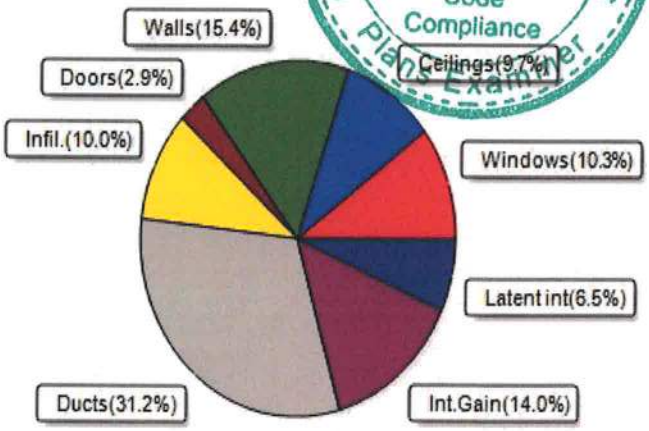
Load component			Load	
Window total	157	sqft	2600	Btuh
Wall total	1303	sqft	5320	Btuh
Door total	40	sqft	846	Btuh
Ceiling total	1626	sqft	1899	Btuh
Floor total	1549	sqft	9054	Btuh
Infiltration	45	cfm	2271	Btuh
Duct loss			5286	Btuh
Subtotal			**27276**	**Btuh**
Ventilation	Ex:0 cfm; Sup:0 cfm		0	Btuh
TOTAL HEAT LOSS			**27276**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1549 sqft)

Load component			Load	
Window total	157	sqft	1903	Btuh
Wall total	1303	sqft	2833	Btuh
Door total	40	sqft	534	Btuh
Ceiling total	1626	sqft	1775	Btuh
Floor total			0	Btuh
Infiltration	34	cfm	667	Btuh
Internal gain			2580	Btuh
Duct gain			4552	Btuh
Sens.Ventilation	Ex:0 cfm; Sup:0 cfm		0	Btuh
Blower Load			0	Btuh
Total sensible gain			**14843**	**Btuh**
Latent gain(ducts)			1177	Btuh
Latent gain(infiltration)			1167	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**3545**	**Btuh**
TOTAL HEAT GAIN			**18388**	**Btuh**



Powered by ACCA MANUAL J

8th Edition

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 6 / 22 / 2023

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd
Building Type: User

6/22/2023

Reference City: Ocala, FL (Defaults) Winter Temperature Difference: 46.0 °F (TMY3 99%)
Winter Setpoint: 70 °F (Required Manual J default)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	S	60.0	16.6	994 Btuh
2	2, NFRC 0.25	Vinyl	0.36	S	30.0	16.6	497 Btuh
3	2, NFRC 0.25	Vinyl	0.36	E	3.0	16.6	50 Btuh
4	2, NFRC 0.25	Vinyl	0.36	N	9.0	16.6	149 Btuh
5	2, NFRC 0.25	TIM	0.36	N	40.0	16.6	662 Btuh
6	2, NFRC 0.25	Vinyl	0.36	N	15.0	16.6	248 Btuh
	Window Total				157.0(sqft)		2600 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	217	4.08	886 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	171	4.08	698 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	229	4.08	935 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	434	4.08	1772 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	252	4.08	1029 Btuh
	Wall Total				1303(sqft)		5320 Btuh
Doors	Type	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.460)		20	21.2	423 Btuh
2	Insulated - Exterior,	n	(0.460)		20	21.2	423 Btuh
	Door Total				40(sqft)		846Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Flat ceil/M/Shing		(0.025)	38.0/0.0	1626	1.2	1899 Btuh
	Ceiling Total				1626(sqft)		1899Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	166.8 ft(perim.)	54.3	9054 Btuh
	Floor Total				1549 sqft		9054 Btuh
					Envelope Subtotal:		19719 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural		0.19	13941	1.00	45.0	2271 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att)					(DLM of 0.240)	5286 Btuh
All Zones				**Sensible Subtotal All Zones**			**27276 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd
Building Type: User

6/22/2023

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) Total Heat Loss	27276 Btuh 0 Btuh 27276 Btuh

EQUIPMENT

1. Electric Heat Pump	#	27276 Btuh

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

Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd

6/22/2023

Reference City: Ocala, FL (Defaults)
Humidity difference: 51gr.

Temperature Difference: 18.0F(TMY3 99%)
Summer Setpoint: 75 °F (Required Manual J default)

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	0.25, 0.36		No	No	S	1.5ft.	1.0ft.	60.0	60.0	0.0	12	14	706 Btuh
2	2 NFRC	0.25, 0.36		No	No	S	7.5ft.	1.0ft.	30.0	30.0	0.0	12	14	353 Btuh
3	2 NFRC	0.25, 0.36		No	No	E	1.0ft.	3.0ft.	3.0	0.0	3.0	12	31	92 Btuh
4	2 NFRC	0.25, 0.36		No	No	N	1.5ft.	1.0ft.	9.0	0.0	9.0	12	12	106 Btuh
5	2 NFRC	0.25, 0.36		No	No	N	1.5ft.	1.0ft.	40.0	0.0	40.0	12	12	470 Btuh
6	2 NFRC	0.25, 0.36		No	No	N	1.5ft.	1.0ft.	15.0	0.0	15.0	12	12	176 Btuh
	Window Total								157 (sqft)					1903 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.09	13.0/0.0	217.0	2.2	472 Btuh
2	Frame - Wood - Ext	0.09	13.0/0.0	171.0	2.2	372 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.0	229.0	2.2	498 Btuh
4	Frame - Wood - Ext	0.09	13.0/0.0	434.0	2.2	944 Btuh
5	Frame - Wood - Ext	0.09	13.0/0.0	252.0	2.2	548 Btuh
	Wall Total			1303 (sqft)		2833 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	13.3	267 Btuh
2	Insulated - Exterior	20.0	13.3	267 Btuh
	Door Total	40 (sqft)		534 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/Med/Shingle/RB	0.025	38.0/0.0	1626.4	1.09	1775 Btuh
	Ceiling Total			1626 (sqft)		1775 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	1549 (ft-perimeter)	0.0	0 Btuh
	Floor Total		1549.0 (sqft)		0 Btuh

	Envelope Subtotal:	7045 Btuh

	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
Infiltration	Natural	0.15	13941	1	33.8	667 Btuh

		Occupants		Btuh/occupant		Appliance	Load
Internal gain		6	X	230	+	1200	2580 Btuh
	Sensible Envelope Load:						10292 Btuh
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)			(DGM of 0.442)			4552 Btuh
	Sensible Load All Zones						**14843 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd

Climate:FL_OCALA_MUNI_(AWOS)

6/22/2023

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**10292 Btuh**
	Sensible Duct Load	4552 Btuh
	Total Sensible Zone Loads	**14843 Btuh**
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**14843 Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	1167 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1177 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3545 Btuh**
	TOTAL GAIN	**18388 Btuh**

EQUIPMENT

1. Central Unit	#	22500 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)

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Version 8

FORM R405-2023

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Kyshia Byrd	Builder Name:	
Street:	122 SW Amiel Court	Permit Office:	Columbia County
City, State, Zip:	Ft White, FL, 32038	Permit Number:	
Owner:	Kyshia Byrd	Jurisdiction:	
Design Location:	FL, Ocala	County:	Columbia(Florida Climate Zone 2)

1. New construction or existing			New (From Plans)
2. Single family or multiple family			Detached
3. Number of units, if multiple family			1
4. Number of Bedrooms			3
5. Is this a worst case?			No
6. Conditioned floor area above grade (ft²)			1549
Conditioned floor area below grade (ft²)			0
7. Windows(157.0 sqft.)	Description		Area
a. U-Factor:	Dbl, U=0.36		157.00 ft²
SHGC:	SHGC=0.25		
b. U-Factor:	N/A		ft²
SHGC:			
c. U-Factor:	N/A		ft²
SHGC:			
Area Weighted Average Overhang Depth:			2.637 ft
Area Weighted Average SHGC:			0.250
8. Skylights	Description		Area
U-Factor:(AVG)	N/A		N/A ft²
SHGC(AVG):	N/A		
9. Floor Types		Insulation	Area
a. Slab-On-Grade Edge Insulation		R= 0.0	1549.00 ft²
b. N/A		R=	ft²
c. N/A		R=	ft²

10. Wall Types(1500.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1500.00 ft²
b. N/A		
c. N/A		
d. N/A		
11. Ceiling Types(1626.4 sqft.)	Insulation	Area
a. Flat ceiling under att (Vented)	R=38.0	1626.40 ft²
b. N/A		
c. N/A		
12. Roof(Comp. Shingles, Vented)	Deck R=0.0	1732 ft²
13. Ducts, location & insulation level	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	387
b.		
c.		
14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	22.5	SEER2:15.50
15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	27.3	HSPF2:8.80
16. Hot Water Systems		
a. Electric		Cap: 40 gallons
		EF: 0.920
b. Conservation features		None
17. Credits		CV, Pstat

Glass/Floor Area: 0.101 Total Proposed Modified Loads: 39.03

Total Baseline Loads: 41.64

PASS

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

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

PREPARED BY: Will C Fry

DATE: 01 / 31 / 2024

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.

Columbia County Building Department Reviewed for File Copy Code Compliance Plans Examiner

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.

- 1 of the 1 duct systems requires a Duct Leakage Test Report. Systems with Default duct leakage do not require this report.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Kyshia Byrd			Address type:	Street Address
Building Type:	User	Bedrooms:	3	Lot #:	---
Owner:	Kyshia Byrd	Conditioned Area:	1549	Block/SubDivision:	---
Builder Home ID:		Total Stories:	1	PlatBook:	---
Builder Name:		Worst Case:	No	Street:	122 SW Amiel Court
Permit Office:	Columbia County	Rotate Angle:	0	County:	Columbia
Jurisdiction:		Cross Ventilation:	Yes	City, State, Zip:	Ft White, FL, 32038
Family Type:	Detached	Whole House Fan:	No		
New/Existing:	New (From Plans)	Terrain:	Suburban		
Year Construct:	2024	Shielding:	Suburban		
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, Ocala	FL_OCALA_MUNI_(AWOS)	28	91	70	75	1144.5	51	Medium

BLOCKS

✓	Number	Name	Area	Volume
___	1	Block1	1549	13941 cu ft

SPACES

✓	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___	1	Main	1549	13941	Yes	6	3	Yes	Yes	Yes

FLOORS (Total Exposed Area = 1549 sq.ft.)

✓	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	R-Value Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___	1	Slab-On-Grade Edge Ins	Main	166.8	1549 sqft	0	---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___	1	Gable or shed	Composition shingles	1732 ft²	388 ft²	Medium	Y	0.96	No	0.9	No	0	26.57

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___	1	Full attic	Vented	300	1549 ft²	Y	N

CEILING (Total Exposed Area = 1626 sq.ft.)

✓	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___	1	Flat ceiling under attic(Vented)	Main	38.0	Double Batt	1626.4ft²	0.024	0.11	Wood

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1500 sq.ft.)

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___	1	S	Exterior	Frame - Wood	Main	13.0	33.0	0	9.0	0	297.0	0.084		0.23	0.75	0 %
___	2	S	Exterior	Frame - Wood	Main	13.0	22.0	4	9.0	0	201.0	0.084		0.23	0.75	0 %
___	3	E	Exterior	Frame - Wood	Main	13.0	28.0	0	9.0	0	252.0	0.084		0.23	0.75	0 %
___	4	N	Exterior	Frame - Wood	Main	13.0	55.0	4	9.0	0	498.0	0.084		0.23	0.75	0 %
___	5	W	Exterior	Frame - Wood	Main	13.0	28.0	0	9.0	0	252.0	0.084		0.23	0.75	0 %

DOORS (Total Exposed Area = 40 sq.ft.)

√	#	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___	1	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²
___	2	E	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²

WINDOWS (Total Exposed Area = 157 sq.ft.)

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen
___	1	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	60.0	4	3.00	5.00	1.5	1.0	None	None
___	2	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	7.5	1.0	None	None
___	3	E	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.0	1	3.00	1.00	1.0	3.0	None	None
___	4	N	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.5	1.0	None	None
___	5	N	4	TIM	Low-E Double	Y	0.36	0.25	N	N	40.0	2	3.00	6.67	1.5	1.0	None	None
___	6	N	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None

INFILTRATION

√	#	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___	1	Wholehouse	Proposed ACH(50)	0.00040	1626	89.23	167.52	0.1211	7.0	All	13941 cu ft

MASS

√	#	Mass Type	Area	Thickness	Furniture Fraction	Space
___	1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

HEATING SYSTEM

√	#	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump---- Entry	Power	Volt	Current	Ducts	Block
___	1	Electric Heat Pump	None/Single		HSPF2: 8.80	27.3		0.00	0.00	0.00	sys#1	1

COOLING SYSTEM

√	#	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___	1	Central Unit	None/Single		SEER2:15.5	22.5	720	0.70	sys#1	1

FORM R405-2023

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___	1	Electric	None	Main	0.92 (0.92)	40.00 gal	40 gal	120 deg	Standard	None	12

	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

✓	Duct #	Supply Location	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat	HVAC # Cool
___	1	Attic	6.0	387 ft²	Attic	6.0	77 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y Ceiling Fans: N

	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	78	78	78	78	78	78	78	78	78	78
___	Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
		PM	78	78	78	78	78	78	78	78	78	78	78	78
___	Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
		PM	68	68	68	68	68	68	68	68	68	68	66	66
___	Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
		PM	68	68	68	68	68	68	68	68	68	68	66	66

FORM R405-2023

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 94

The lower the EnergyPerformance Index, the more efficient the home.

122 SW Amiel Court,Ft White,FL,32038

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Detached
3. Number of units, if multiple family		1
4. Number of Bedrooms		3
5. Is this a worst case?		No
6. Conditioned floor area above grade (ft²)		1549
Conditioned floor area below grade (ft²)		0
7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.36	157.00 ft²
SHGC:	SHGC=0.25	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		2.637 ft
Area Weighted Average SHGC:		0.250
8. Skylights	Description	Area
U-Factor:(AVG)	N/A	N/A ft²
SHGC(AVG):	N/A	

9. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R= 0.0	1549.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(1500.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1500.00 ft²
b. N/A		
c. N/A		
d. N/A		

11. Ceiling Types(1626.4 sqft.)	Insulation	Area
a. Flat ceiling under att (Vented)	R=38.0	1626.40 ft²
b. N/A		
c. N/A		

12. Roof(Comp. Shingles, Vented)	Deck R=0.0	1732 ft²
13. Ducts, location & insulation level	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	387
b.		
c.		

14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	22.5	SEER2:15.50

15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	27.3	HSPF2:8.80

16. Hot Water Systems	
a. Electric	Cap: 40 gallons
	EF: 0.920
b. Conservation features	None
17. Credits	CV, Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction 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: 122 SW Amiel Court City/FL Zip: Ft White,FL,32038

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

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

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:

Job Information

Builder: Community: Lot: NA

Address: 122 SW Amiel Court

City: Ft White State: FL Zip: 32038

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

○ **PRESCRIPTIVE METHOD-**The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

● **PERFORMANCE or ERI METHOD-**The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2023 (Performance) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50.

ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 7.000

_____ x 60 ÷ 13941 = _____
CFM(50) Building Volume ACH(50)

☐ **PASS**

☐ When ACH(50) is less than 3, Mechanical Ventilation installation 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. 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. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the *Florida Building Code, Residential*. 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 Statues*, 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*.

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, back draft 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.
7. If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Residential System Sizing Calculation

Summary

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd

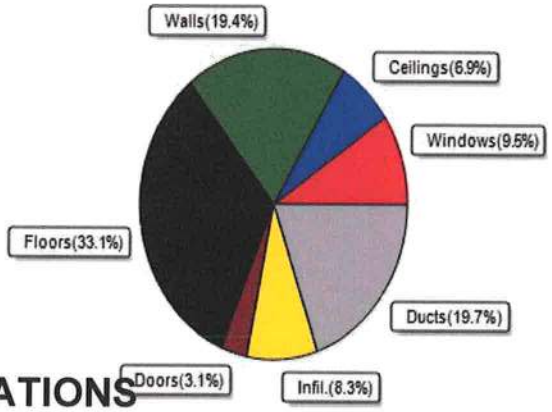
1/31/2024

Location for weather data: Ocala, FL - Defaults: Latitude(29.17) Altitude(89 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(41gr.)					
Winter design temperature(MJ8 99%/Cu)	34	F	Summer design temperature(MJ8 99%/Cu)	99	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	36	F	Summer temperature difference	24	F
Total heating load calculation	**21425**	**Btuh**	**Total cooling load calculation**	**20033**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	127.3	27276	Sensible (SHR = 0.70)	93.1	15750
Heat Pump + Auxiliary(0.0kW)	127.3	27276	Latent	216.7	6750
			Total (Electric Heat Pump)	112.3	22500

WINTER CALCULATIONS

Winter Heating Load (for 1549 sqft)

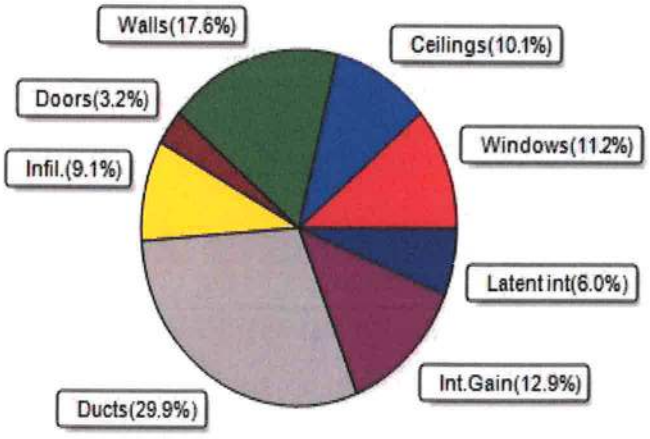
Load component			Load	
Window total	157	sqft	2035	Btuh
Wall total	1303	sqft	4163	Btuh
Door total	40	sqft	662	Btuh
Ceiling total	1626	sqft	1486	Btuh
Floor total	1549	sqft	7086	Btuh
Infiltration	45	cfm	1777	Btuh
Duct loss			4215	Btuh
Subtotal			**21425**	**Btuh**
Ventilation	Ex:0 cfm; Sup:0 cfm		0	Btuh
TOTAL HEAT LOSS			**21425**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1549 sqft)

Load component			Load	
Window total	157	sqft	2242	Btuh
Wall total	1303	sqft	3527	Btuh
Door total	40	sqft	644	Btuh
Ceiling total	1626	sqft	2023	Btuh
Floor total			0	Btuh
Infiltration	34	cfm	889	Btuh
Internal gain			2580	Btuh
Duct gain			5013	Btuh
Sens.Ventilation	Ex:0 cfm; Sup:0 cfm		0	Btuh
Blower Load			0	Btuh
Total sensible gain			**16918**	**Btuh**
Latent gain(ducts)			977	Btuh
Latent gain(infiltration)			939	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**3115**	**Btuh**
TOTAL HEAT GAIN			**20033**	**Btuh**



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EnergyGauge® System Sizing
PREPARED BY: Will C Ty
DATE: 01 / 31 / 2024

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd
Building Type: User

1/31/2024

Reference City: Ocala, FL (Defaults) Winter Temperature Difference: 36.0 °F (MJ8 99%/Cu)
Winter Setpoint: 70 °F (Required Manual J default)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	S	60.0	13.0	778 Btuh
2	2, NFRC 0.25	Vinyl	0.36	S	30.0	13.0	389 Btuh
3	2, NFRC 0.25	Vinyl	0.36	E	3.0	13.0	39 Btuh
4	2, NFRC 0.25	Vinyl	0.36	N	9.0	13.0	117 Btuh
5	2, NFRC 0.25	TIM	0.36	N	40.0	13.0	518 Btuh
6	2, NFRC 0.25	Vinyl	0.36	N	15.0	13.0	194 Btuh
	Window Total				157.0(sqft)		2035 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	217	3.20	693 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	171	3.20	546 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	229	3.20	732 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	434	3.20	1387 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	252	3.20	805 Btuh
	Wall Total				1303(sqft)		4163 Btuh
Doors	Type	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.460)		20	16.6	331 Btuh
2	Insulated - Exterior,	n	(0.460)		20	16.6	331 Btuh
	Door Total				40(sqft)		662Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Flat ceil/D/Shing		(0.025)	38.0/0.0	1626	0.91	1486 Btuh
	Ceiling Total				1626(sqft)		1486Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	166.8 ft(perim.)	42.5	7086 Btuh
	Floor Total				1549 sqft		7086 Btuh
					Envelope Subtotal:		15432 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural		0.19	13941	1.00	45.0	1777 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att)					(DLM of 0.245)	4215 Btuh
All Zones				**Sensible Subtotal All Zones**			**21425 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd
Building Type: User

1/31/2024

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) Total Heat Loss	21425 Btuh 0 Btuh 21425 Btuh

EQUIPMENT

1. Electric Heat Pump	#	27276 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)

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System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd

1/31/2024

Reference City: Ocala, FL (Defaults)
Humidity difference: 41gr.

Temperature Difference: 24.0F(MJ8 99%/Cu)
Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Whole House

	Type*						Overhang		Window Area(sqft)			HTM		Load
Window	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2 NFRC	0.25,	0.36	No	No	S	1.5ft.	1.0ft.	60.0	60.0	0.0	14	16	835 Btuh
2	2 NFRC	0.25,	0.36	No	No	S	7.5ft.	1.0ft.	30.0	30.0	0.0	14	16	418 Btuh
3	2 NFRC	0.25,	0.36	No	No	E	1.0ft.	3.0ft.	3.0	0.0	3.0	14	33	98 Btuh
4	2 NFRC	0.25,	0.36	No	No	N	1.5ft.	1.0ft.	9.0	0.0	9.0	14	14	125 Btuh
5	2 NFRC	0.25,	0.36	No	No	N	1.5ft.	1.0ft.	40.0	0.0	40.0	14	14	557 Btuh
6	2 NFRC	0.25,	0.36	No	No	N	1.5ft.	1.0ft.	15.0	0.0	15.0	14	14	209 Btuh
	Window Total								157 (sqft)					2242 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.09	13.0/0.0	217.0	2.7	587 Btuh
2	Frame - Wood - Ext	0.09	13.0/0.0	171.0	2.7	463 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.0	229.0	2.7	620 Btuh
4	Frame - Wood - Ext	0.09	13.0/0.0	434.0	2.7	1175 Btuh
5	Frame - Wood - Ext	0.09	13.0/0.0	252.0	2.7	682 Btuh
	Wall Total			1303 (sqft)		3527 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	16.1	322 Btuh
2	Insulated - Exterior	20.0	16.1	322 Btuh
	Door Total	40 (sqft)		644 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle/RB	0.025	38.0/0.0	1626.4	1.24	2023 Btuh
	Ceiling Total			1626 (sqft)		2023 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	1549 (ft-perimeter)	0.0	0 Btuh
	Floor Total		1549.0 (sqft)		0 Btuh
			Envelope Subtotal:		8436 Btuh

Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.15	13941	1	33.8	889 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		6	X 230	+	1200	2580 Btuh
				Sensible Envelope Load:		11905 Btuh
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)			(DGM of 0.421)		5013 Btuh
				Sensible Load All Zones		**16918 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Kyshia Byrd
122 SW Amiel Court
Ft White, FL 32038

Project Title:
Kyshia Byrd

Climate:FL_OCALA_MUNI_(AWOS)

1/31/2024

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**11905 Btuh**
	Sensible Duct Load	5013 Btuh
	Total Sensible Zone Loads	**16918 Btuh**
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**16918 Btuh**
	Latent infiltration gain (for 41 gr. humidity difference)	939 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	977 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3115 Btuh**
	TOTAL GAIN	**20033 Btuh**

EQUIPMENT

1. Central Unit	#	22500 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)

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