198

Columbia County New Building Permit Application

For Office Use Only Application # 44577 Date Received 2/21 By MG Permit # 39495/39496
Zoning Official LW/LH Date 2-26-20 Flood Zone X Land Use Ag Zoning PRRD
FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner TE Date 3-19-20
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. 20-0191 OR City Water ☐ Fax _____
Applicant (Who will sign/pickup the permit) ADAM PAPKA - JOHN GRIM Phone 386-623-2383
Address Po Box 1921 Lake City FL 32056
Owners Name BETH JAMES Phone 850-570-2225
911 Address 522 SW Mossy Oak Way Lake City, FL 32024
Contractors Name ADAM PAPKA Phone 386-623-2383
Address Po Box 1921, Lake City FL 32056
Contractor Email adam@adamsconstructiongroup.com ***Include to get updates on this job.
Fee Simple Owner Name & Address _____
Bonding Co. Name & Address NA
Architect/Engineer Name & Address Nicholas Geisler
Mortgage Lenders Name & Address First Federal
Circle the correct power company ☐ FL Power & Light ☒ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy
Property ID Number 25-3S-15-00220-111 Estimated Construction Cost 350,000
Subdivision Name HUNTERS RIDGE Lot 11 Block ____ Unit ____ Phase ____
Driving Directions from a Major Road HWY 90 HEAD WEST PAST RUSSELL'S WESTERN STORE, Turn (L) onto SW MAYO Rd, then (L) onto Mossy oak way go to culdesac, house is at end
Construction of New home ____ Commercial OR X Residential
Proposed Use/Occupancy Single Fam. Number of Existing Dwellings on Property ____
Is the Building Fire Sprinkled? No If Yes, blueprints included ____ Or Explain _____
Circle Proposed ☒ Culvert Permit or ☐ Culvert Waiver or ☐ D.O.T. Permit or ☐ Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 108' Side (L) 97' Side (R) 122 Rear 265'
Number of Stories 1 Heated Floor Area 3058 Total Floor Area 4183 Acreage 7.43 acres
Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____

Columbia County Building Permit Application

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

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

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

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

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

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

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

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

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

Beryl L. James — **Print Owners Name**

Beryl L. James — **Owners Signature**

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

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

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

Contractor's Signature

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

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

Personally known ___ **or Produced Identification** FSL

State of Florida Notary Signature (For the Contractor)

SEAL:

MELISSA GARBER
MY COMMISSION # GG 952236
EXPIRES: January 28, 2024
Bonded Thru Notary Public Underwriters

Legend

Parcels

Roads

Roads
others
Dirt
Interstate
Main
Other
Paved
Private

2018 Flood Zones

0.2 PCT ANNUAL CHANCE
A
AE
AH

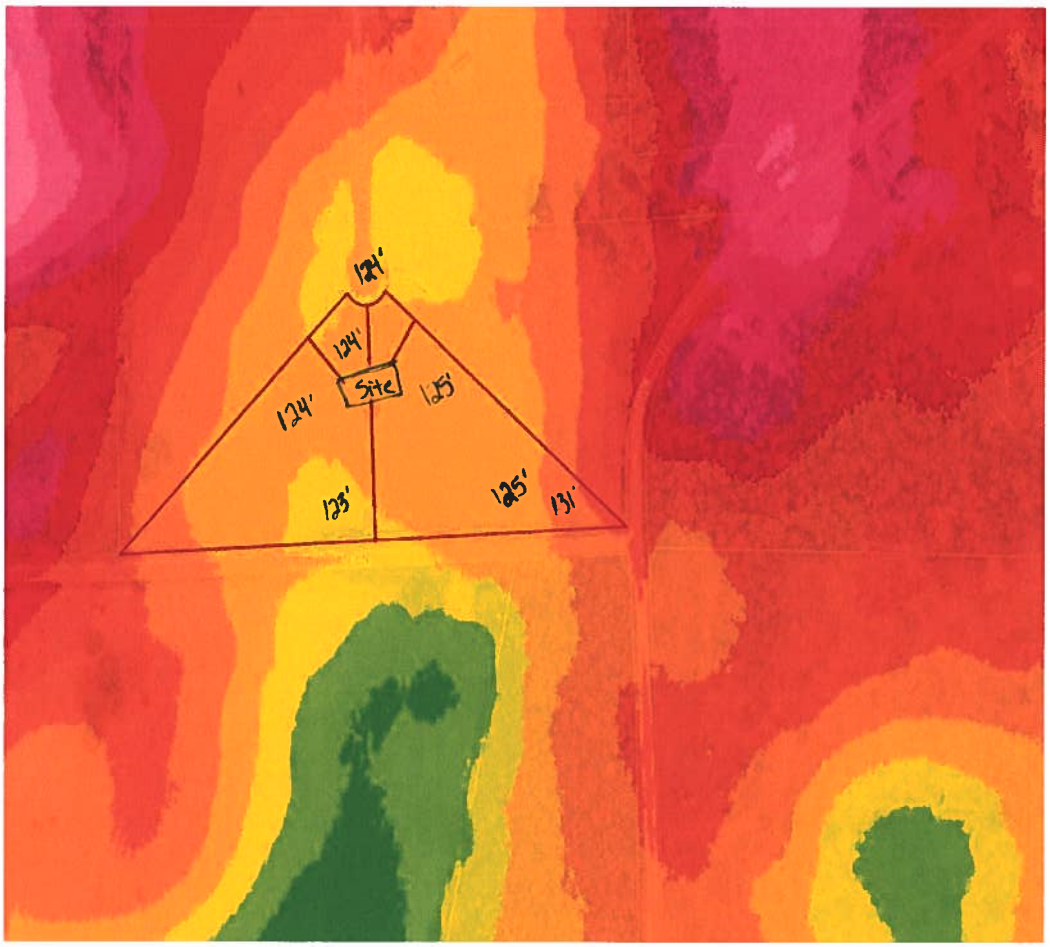
SRWMD Wetlands

2018Aerials

LidarElevations

Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Feb 26 2020 10:37:54 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 25-3S-15-00220-111

Owner: JAMES BERYL L

Subdivision: HUNTER'S RIDGE

Lot: 11

Acres: 7.45380831

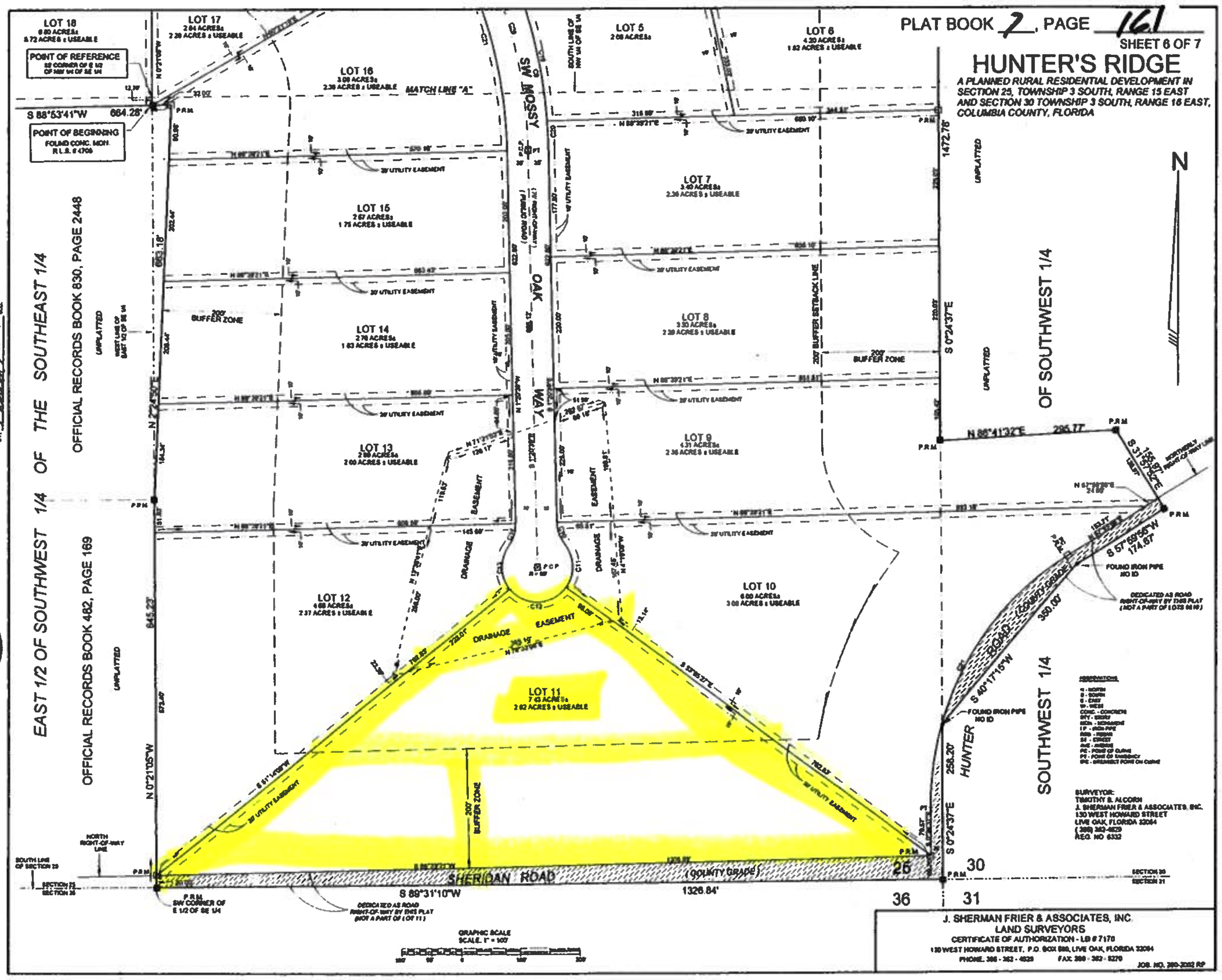
Deed Acres: 7.43 Ac

District: District 2 Rocky Ford

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3, PRRD


PLAT BOOK 2, PAGE 161
SHEET 6 OF 7
HUNTER'S RIDGE
A PLANNED RURAL RESIDENTIAL DEVELOPMENT IN SECTION 25, TOWNSHIP 3 SOUTH, RANGE 15 EAST AND SECTION 30 TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA
POINT OF REFERENCE
POINT OF BEGINNING
S 88°53'41"W 664.28'
MATCH LINE "A"
SW MOSSY OAK WAY
LOT 5
LOT 6
LOT 7
LOT 8
LOT 9
LOT 10
LOT 11
LOT 12
LOT 13
LOT 14
LOT 15
LOT 16
LOT 17
LOT 18
EAST 1/2 OF SOUTHWEST 1/4 OF THE SOUTHEAST 1/4
OFFICIAL RECORDS BOOK 830, PAGE 2448
OFFICIAL RECORDS BOOK 482, PAGE 169
OF SOUTHWEST 1/4
SOUTHWEST 1/4
UNPLATTED
N 0°21'05"W
S 0°24'37"E
N 88°41'32"E 295.77'
S 57°59'55"W 174.67'
S 40°17'15"W
1472.76'
HUNTER ROAD (COUNTY GRADE)
SHERIDAN ROAD (COUNTY GRADE)
S 89°31'10"W 1326.84'
200' BUFFER ZONE
DRAINAGE EASEMENT
20' UTILITY EASEMENT
N
25
30
36
31
SURVEYOR:
TIMOTHY B. ALCORN
J. SHERMAN FRIER & ASSOCIATES, INC.
130 WEST HOWARD STREET
LIVE OAK, FLORIDA 32064
REG. NO 6332
J. SHERMAN FRIER & ASSOCIATES, INC.
LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION - LB # 7170
130 WEST HOWARD STREET, P.O. BOX 580, LIVE OAK, FLORIDA 32064
GRAPHIC SCALE
SCALE: 1" = 100'

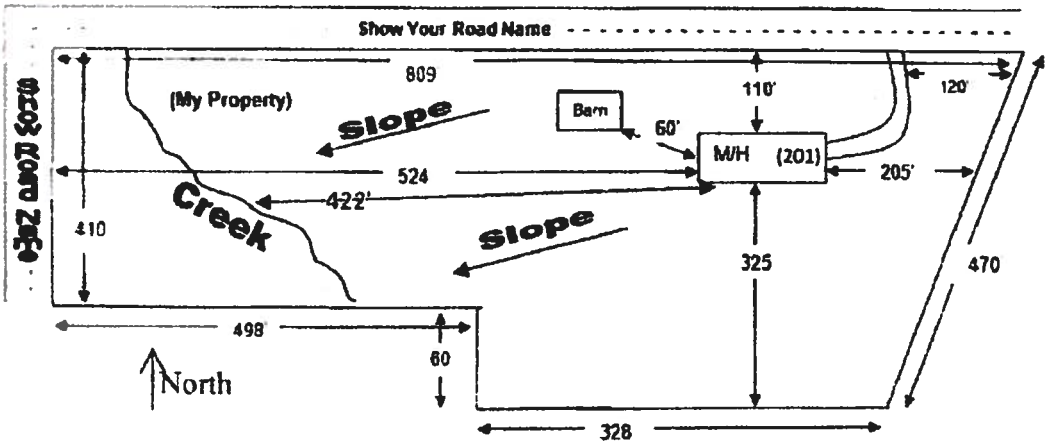
SITE PLAN CHECKLIST

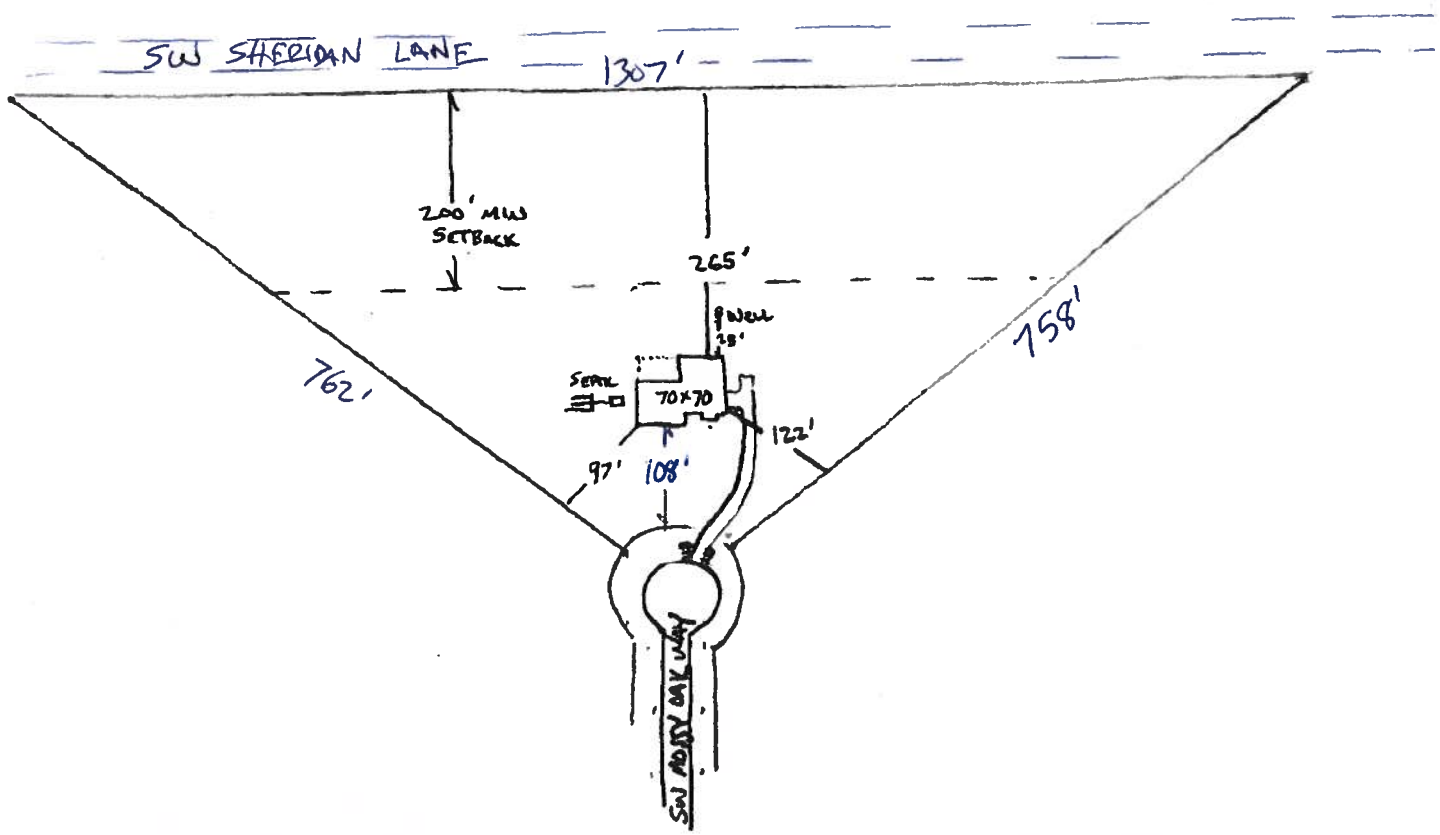
___1) Property Dimensions
___2) Footprint of proposed and existing structures (including decks), label these with existing addresses
___3) Distance from structures to all property lines
___4) Location and size of easements
___5) Driveway path and distance at the entrance to the nearest property line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

SITE PLAN EXAMPLE

Revised 7/1/15

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





This Document Prepared By:
Name: Amy Ratliff
Title: Closer
First Federal Bank
4705 US Hwy 90 West
Lake City, FL 32055

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: **See Exhibit A**

2. General Description of Improvement: **Construction of Residential Single Family Home**

3. Owner Information:
   Name and Address: **Beryl L James**
   5622 Sullivan Rd, Tallahassee, FL 32310
   Interest in property: [X] Fee Simple
   Name and address of fee simple title holder (if other than Owner): [ ]

4. Contractor (name and address): **Adams Construction, LLC**
   P.O. Box 1921, Lake City, FL 32056

5. Surety:

6. Lender **First Federal Bank**
   4705 US Hwy 90 West
   Lake City, FL 32055
   (877) 499-0572

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

8. In addition to himself, Owner designates **First Federal Bank**, 4705 West Hwy 90/P.O. Box 2029, Lake City Florida 32056 to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statues.

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 1, 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 OF RECORDING YOUR NOTICE OF COMMENCEMENT.

Beryl L. James (Seal)
Borrower - **Beryl L James**

State of Florida

County of Columbia

The foregoing instrument was acknowledged before me by means of [X] physical presence or [ ] online notarization, this 10 day of Feb, 2020
by Beryl L. James.

(Signature of Notary Public - State of Florida)

(Print, Type or Stamp Commissioned Name of Notary Public)

Michael H. Harrell
NOTARY PUBLIC
STATE OF FLORIDA
Comm# GG095249
Expires 4/18/2021

Personally Known _____ OR Produced Identification DL

Type of Identification Produced _____

Verification Pursuant to Section 92.525, Florida Statutes

Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Beryl L. James 2/10/2020
Borrower - **Beryl L James** Date

ATT 9239

Exhibit "A"

Lot 11, Hunter's Ridge, according to the map or plat thereof, as recorded in Plat Book 7, Page(s) 156 through 162, of the Public Records of Columbia County, Florida.

Prepared by:
Michael H. Harrell
Abstract & Title Services, Inc.
111 East Howard Street
Live Oak, Florida 32064

Warranty Deed

Individual to Individual

THIS WARRANTY DEED made the 3rd day of ~~November,~~ December 2019, By George W. James, A Single Person, hereinafter called the grantor, to Beryl L. James, whose post office address is: 283 NW Cole Terrace, Lake City, FL 32055 hereinafter called the grantee:

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporation)

Witnesseth: That the grantor, for and in consideration of the sum of $10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys, and confirms unto the grantee, all that certain land situate in COLUMBIA County, Florida.

Lot 11, Hunter's Ridge, a subdivision according to the plat thereof recorded in Plat Book 7, Pages 156-162, Public Records of Columbia County, Florida.

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

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

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

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

Signed, sealed and delivered in our presence:

Witness:
Printed Name: Sheri Corbett

George W. James

Witness:
Printed Name: Tawainga Katsvairo

STATE OF FL

COUNTY OF Leon

The foregoing instrument was acknowledged before me this 3 day of ~~November,~~ December JP AMN 2019 by GEORGE W. JAMES, A SINGLE PERSON, personally known to me or, if not personally known to me, who produced FL DL for identification and who did not take an oath.

Notary Public

(Seal)

JACOB PETERS
Notary Public, State of Florida
Commission# GG 349139
My comm. expires June 26, 2023

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

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

PERMIT NO. 22-0191
DATE PAID: 3/9/20
FEE PAID: 310.55
RECEIPT #: 4722285

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

APPLICANT: Beryl James

AGENT: Robert W Ford JR N. Fl. Septic Tank TELEPHONE: (386) 755-6372

MAILING ADDRESS: 7418 SE State Road 100 Lake City Fl 32025

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

PROPERTY INFORMATION

LOT: 11 BLOCK: - SUBDIVISION: Hunters Ridge PLATTED: _____

PROPERTY ID #: 25-3S-15-00220-111 ZONING: SF I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: 7.43 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

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

PROPERTY ADDRESS: TBD

DIRECTIONS TO PROPERTY: Hwy 90 west to Mayo Rd TL Follow to Hunters Ridge TL Follow to End drive on to Property

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	New Home	3	3058	
2				
3				
4				

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

SIGNATURE: Robert W. Ford Jr DATE: 3/2/2020

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

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

PERMIT #: 12-SC-2046058
APPLICATION #: AP1472285
DATE PAID: 3/9/20
FEE PAID: 310.00
RECEIPT #:
DOCUMENT #: PR1318406

CONSTRUCTION PERMIT FOR: OSTDS New

APPLICANT: BERYLE**20-0191 JAMES

PROPERTY ADDRESS: HUNTERS Lake City, FL 32024

LOT: 11 BLOCK: SUBDIVISION: HUNTERS RIDGE

PROPERTY ID #: 00220-111 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER] [OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.

SYSTEM DESIGN AND SPECIFICATIONS

T [1,050] GALLONS / GPD New Septic CAPACITY
A [ ] GALLONS / GPD N/A CAPACITY
N [ ] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK:1250 GALLONS]
K [ ] GALLONS DOSING TANK CAPACITY [ ]GALLONS @[ ]DOSES PER 24 HRS #Pumps [ ]

D [500] SQUARE FEET Drainfield SYSTEM
R [ ] SQUARE FEET N/A SYSTEM
A TYPE SYSTEM: [x] STANDARD [ ] FILLED [ ] MOUND [ ]
I CONFIGURATION: [x] TRENCH [ ] BED [ ]
N
F LOCATION OF BENCHMARK: Power pole N of site.
I ELEVATION OF PROPOSED SYSTEM SITE [24.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [54.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [ ] INCHES

O T H E R: The system is sized for 3 bedrooms with a maximum occupancy of 6 persons (2 per bedroom), for a total estimated flow of 400 gpd.

SPECIFICATIONS BY: Robert W Ford TITLE: M. Env.

APPROVED BY: Steven F Krupka TITLE: Environmental Specialist I Columbia CHD

DATE ISSUED: 03/16/2020 EXPIRATION DATE: 09/16/2021

DH 4016, 08/09 (Obsoletes all previous editions which may not be used)
Incorporated: 64E-6.003, FAC

v 1.1.4 AP1472285 SE1267461

NOTICE OF RIGHTS

A party whose substantial interest is affected by this order may petition for an administrative hearing pursuant to sections 120.569 and 120.57, Florida Statutes. Such proceedings are governed by Rule 28-106, Florida Administrative Code. A petition for administrative hearing must be in writing and must be received by the Agency Clerk for the Department, within twenty-one (21) days from the receipt of this order. The address of the Agency Clerk is 4052 Bald Cypress Way, BIN A-02, Tallahassee, Florida 32399. The Agency Clerk's facsimile number is 850-413-8743.

Mediation is not available as an alternative remedy.

Your failure to submit a petition for hearing within 21 days from receipt of this order will constitute a waiver of your right to an administrative hearing, and this order shall become a 'final order'.

Should this order become a final order, a party who is adversely affected by it is entitled to judicial review pursuant to Section 120.68, Florida Statutes. Review proceedings are governed by the Florida Rules of Appellate Procedure. Such proceedings may be commenced by filing one copy of a Notice of Appeal with the Agency Clerk of the Department of Health and a second copy, accompanied by the filing fees required by law, with the Court of Appeal in the appropriate District Court. The notice must be filed within 30 days of rendition of the final order.

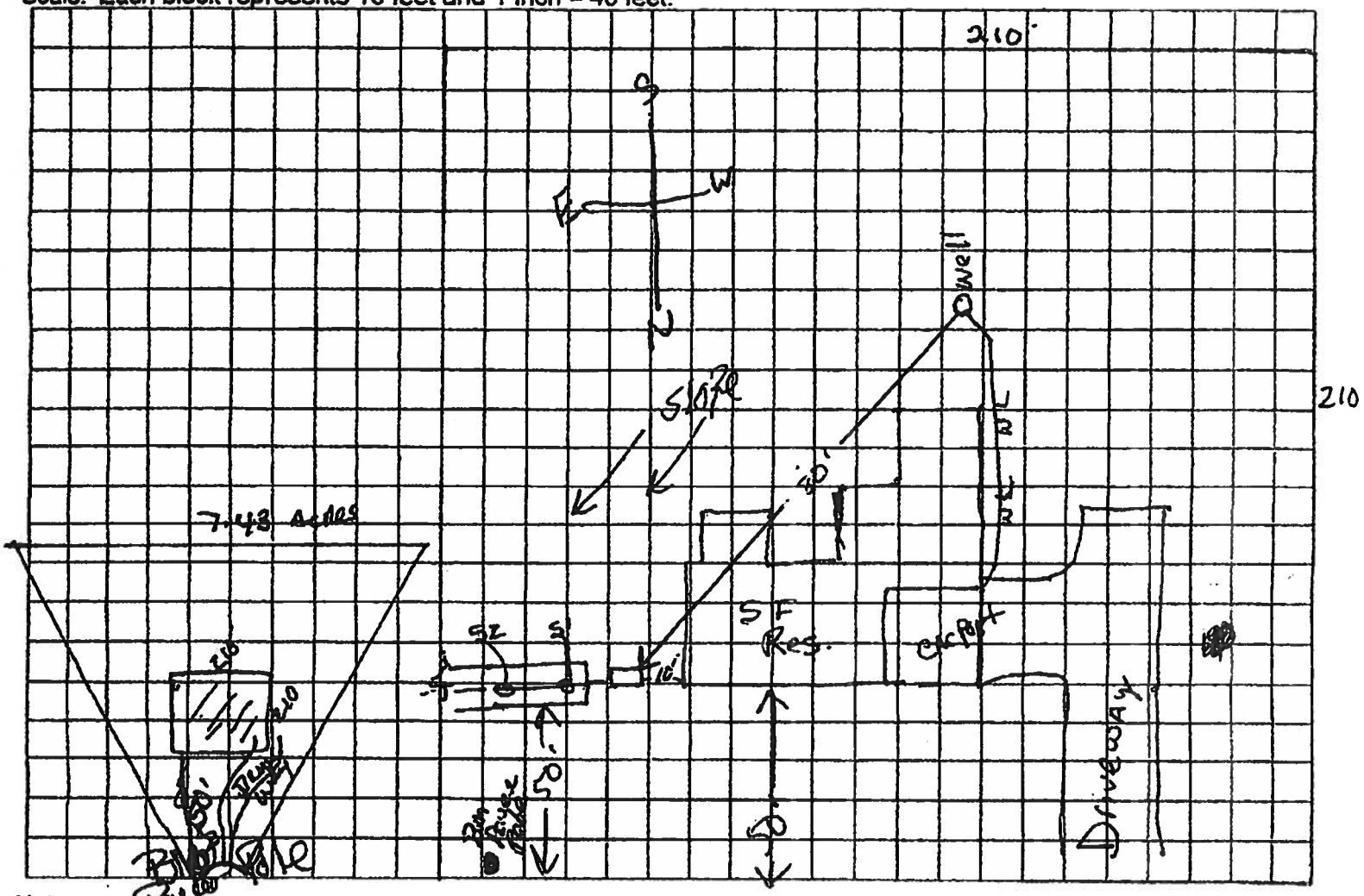
STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 20-0191

---------- PART II - SITEPLAN ----------

1 Acre of 7.43 Acres

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: _____

Site Plan submitted by: Robert W Ford, Jr. DATE _____

Plan Approved ✓ Not Approved ____ Date 3/16/20

By _____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Columbia County Property Appraiser

Jeff Hampton

2020 Working Values
updated: 2/11/2020

Parcel: << 25-3S-15-00220-111 >>

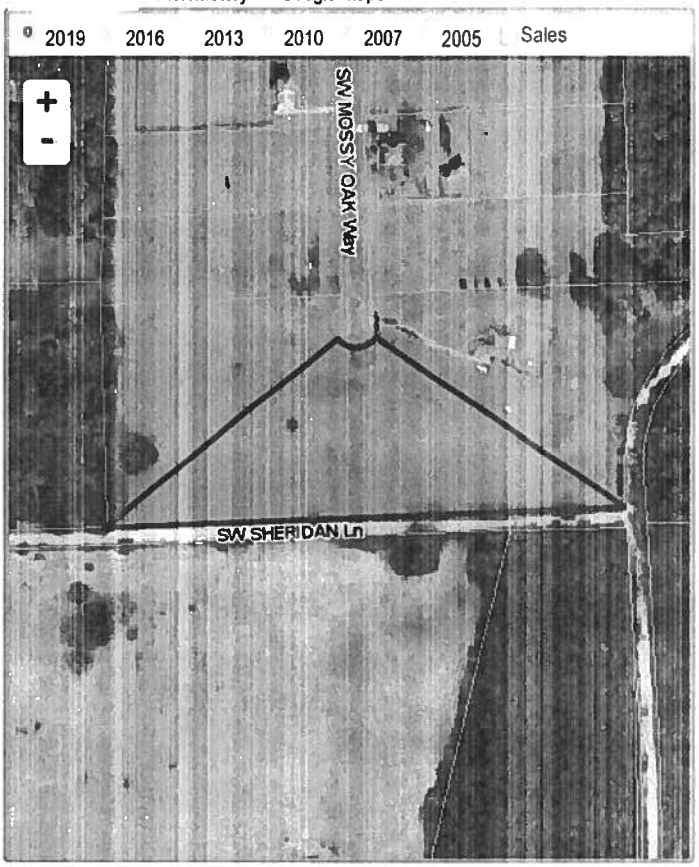
Owner & Property Info

Result: 1 of 1

Owner	JAMES BERYL L 283 NW COLE TER LAKE CITY, FL 32055		
Site	,		
Description*	LOT 11 HUNTER'S RIDGE S/D WD 1052-1189, WD 1401-1034,		
Area	7.43 AC	S/T/R	25-3S-15E
Use Code**	VACANT (000000)	Tax District	3

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

Aerial Viewer Pictometery Google Maps



Property & Assessment Values

2019 Certified Values		2020 Working Values	
Mkt Land (1)	$71,212	Mkt Land (1)	$71,212
Ag Land (0)	$0	Ag Land (0)	$0
Building (0)	$0	Building (0)	$0
XFOB (0)	$0	XFOB (0)	$0
Just	$71,212	Just	$71,212
Class	$0	Class	$0
Appraised	$71,212	Appraised	$71,212
SOH Cap [?]	$0	SOH Cap [?]	$0
Assessed	$71,212	Assessed	$71,212
Exempt	$0	Exempt	$0
Total Taxable	county:$71,212 city:$71,212 other:$71,212 school:$71,212	Total Taxable	county:$71,212 city:$71,212 other:$71,212 school:$71,212

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
12/3/2019	$100	1401/1034	WD	V	U	11
7/15/2005	$148,600	1052/1189	WD	V	Q	

Building Characteristics

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

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
000000	VAC RES (MKT)	7.430 AC	1.00/1.00 1.00/1.00	$9,584	$71,212

Search Result: 1 of 1

by: GrizzlyLogic.com

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

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued:	**2/24/2020 7:11:06 PM**
Address:	**522 SW MOSSY OAK Way**
City:	**LAKE CITY**
State:	**FL**
Zip Code	**32024**
Parcel ID	**00220-111**

REMARKS: Address for proposed structure on parcel.

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

Address Issued By: **Signed:/ Matt Crews**

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT

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

A&B Well Drilling, Inc.

5673 NW Lake Jeffery Road
Lake City, FL 32055
Telephone: (386) 758-3409
Cell: (386) 623-3151
Fax: (386) 758-3410
Owner: Bruce Park

Date 2/24/20

To: Columbia County Building Department

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

Located at Address LOT 11 Hunters Ridge - 25-3S-15-00220-111

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

Bruce Park

Sincerely,
Bruce N. Park
President

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropbox
1	Two (2) complete sets of plans containing the following:	- Yes
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	- Yes
3	Condition space (Sq. Ft.) 2157 Total (Sq. Ft.) under roof 3048	YES / NO / N/A

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

Site Plan information including:

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

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
8	**Plans or specifications must show compliance with FBCR Chapter 3**	YES / NO / N/A
		Select From the Dropbox
9	Basic wind speed (3-second gust), miles per hour	- Yes
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	- Yes
11	Wind importance factor and nature of occupancy	- Yes
12	The applicable internal pressure coefficient, Components and Cladding	- Yes
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	- Yes

Elevations Drawing including:

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

Floor Plan including:

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

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

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

YES / NO / N/A

FBCR 403: Foundation Plans

Select From the Dropbox

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

FBCR 506: CONCRETE SLAB ON GRADE

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

FBCR 318: PROTECTION AGAINST TERMITES

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

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

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

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

Floor Framing System: First and/or second story

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

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

YES / NO / N/A

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

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

FBCR :ROOF SYSTEMS:

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

FBCR 802:Conventional Roof Framing Layout

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

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

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

FBCR Chapter 11 Energy Efficiency Code for residential building

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

YES / NO / N/A

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

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

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

TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. NO

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

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

Section R101.2.1 of the Florida Building Code Residential:

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

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Beryl James	Builder Name:	Adam Construction
Street:		Permit Office:	
City, State, Zip:	Lake City , FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville	County:	Columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	4
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	3058
Conditioned floor area below grade (ft²)	0

7. Windows(392.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.33	392.00 ft²
SHGC:	SHGC=0.22	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		5.051 ft.
Area Weighted Average SHGC:		0.220

8. Floor Types (3058.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2678.00 ft²
b. Floor over Garage	R=0.0	380.00 ft²
c. N/A	R=	ft²

9. Wall Types (2897.8 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	2486.50 ft²
b. Frame - Wood, Adjacent	R=13.0	411.33 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (3058.0 sqft.)	Insulation	Area
a. Roof Deck (Vented)	R=0.0	3058.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Main, Ret: Main, AH: Garage	6	611.6

	kBtu/hr	Efficiency
12. Cooling systems		
a. Central Unit	48.0	SEER:16.00
13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	48.0	HSPF:8.50

14. Hot water systems
a. Electric — Cap: 50 gallons, EF: 0.920

b. Conservation features
None

15. Credits — CF, Pstat

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

Glass/Floor Area: 0.128

Total Proposed Modified Loads: 69.67
Total Baseline Loads: 81.60

PASS

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

PREPARED BY: _____
DATE: 2-14-20

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

OWNER/AGENT: _____
DATE: _____

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

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

BUILDING OFFICIAL: _____
DATE: _____

- **Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.**
- **Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).**
- **Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.**

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Beryl James	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1232	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Adam Construction	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

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

BLOCKS

Number	Name	Area	Volume
1	Block1	3058	27142

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2678	24102	Yes	6	3	1	Yes	Yes	Yes
2	2nd Floor	380	3040	No	2	1	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	307 ft	0	2678 ft²	----	0.33	0.33	0.34
_____	2	Floor over Garage	2nd Floor	----	----	380 ft²	0	0.3	0.7	0

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	3824 ft²	1148 ft²	Medium	N	0.85	No	0.9	No	0	36.9

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Unvented	0	3058 ft²	N	N

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
____	1	Under Attic (Unvented)	Main	30	Blown	2678 ft²	0.11	Wood
____	2	Under Attic (Unvented)	2nd Floor	30	Blown	380 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
____	1	N	Exterior	Frame - Wood	Main	13	12	10	9		115.5 ft²		0.23	0.75	0
____	2	E	Exterior	Frame - Wood	Main	13	11	10	9		106.5 ft²		0.23	0.75	0
____	3	N	Exterior	Frame - Wood	Main	13	17	8	10		176.7 ft²		0.23	0.75	0
____	4	W	Exterior	Frame - Wood	Main	13	16		10		160.0 ft²		0.23	0.75	0
____	5	N	Exterior	Frame - Wood	Main	13	12		10		120.0 ft²		0.23	0.75	0
____	6	W	Exterior	Frame - Wood	Main	13	12		9		108.0 ft²		0.23	0.75	0
____	7	N	Exterior	Frame - Wood	Main	13	24	2	9		217.5 ft²		0.23	0.75	0
____	8	E	Exterior	Frame - Wood	Main	13	30	10	9		277.5 ft²		0.23	0.75	0
____	9	S	Exterior	Frame - Wood	Main	13	8	4	9		75.0 ft²		0.23	0.75	0
____	10	E	Exterior	Frame - Wood	Main	13	5		10		50.0 ft²		0.23	0.75	0
____	11	S	Exterior	Frame - Wood	Main	13	34	6	10		345.0 ft²		0.23	0.75	0
____	12	W	Exterior	Frame - Wood	Main	13	11	8	9		105.0 ft²		0.23	0.75	0
____	13	S	Exterior	Frame - Wood	Main	13	2		9		18.0 ft²		0.23	0.75	0
____	14	W	Exterior	Frame - Wood	Main	13	23		9		207.0 ft²		0.23	0.75	0
____	15	N	Exterior	Frame - Wood	Main	13	2		9		18.0 ft²		0.23	0.75	0
____	16	W	Exterior	Frame - Wood	Main	13	12	2	9		109.5 ft²		0.23	0.75	0
____	17	N	Exterior	Frame - Wood	2nd Floor	13	5		8		40.0 ft²		0.23	0.75	0
____	18	E	Exterior	Frame - Wood	2nd Floor	13	10	8	8		85.3 ft²		0.23	0.75	0
____	19	S	Exterior	Frame - Wood	2nd Floor	13	5		8		40.0 ft²		0.23	0.75	0
____	20	S	Exterior	Frame - Wood	2nd Floor	13	14		8		112.0 ft²		0.23	0.75	0
____	21	S	Garage	Frame - Wood	Main	13	51	5	8		411.3 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
____	1	W	Insulated	Main	None	.4	5		8		40 ft²
____	2	N	Insulated	Main	None	.4	5		8		40 ft²
____	3	W	Insulated	Main	None	.4	3		8		24 ft²
____	4	S	Insulated	Main	None	.4	5		8		40 ft²
____	5	S	Insulated	Main	None	.4	3		6	8	20 ft²

INPUT SUMMARY CHECKLIST REPORT

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
____	1	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	2	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	96.0 ft²	11 ft 6 in	1 ft 4 in	None	None
____	3	W	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	4	N	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	5	N	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	12.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	6	E	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	24.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	7	E	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	12.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	8	S	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	6.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	9	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	72.0 ft²	7 ft 6 in	1 ft 4 in	None	None
____	10	W	12	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	11	W	14	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	12	W	14	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	13	W	16	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	14	E	18	Vinyl	Low-E Double	Yes	0.33	0.22	N	6.0 ft²	1 ft 6 in	1 ft 4 in	None	None
____	15	S	20	Vinyl	Low-E Double	Yes	0.33	0.22	N	10.0 ft²	1 ft 6 in	1 ft 4 in	None	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
____	1	552.14122778 ft²	552.14122778 ft²	59 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000282	2261.8	124.17	233.52	.1106	5

HEATING SYSTEM

√	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
____	1	Electric Heat Pump/	None	Singl	HSPF:8.5	48 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
____	1	Central Unit/	None	Singl	SEER: 16	48 kBtu/hr	1440 cfm	0.85	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
____	1	Electric	None	Garage	0.92	50 gal	70 gal	120 deg	None

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

SOLAR HOT WATER SYSTEM

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

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
_____	1	Main	6	611.6 ft	Main	152.9 ft	Prop. Leak Free	Garage	--- cfm	91.7 cfm	0.03	0.50	1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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

MASS

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 85

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

1. New home or, addition	1. New (From Plans)
2. Single-family or multiple-family	2. Single-family
3. No. of units (if multiple-family)	3. 1
4. Number of bedrooms	4. 4
5. Is this a worst case? (yes/no)	5. No
6. Conditioned floor area (sq. ft.)	6. 3058
7. Windows, type and area	
a) U-factor:(weighted average)	7a. 0.330
b) Solar Heat Gain Coefficient (SHGC)	7b. 0.220
c) Area	7c. 392.0
8. Skylights	
a) U-factor:(weighted average)	8a. NA
b) Solar Heat Gain Coefficient (SHGC)	8b. NA
9. Floor type, insulation level:	
a) Slab-on-grade (R-value)	9a. 0.0
b) Wood, raised (R-value)	9b. 0.0
c) Concrete, raised (R-value)	9c.
10. Wall type and insulation:	
A. Exterior:	
1. Wood frame (Insulation R-value)	10A1. 13.0
2. Masonry (Insulation R-value)	10A2.
B. Adjacent:	
1. Wood frame (Insulation R-value)	10B1. 13.0
2. Masonry (Insulation R-value)	10B2.
11. Ceiling type and insulation level	
a) Under attic	11a. 30.0
b) Single assembly	11b.
c) Knee walls/skylight walls	11c.
d) Radiant barrier installed	11d. No

12. Ducts, location & insulation level	
a) Supply ducts	R 6.0
b) Return ducts	R 6.0
c) AHU location	Garage
13. Cooling system:	Capacity 48.0
a) Split system	SEER
b) Single package	SEER
c) Ground/water source	SEER/COP
d) Room unit/PTAC	EER
e) Other	16.0
14. Heating system:	Capacity 48.0
a) Split system heat pump	HSPF
b) Single package heat pump	HSPF
c) Electric resistance	COP
d) Gas furnace, natural gas	AFUE
e) Gas furnace, LPG	AFUE
f) Other	8.50
15. Water heating system	
a) Electric resistance	EF 0.92
b) Gas fired, natural gas	EF
c) Gas fired, LPG	EF
d) Solar system with tank	EF
e) Dedicated heat pump with tank	EF
f) Heat recovery unit	HeatRec%
g) Other	
16. HVAC credits claimed (Performance Method)	
a) Ceiling fans	Yes
b) Cross ventilation	No
c) Whole house fan	No
d) Multizone cooling credit	
e) Multizone heating credit	
f) Programmable thermostat	Yes

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

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

Builder Signature:_____ Date:_____

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

FLORIDA PRODUCT APPROVALS
10-16-15

Rogue Valley Wood FL-13137

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3 flush glazed
		6'8" Fib- glazed Door	FL-17347
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
	* 53"x50"	3580 Hor. Slider	FL-13349.2
Finless covers Hardie		Vinyl 3540 Single Hung	FL-17676-R1
& finless per Jason		Vinyl 3500 Picture Window	FL-18644
	Atrium	150/160	FL-11834
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
5-16	63" X 44"	400 Hor. Slider	FL-16476.1
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
	LCIHW (House Wrap)	International Bldg Code	ESR3774
Underlayment:	Woodland	30# Felt	FL-17206-R3
	Interwrap	Rhino	FL-15216
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
Polyglass A.P. FL-1654 R20	Certainteed	Flintlastic SBS & APP	FL-16709.1
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing		5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3

Hardie Union CemPlank 13192.1

5-17-16 Per Owner SF. 6 Plan 15187.1 Plastpro

-7-16

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

RE: Beryl - Beryl

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

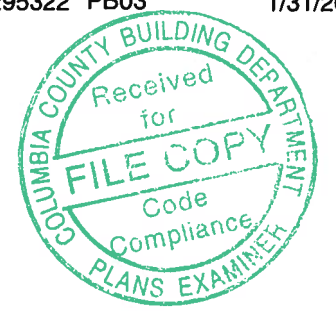
Site Information:
Customer Info: Adam's Construction Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: Fl

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

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

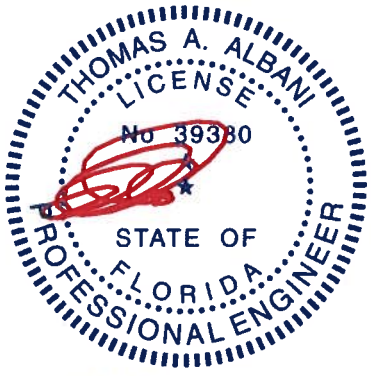
This package includes 31 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T19295292	A1GE	1/31/20	23	T19295314	M1GE	1/31/20
2	T19295293	A2	1/31/20	24	T19295315	M2	1/31/20
3	T19295294	A3	1/31/20	25	T19295316	M3	1/31/20
4	T19295295	A4	1/31/20	26	T19295317	M4GE	1/31/20
5	T19295296	A5	1/31/20	27	T19295318	M5GE	1/31/20
6	T19295297	A6	1/31/20	28	T19295319	M6	1/31/20
7	T19295298	A7	1/31/20	29	T19295320	PB01GE	1/31/20
8	T19295299	A8GE	1/31/20	30	T19295321	PB02	1/31/20
9	T19295300	B1	1/31/20	31	T19295322	PB03	1/31/20
10	T19295301	C1GE	1/31/20				
11	T19295302	D1GE	1/31/20				
12	T19295303	D2	1/31/20				
13	T19295304	D3	1/31/20				
14	T19295305	E1GE	1/31/20				
15	T19295306	E2	1/31/20				
16	T19295307	E3	1/31/20				
17	T19295308	E4	1/31/20				
18	T19295309	E5	1/31/20				
19	T19295310	F1GE	1/31/20				
20	T19295311	F2	1/31/20				
21	T19295312	F3GIR	1/31/20				
22	T19295313	G1GE	1/31/20				



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

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



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

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.

Job	Truss	Truss Type	Qty	Ply	Beryl	
BERYL	A1GE	PIGGYBACK BASE STRUC COMMON	1	1	Job Reference (optional)	T19295292

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:32 2020 Page 1
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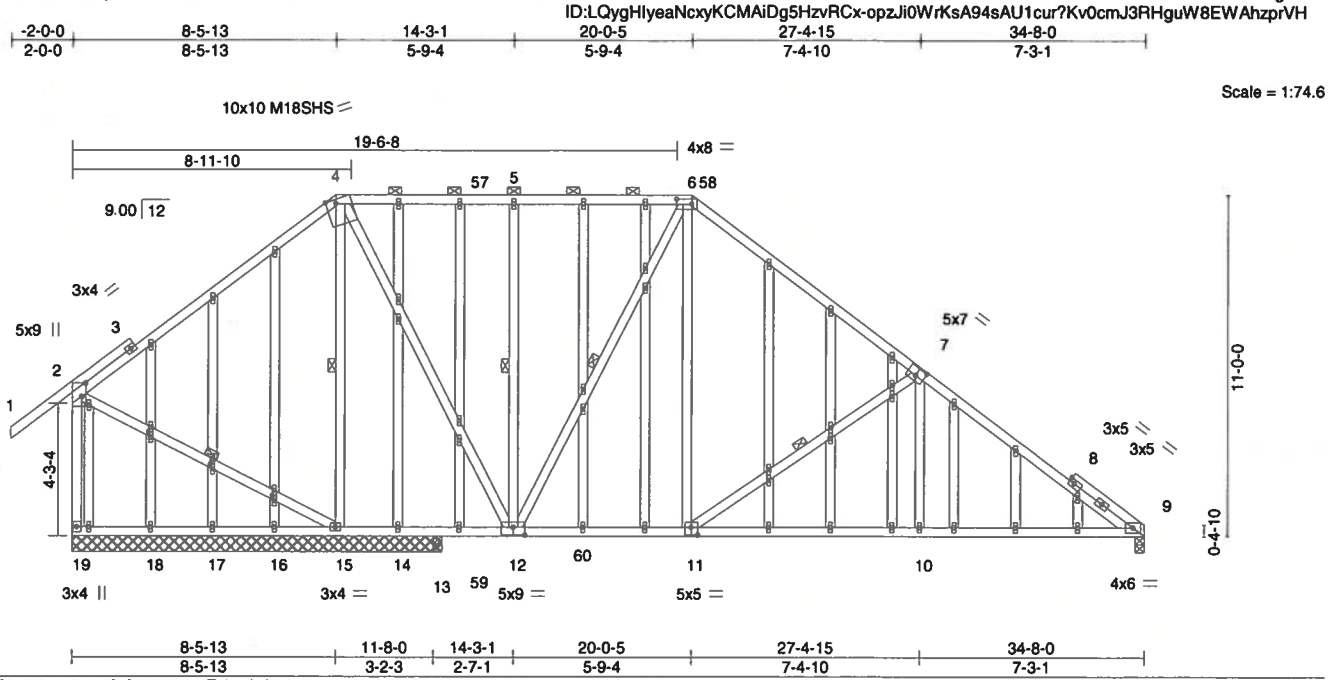


Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [4:0-3-14,Edge], [6:0-6-0,0-2-0], [7:0-3-8,0-3-0], [11:0-2-8,0-3-0], [12:0-4-8,0-3-0], [31:0-1-15,0-0-12], [33:0-1-15,0-0-12], [35:0-1-15,0-0-12]

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	0.65	Vert(LL)	-0.08	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.16	10-55	>999	180	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 387 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-15, 5-12, 6-12, 7-11, 2-15

REACTIONS. All bearings 11-11-8 except (jt=length) 9=0-3-8, 13=0-3-8.
(lb) - Max Horz 19=-272(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 19, 14 except 15=-162(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 19, 14, 16, 17, 18, 13 except 15=1700(LC 1), 9=936(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-89/466, 4-5=-259/174, 5-6=-259/174, 6-7=-780/206, 7-9=-1272/182
BOT CHORD 18-19=-203/254, 17-18=-203/254, 16-17=-203/254, 15-16=-203/254, 14-15=-509/327, 13-14=-509/327, 12-13=-509/327, 11-12=0/503, 10-11=-49/989, 9-10=-48/991
WEBS 4-15=-1474/407, 4-12=-216/1028, 5-12=-366/136, 6-12=-604/139, 6-11=-56/575, 7-11=-642/242, 7-10=0/311, 2-15=-517/337

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 14 except (jt=lb) 15=162.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

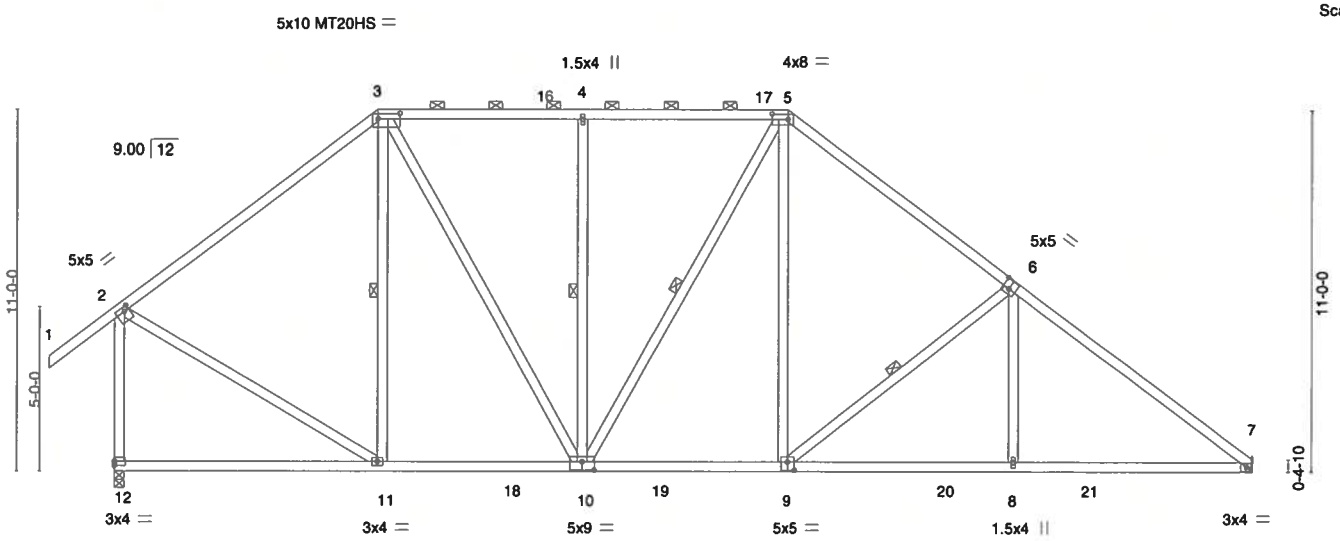
Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	A2	PIGGYBACK BASE	2	1	T19295293

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:33 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-G?XhvMXT5AI0i0kgbKP4YYSBrAeDAsG1Io_3j7zprVG

-2-0-0	8-0-0	14-3-1	20-6-3	27-4-15	34-8-0
2-0-0	8-0-0	6-3-1	6-3-1	6-10-12	7-3-1

Scale = 1:70.4



8-0-0	14-3-1	20-6-3	27-4-15	34-8-0
8-0-0	6-3-1	6-3-1	6-10-12	7-3-1

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-8-0,0-2-0], [5:0-6-0,0-2-0], [6:0-2-8,0-3-4], [9:0-2-8,0-3-0], [10:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.11	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.22	11-12	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 238 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-5 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-11, 4-10, 5-10, 6-9

REACTIONS. (lb/size) 12=1514/0-3-8, 7=1377/Mechanical
Max Horz 12=-276(LC 10)
Max Uplift 12=-49(LC 12), 7=-3(LC 12)
Max Grav 12=1516(LC 17), 7=1478(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1195/335, 3-4=-1162/397, 4-5=-1162/397, 5-6=-1594/409, 6-7=-2135/374, 2-12=-1445/383
BOT CHORD 11-12=-194/260, 10-11=0/944, 9-10=-3/1190, 8-9=-184/1613, 7-8=-183/1616
WEBS 3-11=-304/125, 3-10=-116/684, 4-10=-406/160, 5-9=-61/626, 6-9=-653/233, 6-8=0/305, 2-11=-51/993

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

January 31,2020

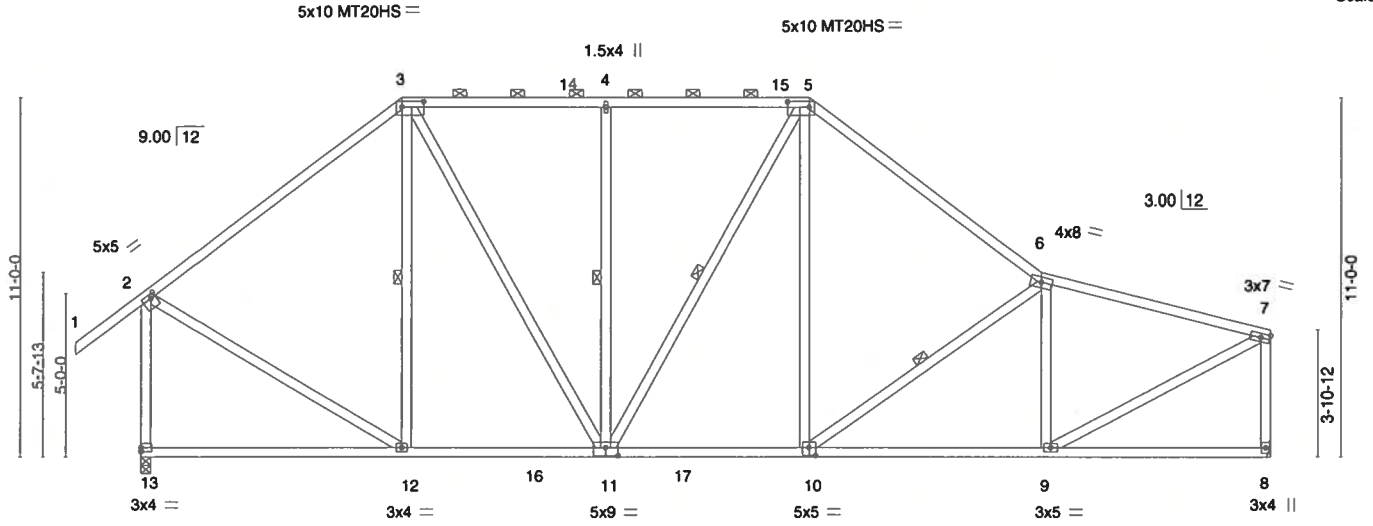
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl	T19295294
BERYL	A3	PIGGYBACK BASE	4	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:34 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-kB437hX6sUQtKAJs81wJ5l?Mfa??vlnBzSjdFZzprVF

-2-0-0 | 8-0-0 | 14-3-1 | 20-6-3 | 27-7-13 | 34-8-0
2-0-0 | 8-0-0 | 6-3-1 | 6-3-1 | 7-1-10 | 7-0-3

Scale = 1:70.9



8-0-0 | 14-3-1 | 20-6-3 | 27-7-13 | 34-8-0
8-0-0 | 6-3-1 | 6-3-1 | 7-1-10 | 7-0-3

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-8-0,0-2-0], [5:0-8-0,0-2-0], [10:0-2-8,0-3-0], [11:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.11	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.22	12-13	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 252 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-3-4 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-12, 4-11, 5-11, 6-10

REACTIONS. (lb/size) 13=1508/0-3-8, 8=1371/Mechanical
Max Horz 13=-264(LC 10)
Max Uplift 13=-48(LC 12), 8=-4(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1166/330, 3-4=-1109/389, 4-5=-1109/389, 5-6=-1493/386, 6-7=-1533/341, 2-13=-1431/386, 7-8=-1306/311
BOT CHORD 11-12=-134/912, 10-11=-176/1124, 9-10=-322/1458
WEBS 3-12=-301/127, 3-11=-119/636, 4-11=-398/154, 5-10=-50/498, 6-10=-468/221, 6-9=-609/243, 2-12=-55/959, 7-9=-309/1578

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

January 31,2020

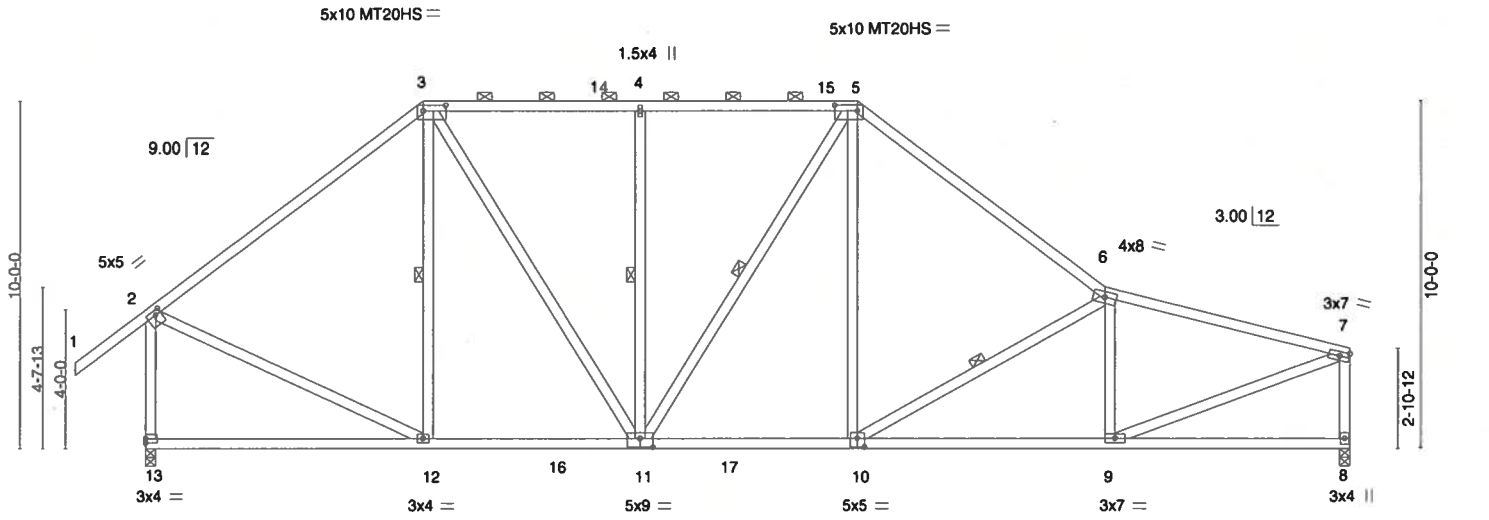
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl	T19295295
BERYL	A4	PIGGYBACK BASE	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:36 2020 Page 1
ID:LQygHlyeaNcxyKCMAiDg5HzvRCx-haCqYNZMO5gaZUTFGSynAA4jONgwNBSTRmCjJSzprVD

-2-0-6	8-0-0	14-3-1	20-6-3	27-7-13	34-8-0
2-0-6	8-0-0	6-3-1	6-3-1	7-1-10	7-0-3

Scale = 1:66.6



8-0-0	14-3-1	20-6-3	27-7-13	34-8-0
8-0-0	6-3-1	6-3-1	7-1-10	7-0-3

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-8-0,0-2-0], [5:0-8-0,0-2-0], [10:0-2-8,0-3-0], [11:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.11	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.22	12-13	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 238 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-2 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-12, 4-11, 5-11, 6-10

REACTIONS. (lb/size) 13=1510/0-3-8, 8=1371/0-3-8
Max Horz 13=-237(LC 10)
Max Uplift 13=-50(LC 12), 8=-2(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1256/328, 3-4=-1213/396, 4-5=-1213/396, 5-6=-1626/398, 6-7=-1875/392, 2-13=-1432/385, 7-8=-1304/307
BOT CHORD 11-12=-116/979, 10-11=-169/1220, 9-10=-369/1790
WEBS 3-11=-117/643, 4-11=-398/155, 5-10=-52/576, 6-10=-694/257, 6-9=-524/220, 2-12=-45/980, 7-9=-343/1814

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

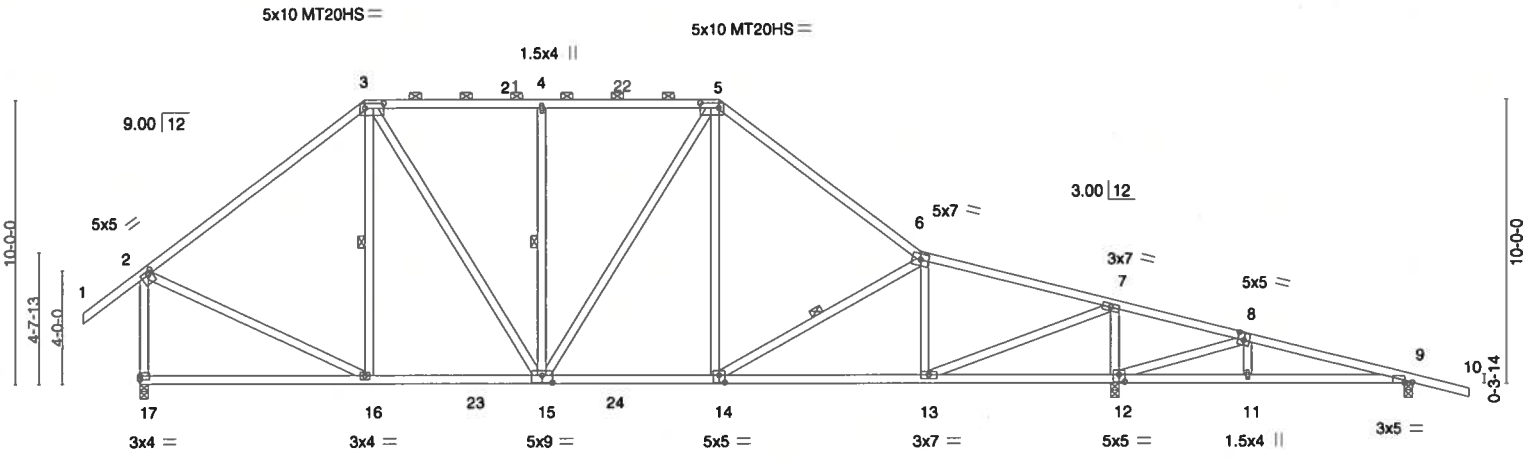
January 31,2020

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	A5	PIGGYBACK BASE	1	1	T19295296
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:37 2020 Page 1
ID:LQygHlyeaNcxyKCMAiDg5HzvRCx-9mmClja_9PoRBd2Rq9T0iOdtGn036dNdfQyHsuzprVC

-2-0-0	8-0-0	14-3-1	20-6-3	27-7-13	34-6-4	39-2-6	44-11-8	46-11-8
2-0-0	8-0-0	6-3-1	6-3-1	7-1-10	6-10-7	4-8-2	5-9-2	2-0-0

Scale = 1:81.7



8-0-0	14-3-1	20-6-3	27-7-13	34-6-4	39-2-6	44-11-8
8-0-0	6-3-1	6-3-1	7-1-10	6-10-7	4-8-2	5-9-2

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-8-0,0-2-0], [5:0-8-0,0-2-0], [8:0-2-8,0-3-0], [9:0-3-4,Edge], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.11	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.22	16-17	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 281 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-7 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-16, 4-15, 6-14

REACTIONS. (lb/size) 17=1451/0-3-8, 12=2049/0-3-8, 9=334/0-3-8
Max Horz 17=-245(LC 10)
Max Uplift 17=-45(LC 12), 12=-104(LC 12), 9=-128(LC 12)
Max Grav 17=1451(LC 1), 12=2049(LC 1), 9=338(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1211/312, 3-4=-1143/374, 4-5=-1143/374, 5-6=-1493/359, 6-7=-1512/276, 7-8=-262/787, 8-9=-0/251, 2-17=-1373/363
BOT CHORD 16-17=-136/253, 15-16=0/948, 14-15=0/1126, 13-14=-85/1442, 12-13=-633/327
WEBS 3-15=-92/582, 4-15=-398/154, 5-14=-2/446, 6-14=-430/160, 6-13=-661/251, 7-13=-426/2191, 7-12=-1701/456, 8-12=-719/556, 2-16=-26/936

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 12=104, 9=128.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	A6	PIGGYBACK BASE	7	1	T19295297

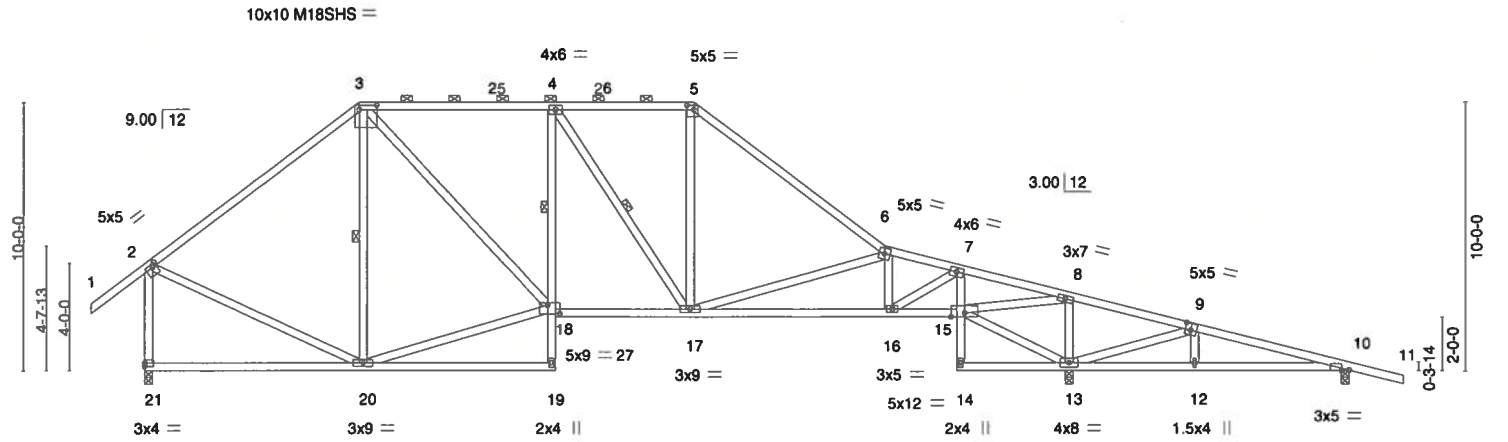
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:38 2020 Page 1

ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-dyKay3acwixlonddNt?FFb92KBLKr0Jmu4hqOLzprVB

-2-0-0	8-0-0	15-4-0	20-6-3	27-7-13	30-4-0	34-6-4	39-2-6	44-11-8	46-11-8
2-0-0	8-0-0	7-4-0	5-2-3	7-1-10	2-8-3	4-2-4	4-8-2	5-9-2	2-0-0

Scale = 1:86.1



8-0-0	15-4-0	20-6-3	27-7-13	30-4-0	34-6-4	39-2-6	44-11-8
8-0-0	7-4-0	5-2-3	7-1-10	2-8-3	4-2-4	4-8-2	5-9-2

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-8-0,0-2-0], [5:0-3-4,0-2-0], [9:0-2-8,0-3-0], [10:0-3-4,Edge], [18:0-5-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.10	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.25	16-17	>999	180	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 290 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-3-12 max.): 3-5.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 4-18
WEBS 1 Row at midpt 3-20, 4-17

REACTIONS. (lb/size) 21=1367/0-3-8, 10=86/0-3-8, 13=2381/0-3-8
Max Horz 21=-245(LC 10)
Max Uplift 21=-49(LC 12), 10=-157(LC 9), 13=-89(LC 12)
Max Grav 21=1367(LC 1), 10=98(LC 22), 13=2381(LC 1)

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

TOP CHORD 2-3=-1113/304, 3-4=-1282/356, 4-5=-1140/328, 5-6=-1541/315, 6-7=-1655/259, 7-8=-475/0, 8-9=-338/1852, 9-10=0/1095, 2-21=-1292/354
BOT CHORD 20-21=-138/251, 17-18=0/1296, 16-17=-69/1636, 15-16=0/465, 7-15=-1147/281, 12-13=-1033/0, 10-12=-1028/0
WEBS 3-20=-404/87, 18-20=0/830, 3-18=-55/780, 4-17=-354/43, 5-17=-5/515, 6-17=-561/163, 6-16=-632/237, 7-16=-308/1378, 13-15=-2000/461, 8-15=-241/2194, 8-13=-1092/240, 9-13=-831/580, 2-20=-19/793

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 13 except (jt=lb) 10=157.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

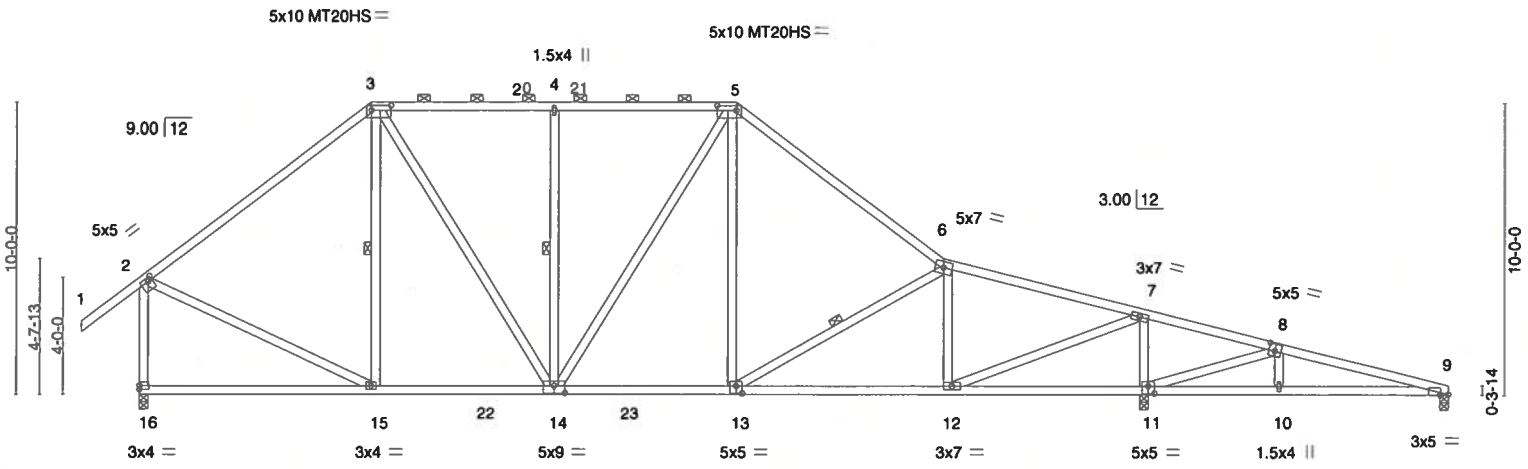
Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	A7	PIGGYBACK BASE	2	1	T19295298

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:39 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-59uyAPbEh039QxCqxaWUopiDmbiWaXpw7kROwnzprVA

-2-0-0	8-0-0	14-3-1	20-6-3	27-7-13	34-6-4	39-2-6	44-11-8
2-0-0	8-0-0	6-3-1	6-3-1	7-1-10	6-10-7	4-8-2	5-9-2

Scale = 1:79.4



8-0-0	14-3-1	20-6-3	27-7-13	34-6-4	39-2-6	44-11-8
8-0-0	6-3-1	6-3-1	7-1-10	6-10-7	4-8-2	5-9-2

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-8-0,0-2-0], [5:0-8-0,0-2-0], [8:0-2-8,0-3-0], [9:0-3-4,Edge], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0], [14:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.11	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.22	15-16	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 278 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-8 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-15, 4-14, 6-13

REACTIONS. (lb/size) 16=1449/0-3-8, 11=2069/0-3-8, 9=196/0-3-8
Max Horz 16=-239(LC 10)
Max Uplift 16=-44(LC 12), 11=-117(LC 12), 9=-68(LC 12)
Max Grav 16=1449(LC 1), 11=2069(LC 1), 9=200(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1210/309, 3-4=-1141/369, 4-5=-1141/369, 5-6=-1490/350, 6-7=-1502/253, 7-8=-287/813, 8-9=-29/252, 2-16=-1371/361
BOT CHORD 14-15=0/943, 13-14=0/1120, 12-13=-98/1432, 11-12=-659/332
WEBS 3-14=-90/580, 4-14=-398/154, 5-13=0/442, 6-13=-423/143, 6-12=-666/261, 7-12=-453/2207, 7-11=-1706/468, 8-11=-778/583, 2-15=-24/934

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 9 except (jt=lb) 11=117.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

January 31,2020

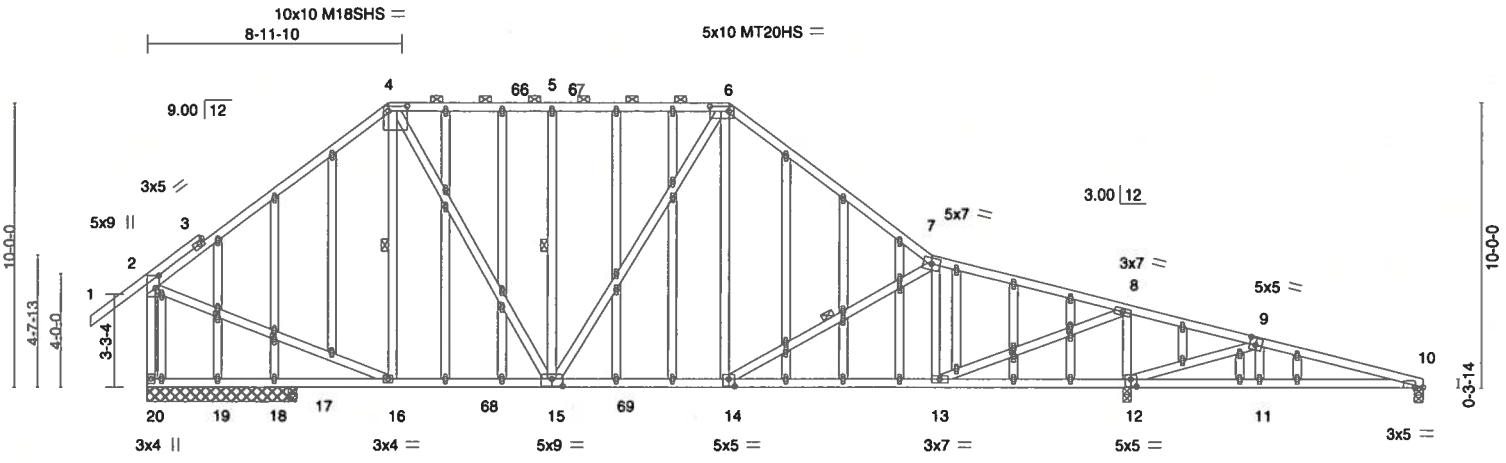
Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	A8GE	PIGGYBACK BASE STRUC I I	1	1	T19295299

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:43 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-zw7T0melkFZbvYVbAQaQyftssC3VWLuV2LPb3YzprV6

-2-0-0	8-5-13	14-3-1	20-6-3	27-7-13	34-6-4	39-2-6	44-11-8
2-0-0	8-5-13	5-9-4	6-3-1	7-1-10	6-10-7	4-8-2	5-9-2

Scale = 1:81.4



5-0-0	8-0-0 8-5-13	14-3-1	20-6-3	27-7-13	34-6-4	39-2-6	44-11-8
5-0-0	3-0-0 0-5-13	5-9-4	6-3-1	7-1-10	6-10-7	4-8-2	5-9-2

Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [4:0-8-0,0-2-0], [6:0-8-0,0-2-0], [9:0-2-8,0-3-0], [10:0-3-4,Edge], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-4-8,0-3-0], [35:0-1-12,0-0-12], [37:0-1-12,0-0-12], [53:0-1-12,0-0-12], [56:0-1-12,0-0-12]

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	0.78	Vert(LL)	-0.10	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.19	13-14	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	12	n/a	n/a	M18SHS	244/190
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 415 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-3-2 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-16, 5-15, 7-14

REACTIONS. All bearings 5-3-8 except (jt=length) 12=0-3-8, 10=0-3-8, 17=0-3-8.
(lb) - Max Horz 20=-236(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 12, 19 except 20=-124(LC 12), 18=-153(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 19, 10 except 20=1348(LC 1), 12=2054(LC 1), 17=253(LC 1)

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

TOP CHORD	2-4=-1161/341, 4-5=-1096/392, 5-6=-1095/392, 6-7=-1443/385, 7-8=-1454/331, 8-9=-152/825, 2-20=-1299/387
BOT CHORD	19-20=-141/257, 18-19=-141/257, 17-18=-141/257, 16-17=-141/257, 15-16=0/913, 14-15=-4/1083, 13-14=-173/1384, 12-13=-671/202
WEBS	4-16=-259/77, 4-15=-80/584, 5-15=-375/143, 6-14=-21/428, 7-14=-402/198, 7-13=-656/234, 8-13=-394/2183, 8-12=-1691/435, 9-12=-779/218, 2-16=-13/861

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 19 except (jt=lb) 20=124, 18=153.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

January 31,2020

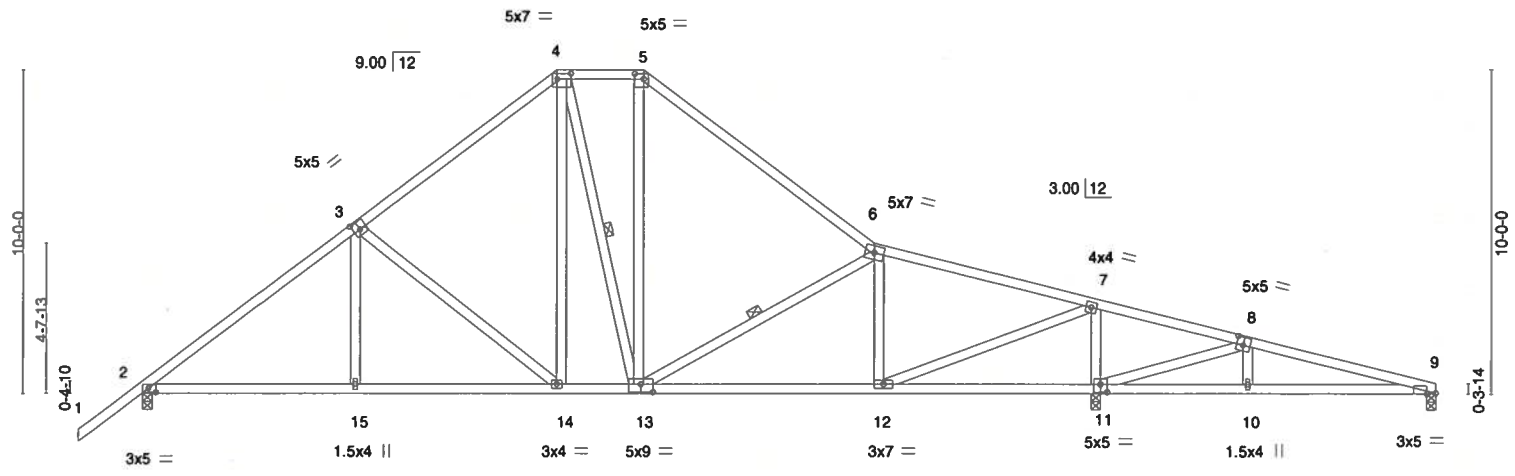
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	B1	Piggyback Base	4	1	T19295300
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:44 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-S6hrD6fNVYhSWi4nk76fUsP5ccPmFm2fG?89c_zprV5

-2-0-0	6-7-1	12-9-13	15-6-3	22-7-13	29-6-4	34-2-6	39-11-8
2-0-0	6-7-1	6-2-12	2-8-5	7-1-10	6-10-7	4-8-2	5-9-2

Scale = 1:71.5



6-7-1	12-9-13	15-6-3	22-7-13	29-6-4	34-2-6	39-11-8
6-7-1	6-2-12	2-8-5	7-1-10	6-10-7	4-8-2	5-9-2

Plate Offsets (X,Y)-- [2:0-2-13,0-1-8], [3:0-2-8,0-3-0], [4:0-5-4,0-2-0], [5:0-3-4,0-2-0], [8:0-2-8,0-3-0], [9:0-3-4,Edge], [11:0-2-8,0-3-0], [13:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.19	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 233 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-13, 6-13

REACTIONS. (lb/size) 2=1243/0-3-8, 11=1857/0-3-8, 9=217/0-3-8
Max Horz 2=-200(LC 10)
Max Uplift 2=-45(LC 12), 11=-112(LC 12), 9=-68(LC 12)
Max Grav 2=1243(LC 1), 11=1857(LC 1), 9=233(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1563/254, 3-4=-1129/293, 4-5=-828/296, 5-6=-1147/276, 6-7=-1231/191, 7-8=-269/731, 8-9=-160/269
BOT CHORD 2-15=-66/1186, 14-15=-67/1185, 13-14=0/806, 12-13=-36/1163, 11-12=-591/317
WEBS 3-15=0/284, 3-14=-554/198, 4-14=-74/401, 5-13=-7/349, 6-13=-435/141, 6-12=-536/234, 7-12=-371/1865, 7-11=-1496/418, 8-11=-780/582

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 11=112.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	C1GE	Common Supported Gable	1	1	T19295301

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:45 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-wJFDRSg?GspJ8sfzIrdu14yKp?s5_KxoVfui8RzprV4

-2-0-0 2-0-0 | 12-1-0 12-1-0 | 24-2-0 12-1-0 | 26-2-0 2-0-0

Scale = 1:61.8

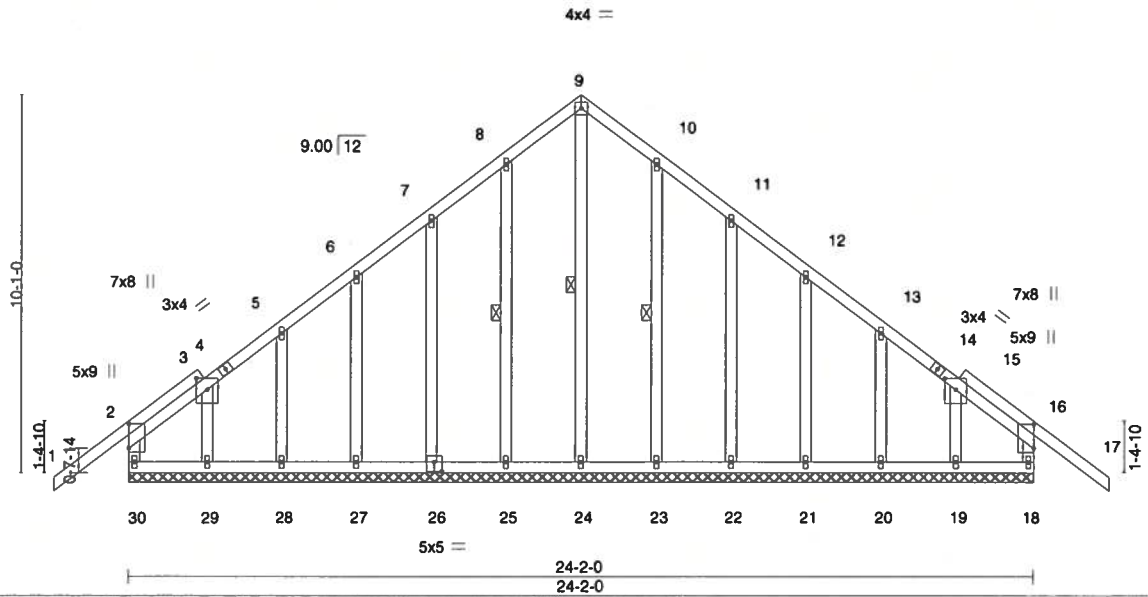


Plate Offsets (X,Y)-- [2:0-7-13,0-0-0], [3:0-3-10,0-3-8], [15:0-3-10,0-3-8], [16:0-7-13,0-0-0], [26:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.03	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.04	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	18	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-R							Weight: 187 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 9-24, 8-25, 10-23

REACTIONS. All bearings 24-2-0.
(lb) - Max Horz 30=-224(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 30, 18, 25, 26, 27, 28, 29, 23, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 25, 26, 27, 28, 29, 23, 22, 21, 20, 19 except 30=267(LC 18), 18=256(LC 22), 24=253(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-206/263, 8-9=-258/322, 9-10=-258/322, 10-11=-206/262
WEBS 9-24=-318/190

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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) 30, 18, 25, 26, 27, 28, 29, 23, 22, 21, 20, 19.

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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	D1GE	Roof Special	1	1	T19295302

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:47 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-shN_r8hFoT31NApMPGfM6V1dwpTTS4y5zzNpCJzprV2

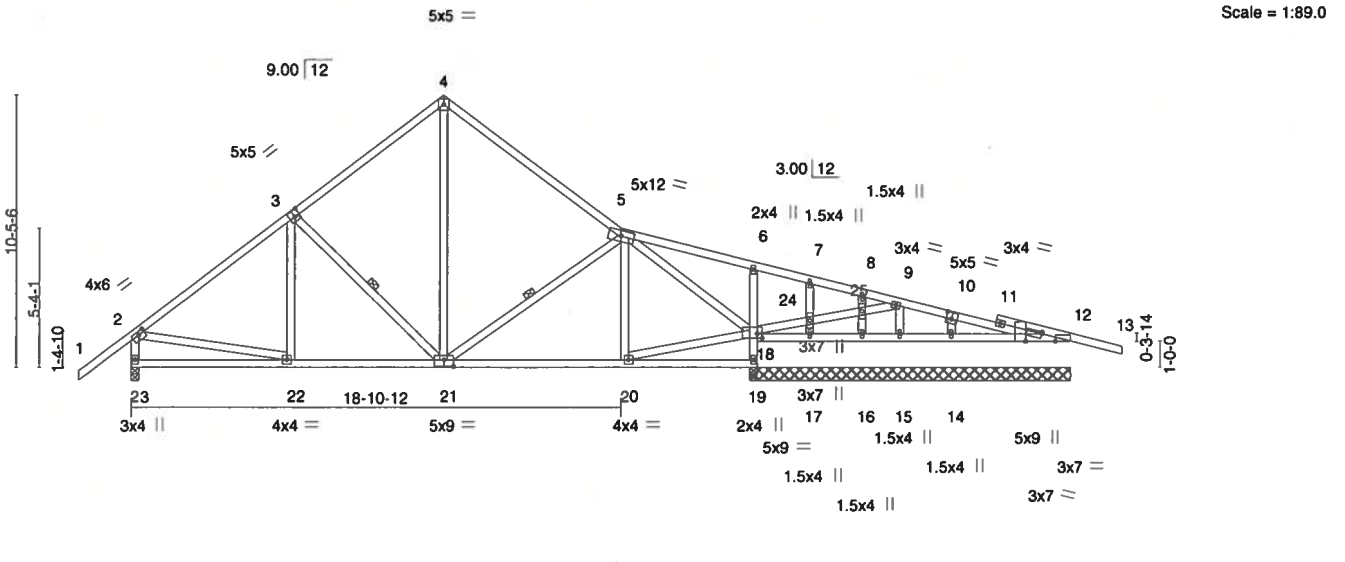


Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [3:0-2-8,0-3-0], [10:0-2-8,0-3-0], [12:0-0-4,0-0-12], [12:0-6-0,Edge], [12:0-3-8,Edge], [18:0-2-4,0-2-0], [21:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.05	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.12	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.02	19	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 225 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-21, 5-21

REACTIONS. All bearings 12-3-8 except (jt=length) 23=0-3-8.
(lb) - Max Horz 23=-217(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 23, 19, 12, 15, 16
Max Grav All reactions 250 lb or less at joint(s) 15, 17, 16 except 23=1064(LC 1), 19=1183(LC 1), 19=1183(LC 1), 12=300(LC 22), 14=311(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1047/208, 3-4=-792/268, 4-5=-808/253, 2-23=-1003/278
BOT CHORD 22-23=-94/273, 21-22=-7/787, 20-21=-22/702, 18-19=-1140/269
WEBS 3-21=-357/164, 4-21=-130/506, 18-20=-35/696, 5-18=-1120/205, 2-22=-16/667

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 19, 12, 15, 16.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

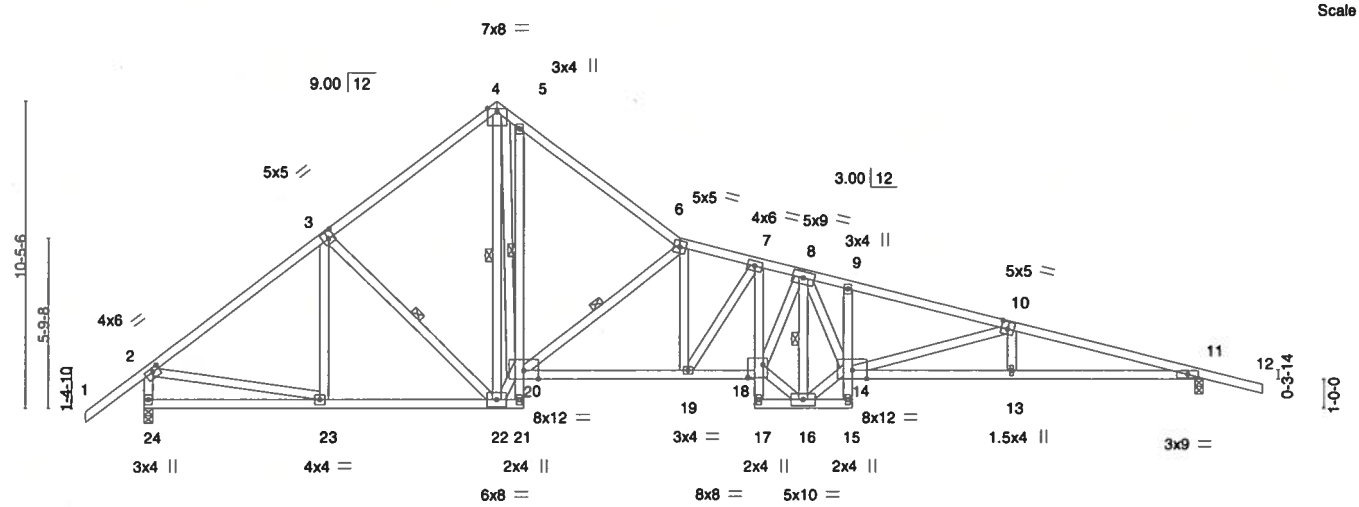
Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	D2	Roof Special	6	1	T19295303

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:49 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-o4UkGqjWK5JkdTzlXhhqBw6w9d0Fw_KOQHswHCzprV0

-2-0-0	6-2-4	12-1-0	13-0-0	18-3-9	20-10-8	22-6-4	24-2-0	29-7-8	36-2-0	38-2-0
2-0-0	6-2-4	5-10-12	0-11-0	5-3-9	2-6-15	1-7-12	1-7-12	5-5-8	6-6-8	2-0-0

Scale = 1:78.8



6-2-4	12-1-0	13-0-0	18-3-9	20-10-8	22-6-4	24-2-0	29-7-8	36-2-0
6-2-4	5-10-12	0-11-0	5-3-9	2-6-15	1-7-12	1-7-12	5-5-8	6-6-8

Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [3:0-2-8,0-3-0], [10:0-2-8,0-3-0], [18:0-6-4,0-5-4]

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	0.66	Vert(LL)	-0.41	18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.84	13-14	>517	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.29	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 262 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
11-14: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 5-20
WEBS 1 Row at midpt 3-22, 4-22, 6-20, 8-16

REACTIONS. (lb/size) 24=1570/0-3-8, 11=1560/0-3-8
Max Horz 24=-216(LC 10)
Max Uplift 24=-52(LC 12), 11=-49(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1712/346, 3-4=-1551/425, 4-5=-1556/506, 5-6=-1811/438, 6-7=-3013/645, 7-8=-3583/760, 8-9=-3799/834, 9-10=-3934/819, 10-11=-4793/982, 2-24=-1501/382
BOT CHORD 23-24=-83/285, 22-23=-117/1281, 19-20=-430/2896, 18-19=-571/3497, 7-18=-189/932, 13-14=-890/4613, 11-13=-886/4621
WEBS 3-22=-285/150, 4-22=-799/0, 20-22=0/1485, 4-20=-365/2249, 6-20=-1976/488, 6-19=-88/672, 7-19=-1011/238, 16-18=-567/3331, 8-18=-227/1638, 8-16=-3684/635, 14-16=-476/3016, 8-14=-452/2310, 10-14=-881/233, 2-23=-129/1187

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 11.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

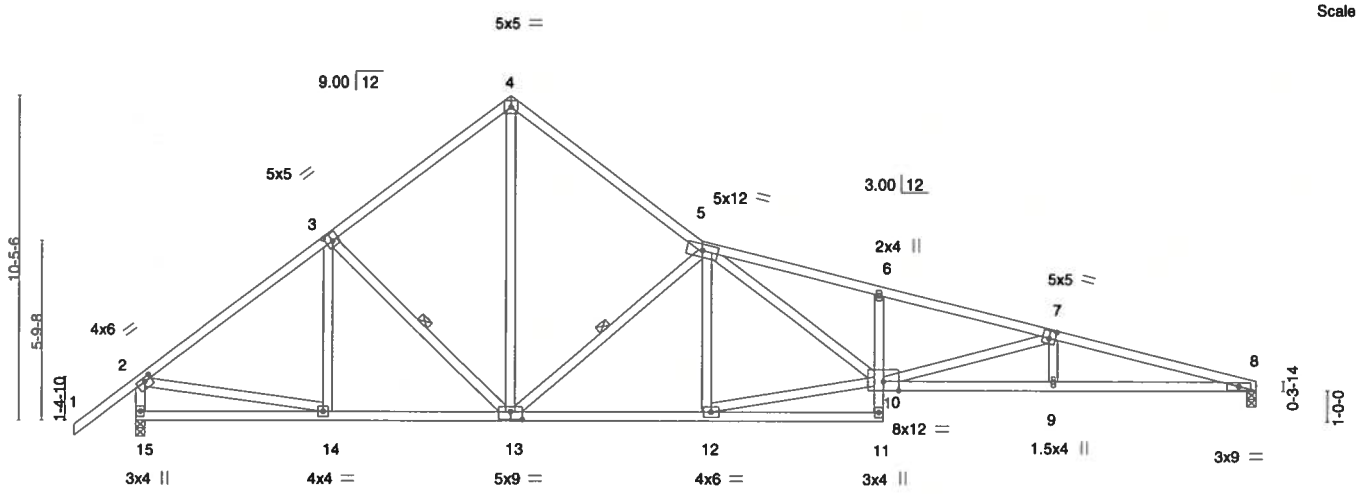
Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	D3	Roof Special	2	1	T19295304

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:50 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-GG26UAk85ORbEdYx4OC3k7f3?0N_fTxXfxbTpezprV?

-2-0-0	6-2-4	12-1-0	18-3-9	24-2-0	29-7-8	36-2-0
2-0-0	6-2-4	5-10-12	6-2-9	5-10-7	5-5-8	6-6-8

Scale = 1:74.6



6-2-4	12-1-0	18-3-9	24-2-0	29-7-8	36-2-0
6-2-4	5-10-12	6-2-9	5-10-7	5-5-8	6-6-8

Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [13:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.35	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.71	9-10	>610	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 217 lb	FT = 0%

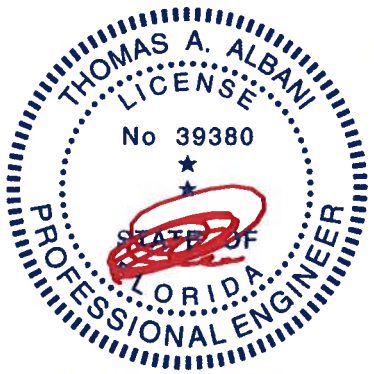
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-10: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-13, 5-13

REACTIONS. (lb/size) 15=1573/0-3-8, 8=1437/0-3-8
Max Horz 15=-210(LC 10)
Max Uplift 15=-53(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1722/349, 3-4=-1542/426, 4-5=-1544/417, 5-6=-3905/896, 6-7=-3973/846, 7-8=-4863/1024, 2-15=-1511/384
BOT CHORD 14-15=-84/274, 13-14=-147/1288, 12-13=-383/2382, 6-10=-325/180, 9-10=-950/4682, 8-9=-946/4691
WEBS 3-13=-295/147, 4-13=-333/1356, 5-13=-1647/455, 5-12=-269/139, 10-12=-342/2161, 5-10=-410/1747, 7-10=-913/248, 7-9=0/254, 2-14=-128/1200

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	E1GE	ATTIC	1	1	T19295305

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:52 2020 Page 1

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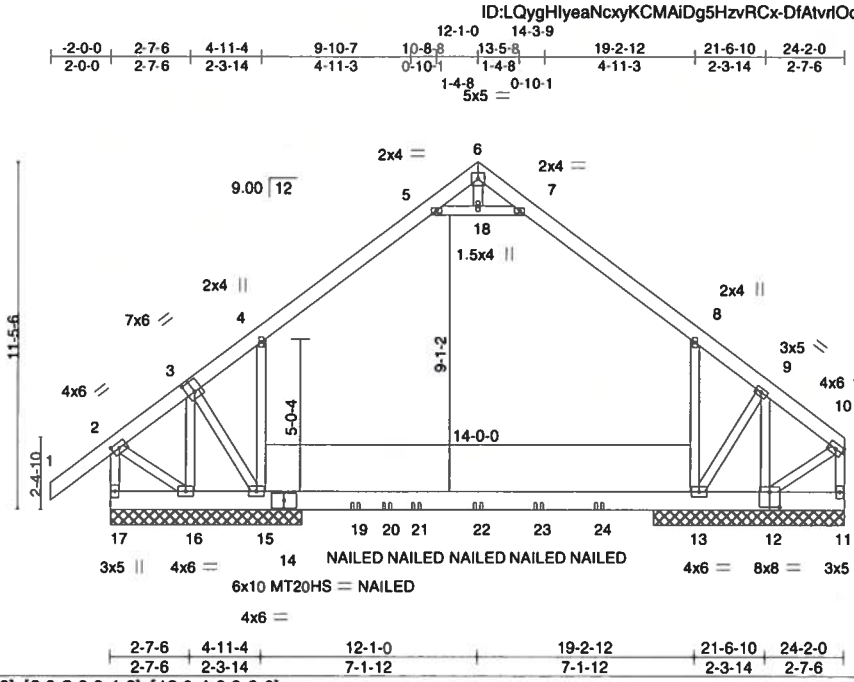

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [3:0-3-0,0-4-8], [12:0-4-0,0-6-0]

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	0.23	Vert(LL)	-0.21	13-15	>802	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.29	13-15	>584	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.21	13-15	802	360	Weight: 207 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.

REACTIONS. All bearings 6-3-8.
(lb) - Max Horz 17=247(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except 12=-971(LC 12), 16=-1010(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 17=809(LC 31), 13=1795(LC 31), 15=1838(LC 12), 11=700(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-430/0, 3-4=-498/0, 4-5=-621/76, 7-8=-621/75, 8-9=-502/0, 9-10=-410/0, 2-17=-689/0, 10-11=-522/0
BOT CHORD 15-16=-20/327, 13-15=0/418, 12-13=0/316
WEBS 5-18=-405/130, 7-18=-405/130, 8-13=-445/35, 9-12=-314/0, 4-15=-459/45, 3-16=-290/0, 2-16=0/385, 10-12=0/365

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-18, 7-18; Wall dead load (5.0psf) on member(s).8-13, 4-15
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 971 lb uplift at joint 12 and 1010 lb uplift at joint 16.
9) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS. TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING.
12) Attic room checked for L/360 deflection.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: January 31,2020

LOAD CASE(S) Standard

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	E1GE	ATTIC	1	1	T19295305
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 15-17=-20, 13-15=-30, 11-13=-20, 5-7=-10
   Drag: 8-13=-10, 4-15=-10

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	E2	ATTIC	7	1	T19295306

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:54 2020 Page 1
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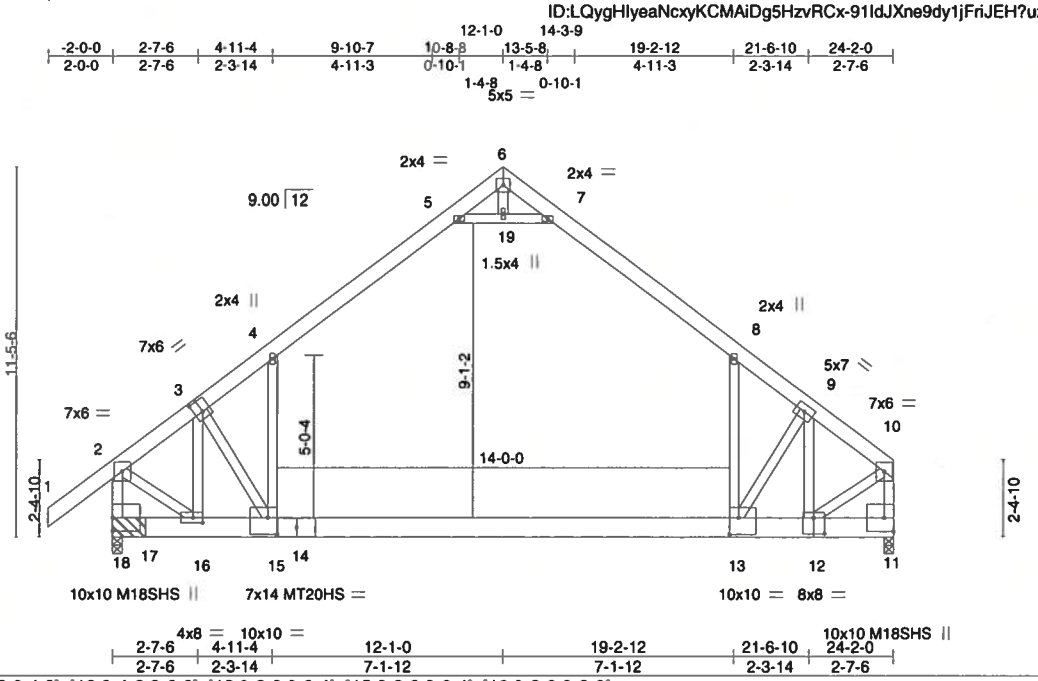

Plate Offsets (X,Y)-- [3:0-3-0,0-4-8], [12:0-4-0,0-6-0], [13:0-3-8,0-6-4], [15:0-3-8,0-6-4], [16:0-3-8,0-2-0]

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	0.58	Vert(LL)	-0.30	13-15	>947	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.47	13-15	>610	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.03	11	n/a	n/a	M18SHS	244/190
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.25	13-15	673	360	Weight: 210 lb	FT = 0%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 18=2787/(0-3-8 + bearing block) (req. 0-3-10), 11=2647/0-3-8
Max Horz 18=247(LC 11)
Max Grav 18=4347(LC 18), 11=4206(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3380/258, 3-4=-4654/249, 4-5=-4973/496, 5-6=-4679/455, 6-7=-4728/455, 7-8=-5022/496, 8-9=-4760/253, 9-10=-3226/236, 2-18=-4218/361, 10-11=-4022/265
BOT CHORD 15-16=-178/2745, 13-15=-183/3932, 12-13=-158/2638
WEBS 5-19=-582/76, 7-19=-582/76, 8-13=-667/266, 9-13=-48/2461, 9-12=-2900/46, 4-15=-717/283, 3-15=-62/2419, 3-16=-2775/0, 2-16=-84/3165, 10-12=-169/3154

NOTES-
1) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 18 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP 2400F 2.0E.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-19, 7-19; Wall dead load (5.0psf) on member(s).8-13, 4-15
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5488 lb down and 468 lb up at 12-1-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
10) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS. TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING.
11) Attic room checked for L/360 deflection.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
January 31,2020

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 15-18=-20, 13-15=-30, 11-13=-20, 5-7=-10

Drag: 8-13=-10, 4-15=-10

Concentrated Loads (lb)

Vert: 6=-3000(F)

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	E3	Attic	1	4	T19295307

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:49:58 2020 Page 1

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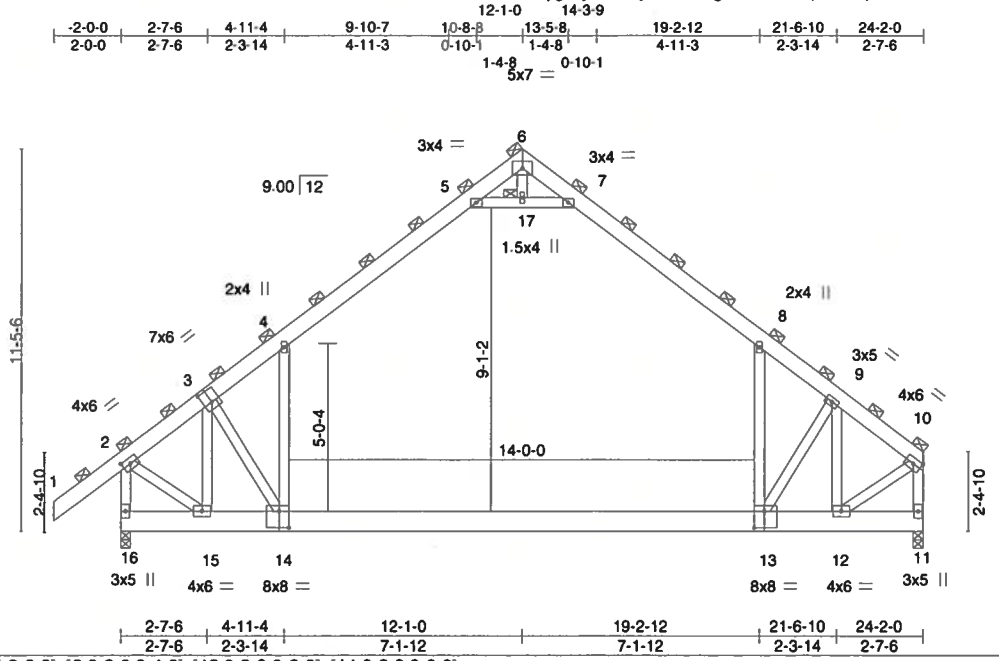

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [3:0-3-0,0-4-8], [13:0-3-8,0-6-0], [14:0-3-8,0-6-0]

LOADING (psf)		SPACING-	6-0-8	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.49	13-14	>590	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.73	13-14	>392	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.30	13-14	573	360	Weight: 826 lb	FT = 0%

LUMBER-

TOP CHORD 2x6 SP SS *Except*
1-3: 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16.
JOINTS 1 Brace at Jt(s): 6, 10, 17, 2

REACTIONS. (lb/size) 16=3894/0-3-8, 11=3470/0-3-8
Max Horz 16=746(LC 11)
Max Grav 16=4873(LC 18), 11=4490(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3492/197, 3-4=-5526/0, 4-5=-3377/508, 5-6=-78/2770, 6-7=-76/2773, 7-8=-3370/509, 8-9=-5579/0, 9-10=-3516/148, 2-16=-4575/384, 10-11=-4196/94
BOT CHORD 15-16=-694/647, 14-15=-98/3174, 13-14=0/3340, 12-13=-45/2874
WEBS 5-17=-6526/756, 7-17=-6526/756, 8-13=0/3916, 9-13=-433/1130, 9-12=-4168/0, 4-14=0/3843, 3-14=-320/1350, 3-15=-4220/0, 6-17=-9/503, 2-15=0/3460, 10-12=0/3525

NOTES-

1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0psf) on member(s).8-13, 4-14
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS. TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING.
11) Attic room checked for L/360 deflection.

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

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERANCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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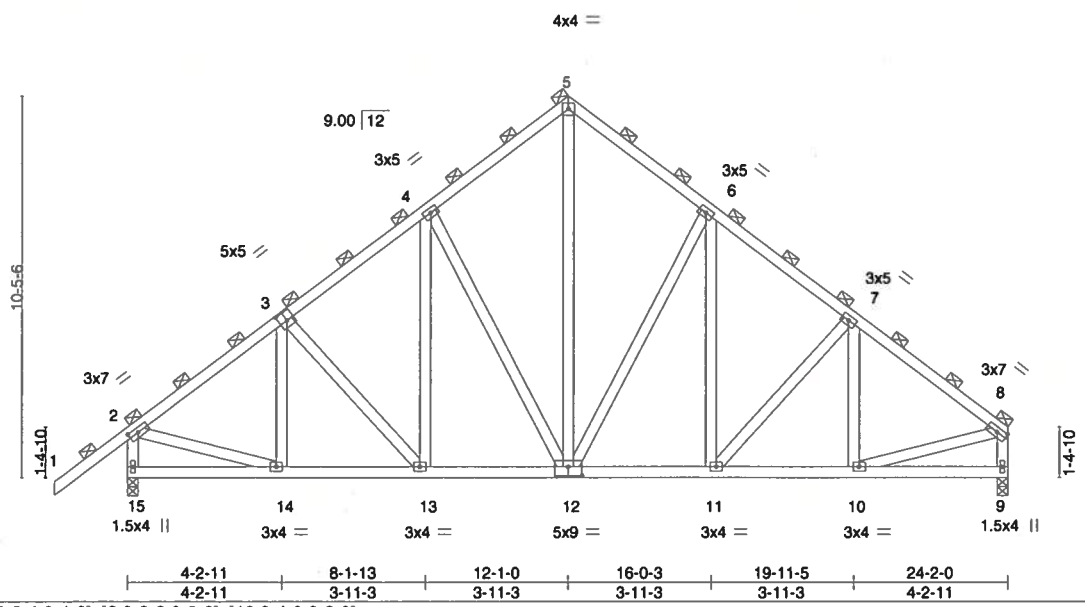
Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	E4	Common	1	3	T19295308

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:00 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-_BfuaarPkTiARAJsgUOP8E4t42wP?4G?yV0?93zprUr

-2-0-0	4-2-11	8-1-13	12-1-0	16-0-3	19-11-5	24-2-0
2-0-0	4-2-11	3-11-3	3-11-3	3-11-3	3-11-3	4-2-11

Scale: 3/16"=1'



4-2-11	8-1-13	12-1-0	16-0-3	19-11-5	24-2-0
4-2-11	3-11-3	3-11-3	3-11-3	3-11-3	4-2-11

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [3:0-2-8,0-3-0], [12:0-4-8,0-3-0]

LOADING (psf)		SPACING-	6-0-8	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.04	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.09	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 559 lb	FT = 0%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 15=4791/0-3-8, 9=4367/0-3-8
Max Horz 15=683(LC 11)
Max Uplift 15=-162(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4908/869, 3-4=-4974/1084, 4-5=-4568/1220, 5-6=-4567/1220, 6-7=-5010/1086, 7-8=-4966/863, 2-15=-4661/1046, 8-9=-4234/745
BOT CHORD 14-15=-560/662, 13-14=-550/3980, 12-13=-399/4009, 11-12=-397/3838, 10-11=-553/3807
WEBS 5-12=-679/1907, 6-12=-953/477, 6-11=-43/443, 7-11=-172/268, 7-10=-805/293, 4-12=-941/470, 4-13=-27/422, 3-13=-154/295, 3-14=-826/272, 2-14=-423/3843, 8-10=-473/3751

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-7-0 oc, Except member 12-6 2x4 - 1 row at 0-9-0 oc, member 6-11 2x4 - 1 row at 0-9-0 oc, member 11-7 2x4 - 1 row at 0-9-0 oc, member 7-10 2x4 - 1 row at 0-9-0 oc, member 12-4 2x4 - 1 row at 0-9-0 oc, member 4-13 2x4 - 1 row at 0-9-0 oc, member 13-3 2x4 - 1 row at 0-9-0 oc, member 3-14 2x4 - 1 row at 0-9-0 oc, member 14-2 2x4 - 1 row at 0-9-0 oc, member 10-8 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 162 lb uplift at joint 15.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3238 lb down and 468 lb up at 12-1-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-181, 2-5=-181, 5-8=-181, 9-15=-60
   Concentrated Loads (lb)
   Vert: 5=-3000(F)

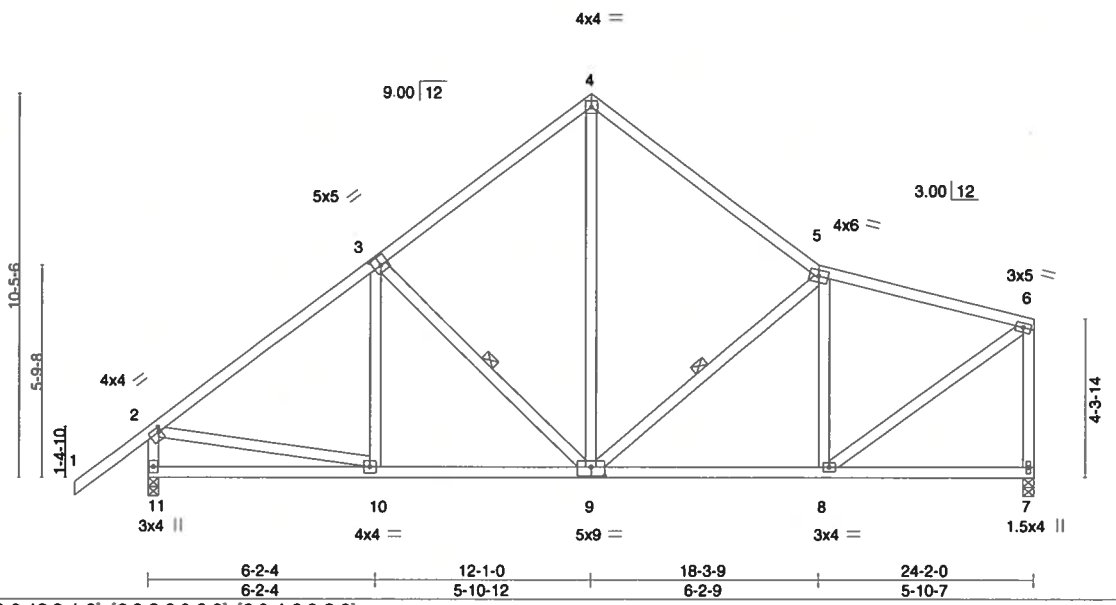
Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	E5	Roof Special	7	1	T19295309

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:01 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-SODGnws1Vnq13Jt2ECvehSc27SGDkXn9B9mYhVzprUq

-2-0-0	6-2-4	12-1-0	18-3-9	24-2-0
2-0-0	6-2-4	5-10-12	6-2-9	5-10-7

Scale = 1:63.1



6-2-4	12-1-0	18-3-9	24-2-0
6-2-4	5-10-12	6-2-9	5-10-7

Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [3:0-2-8,0-3-0], [9:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.09	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 163 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-9, 5-9

REACTIONS. (lb/size) 11=1090/0-3-8, 7=949/0-3-8
Max Horz 11=243(LC 11)
Max Uplift 11=-53(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1082/206, 3-4=-829/274, 4-5=-832/265, 5-6=-838/220, 2-11=-1029/285, 6-7=-897/220
BOT CHORD 10-11=-252/350, 9-10=-227/806, 8-9=-200/787
WEBS 3-9=-360/168, 4-9=-151/569, 5-9=-309/174, 5-8=-422/192, 2-10=-27/698, 6-8=-185/923

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 11.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	F1GE	Common Supported Gable	1	1	T19295310
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:01 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-SODGnws1Vnq13Jt2ECvehSc3nSLMkak9B9mYhVzprUq

-2-0-0 2-0-0 | 6-5-0 6-5-0 | 12-10-0 6-5-0

Scale = 1:33.5

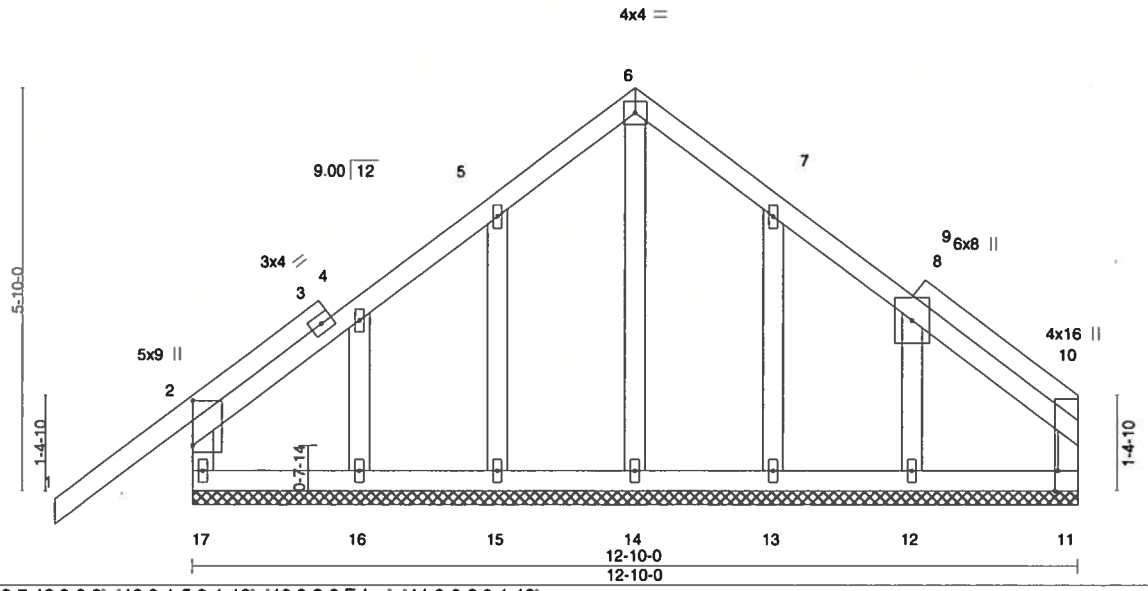

Plate Offsets (X,Y)-- [2:0-7-13,0-0-0], [10:0-1-5,0-1-12], [10:0-3-8,Edge], [11:0-0-0,0-1-12]

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)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.02	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-R							Weight: 83 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-10-0.
(lb) - Max Horz 17=133(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17, 11, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 11, 14, 15, 16, 13, 12 except 17=269(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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
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) 17, 11, 15, 16, 13, 12.

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

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	F2	Common	6	1	T19295311

Job Reference (optional)

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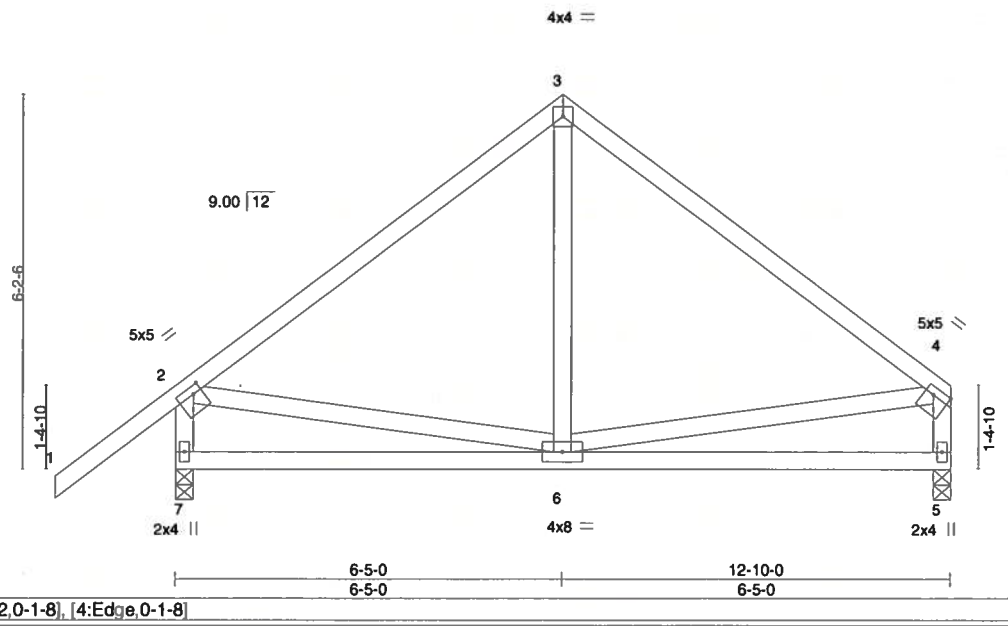

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [4:Edge,0-1-8]

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	0.36	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 76 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 7=641/0-3-8, 5=491/0-3-8
Max Horz 7=144(LC 11)
Max Uplift 7=-56(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-485/121, 3-4=-478/116, 2-7=-583/228, 4-5=-432/122

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	F3GIR	Common Girder	1	2	T19295312

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:11 2020 Page 1
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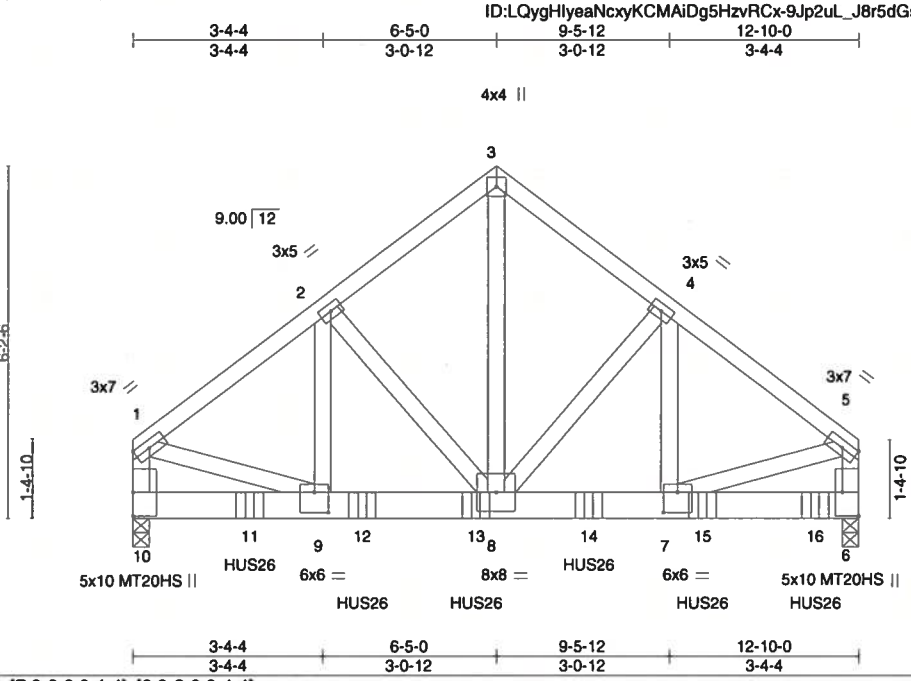

Plate Offsets (X,Y)-- [6:Edge,0-3-8], [7:0-3-0,0-4-4], [9:0-3-0,0-4-4]

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	0.34	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.06	7-8	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 192 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=4146/0-3-8, 6=4979/0-3-8
Max Horz 10=121(LC 24)
Max Uplift 10=-41(LC 8), 6=-50(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4235/71, 2-3=-3358/100, 3-4=-3358/100, 4-5=-4287/72, 1-10=-3656/53, 5-6=-3682/53
BOT CHORD 9-10=-105/315, 8-9=-29/3331, 7-8=-1/3372, 6-7=-6/314
WEBS 3-8=-77/3764, 4-8=-1096/58, 4-7=-24/1243, 2-8=-1063/57, 2-9=-22/1229, 1-9=-2/3248, 5-7=-3/3228

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
9) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 12-0-12 to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 6-10=-20

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

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 11=-1357(F) 12=-1357(F) 13=-1351(F) 14=-1351(F) 15=-1351(F) 16=-1355(F)

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	G1GE	Common Supported Gable	1	1	T19295313
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:13 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-5hxpJ10ZgTLKV9oMxj7SA_66FIRvX?Kwx0gB6pzprUe

-2-0-0 2-0-0 | 11-6-0 11-6-0 | 23-0-0 11-6-0 | 25-0-0 2-0-0

Scale = 1:55.3

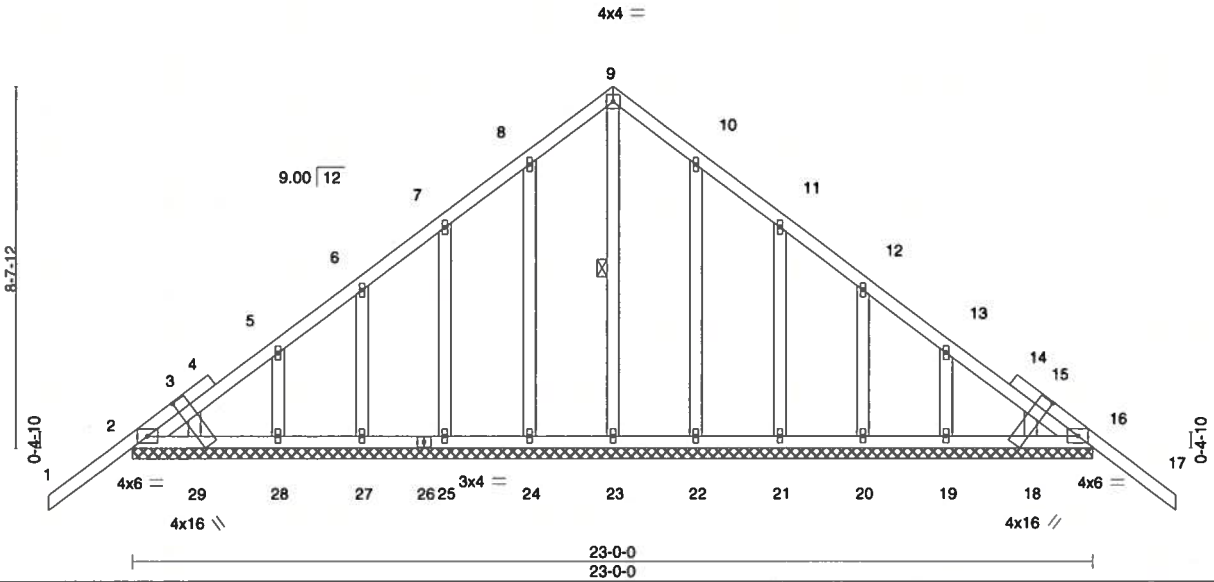


Plate Offsets (X,Y)-- [3:0-0-0,0-2-3], [15:0-0-0,0-2-3], [18:0-1-1,0-1-6], [18:0-3-1,0-11-6], [29:0-1-1,0-1-6], [29:0-3-1,0-11-6]

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	0.27	Vert(LL)	-0.02	17	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.03	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 156 lb	FT = 0%

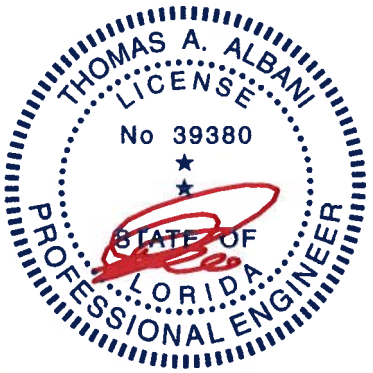
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 9-23

REACTIONS. All bearings 23-0-0.
(lb) - Max Horz 2=-188(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 27, 28, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 27, 28, 29, 22, 21, 20, 19, 18 except 2=257(LC 1), 16=257(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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 27, 28, 22, 21, 20, 19.



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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	M1GE	Monopitch Supported Gable	1	1	T19295314
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:13 2020 Page 1
ID:LQygHIyeaNcxyKCMAiDg5HzvRCx-5hxpJ10ZgTLKV9oMxj7SA_67VIPUX0bwx0gB6pzprUe

-2-0-0 6-3-8
2-0-0 6-3-8

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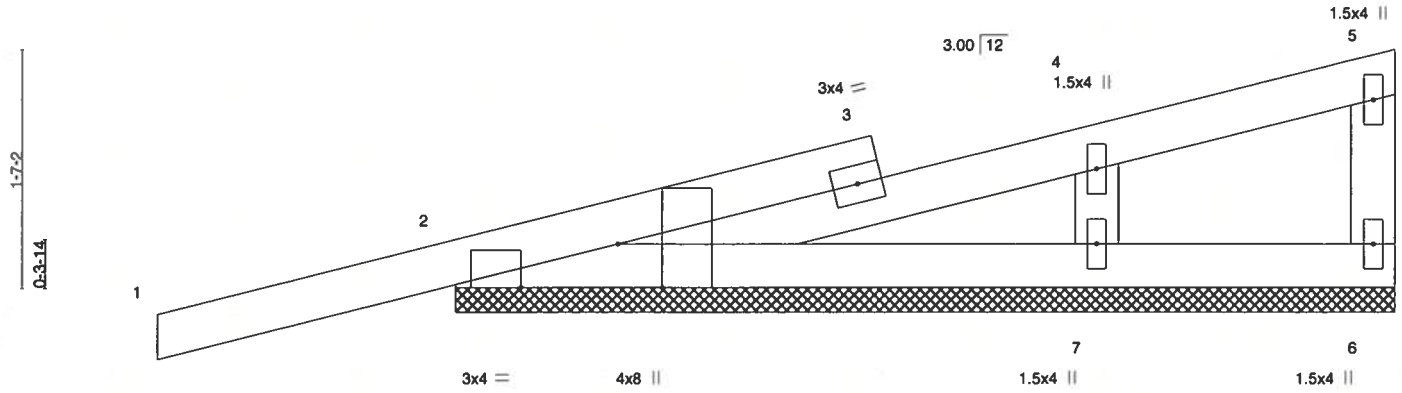

6-3-8
6-3-8

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,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	0.25	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 27 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=300/6-3-8, 6=29/6-3-8, 7=283/6-3-8
Max Horz 2=42(LC 9)
Max Uplift 2=-64(LC 12), 6=-6(LC 12)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
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) 2, 6.
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	M2	Monopitch	6	1	T19295315
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:14 2020 Page 1
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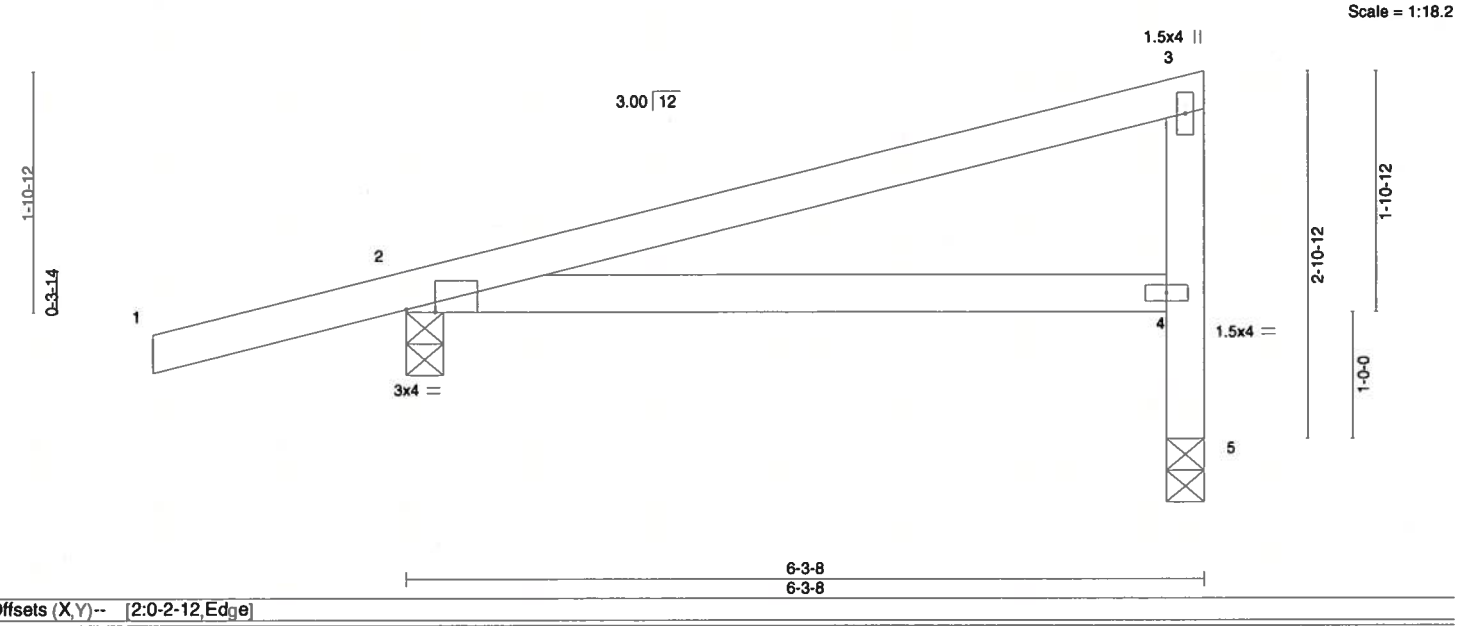

Plate Offsets (X,Y)-- [2:0-2-12,Edge]

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	0.42	Vert(LL)	0.14	4-8	>543	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.12	4-8	>632	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 26 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=385/0-3-8, 5=226/0-3-8
Max Horz 2=75(LC 11)
Max Uplift 2=-108(LC 12), 5=-47(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-226/259

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=108.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	M3	Monopitch	10	1	T19295316

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:15 2020 Page 1
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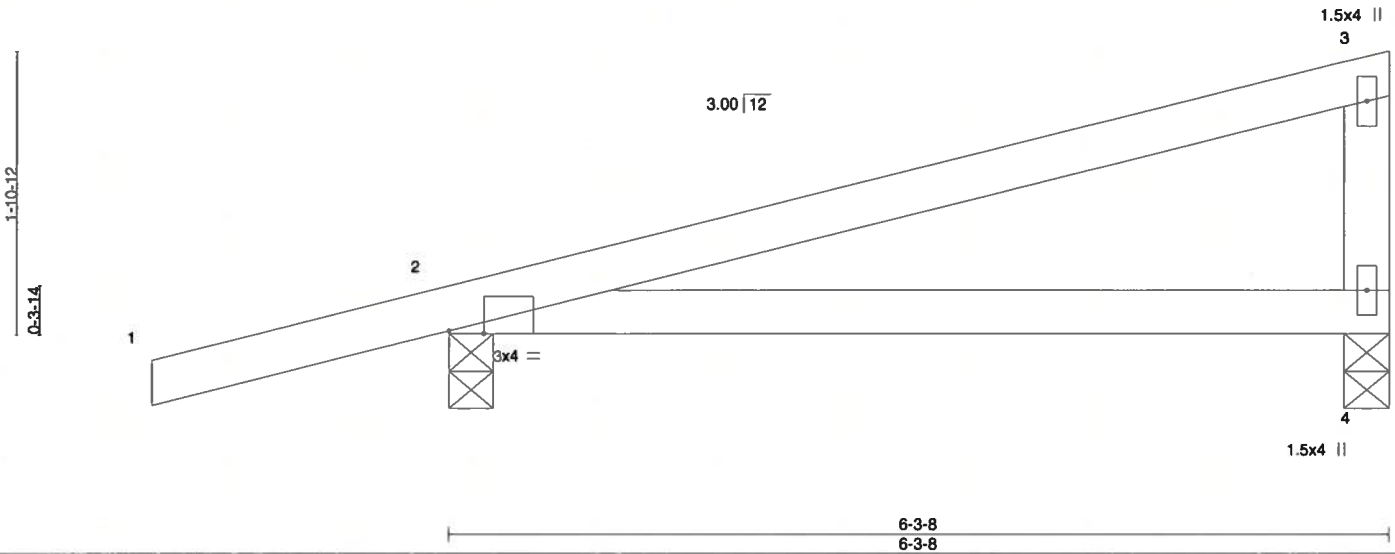
Scale = 1:15.5



6-3-8 / 6-3-8

Plate Offsets (X,Y)-- [2:0-2-12,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	0.42	Vert(LL)	0.14	4-7	>544	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.12	4-7	>633	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 24 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 4=226/0-3-8, 2=385/0-3-8
Max Horz 2=50(LC 11)
Max Uplift 4=-45(LC 12), 2=-110(LC 12)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=110.
5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	M4GE	Monopitch Supported Gable	1	1	T19295317

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:15 2020 Page 1
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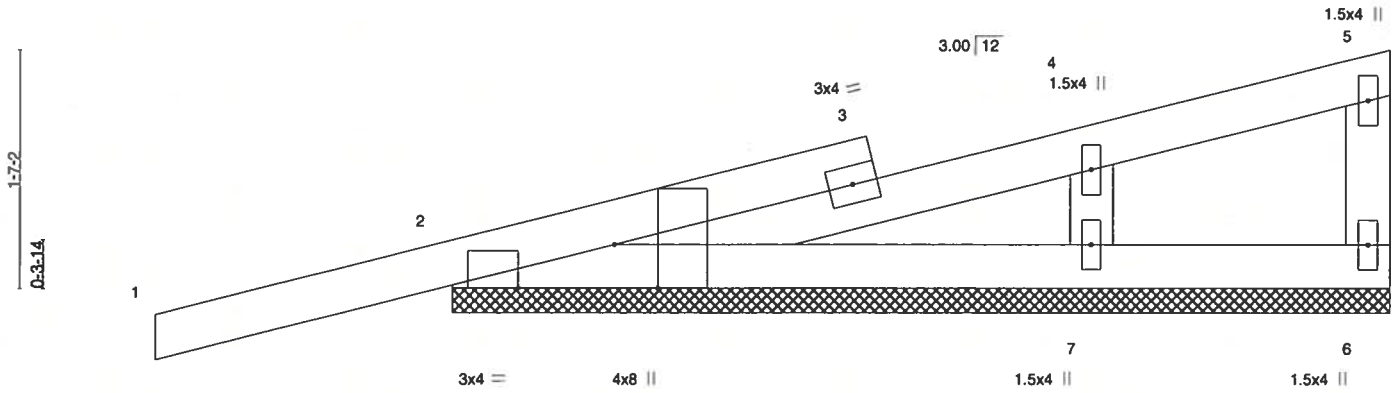
-2-0-0 2-0-0 | 6-3-8 6-3-8

Scale = 1:15.5



6-3-8 6-3-8

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,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	0.25	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 27 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=300/6-3-8, 6=29/6-3-8, 7=283/6-3-8
Max Horz 2=42(LC 9)
Max Uplift 2=-64(LC 12), 6=-6(LC 12)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
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) 2, 6.
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	M5GE	Monopitch Supported Gable	2	1	T19295318

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:16 2020 Page 1
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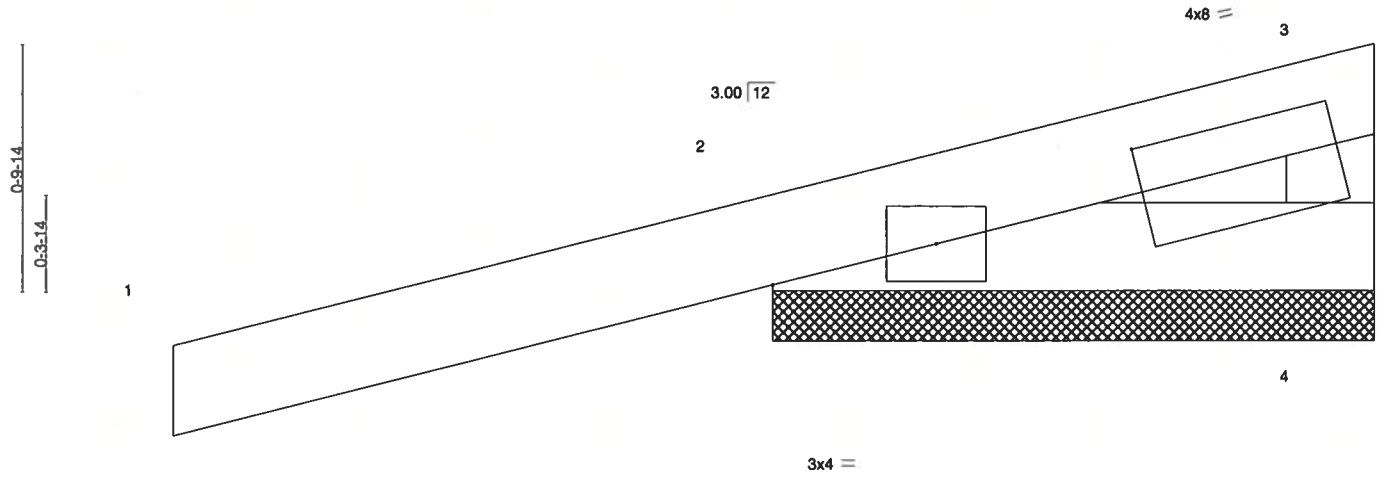

Plate Offsets (X,Y)-- [3:0-1-13,0-0-0], [3:1-3-3,0-1-12], [4:0-1-11,0-0-7]

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	0.25	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.02	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 10 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=9/2-0-0, 2=259/2-0-0
Max Horz 2=20(LC 8)
Max Uplift 2=-78(LC 12)
Max Grav 4=34(LC 3), 2=259(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
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) 2.

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

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	M6	Jack-Open	6	1	T19295319

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:17 2020 Page 1
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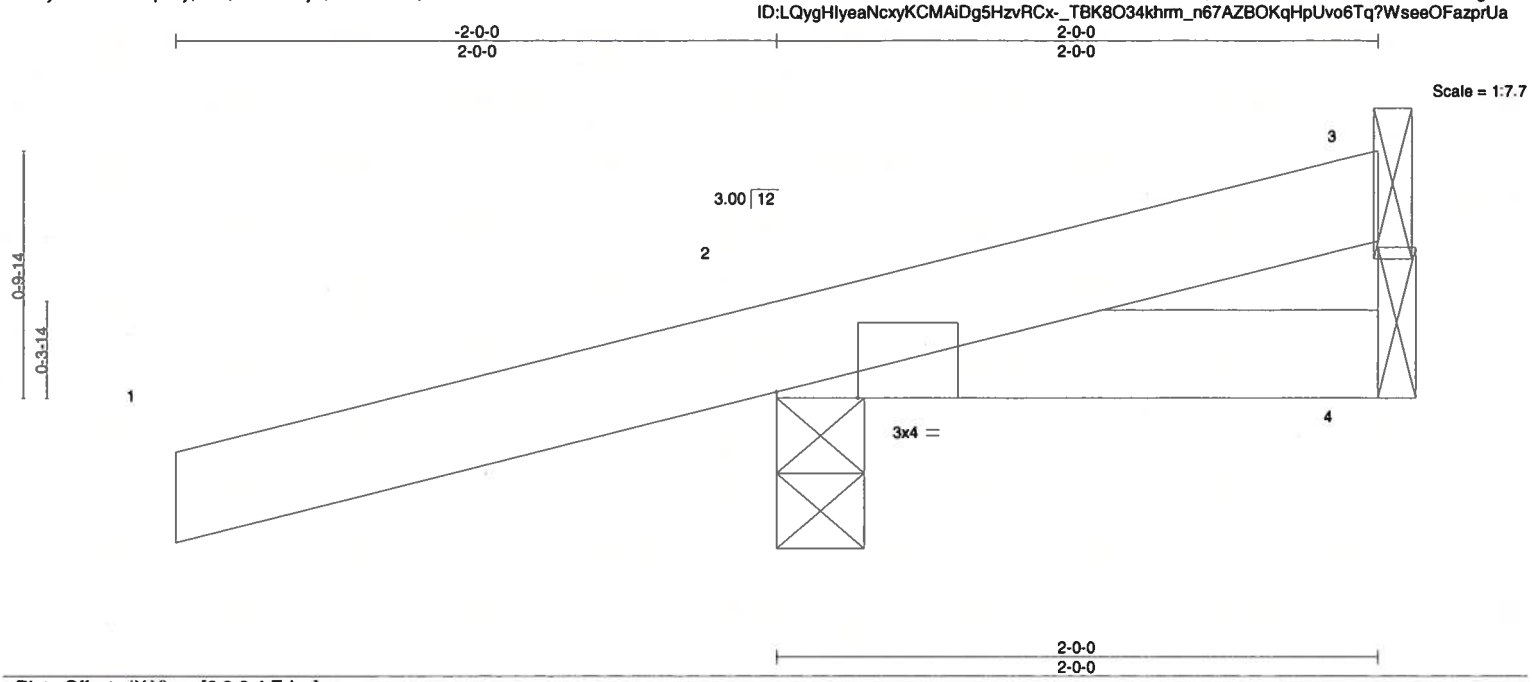

Plate Offsets (X,Y)-- [2:0-3-4,Edge]

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	0.25	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 9 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=260/0-3-8, 4=20/Mechanical
Max Horz 2=33(LC 12)
Max Uplift 2=-76(LC 12), 4=-3(LC 9)
Max Grav 2=260(LC 1), 4=40(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

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

January 31,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	PB01GE	GABLE	2	1	T19295320

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:17 2020 Page 1
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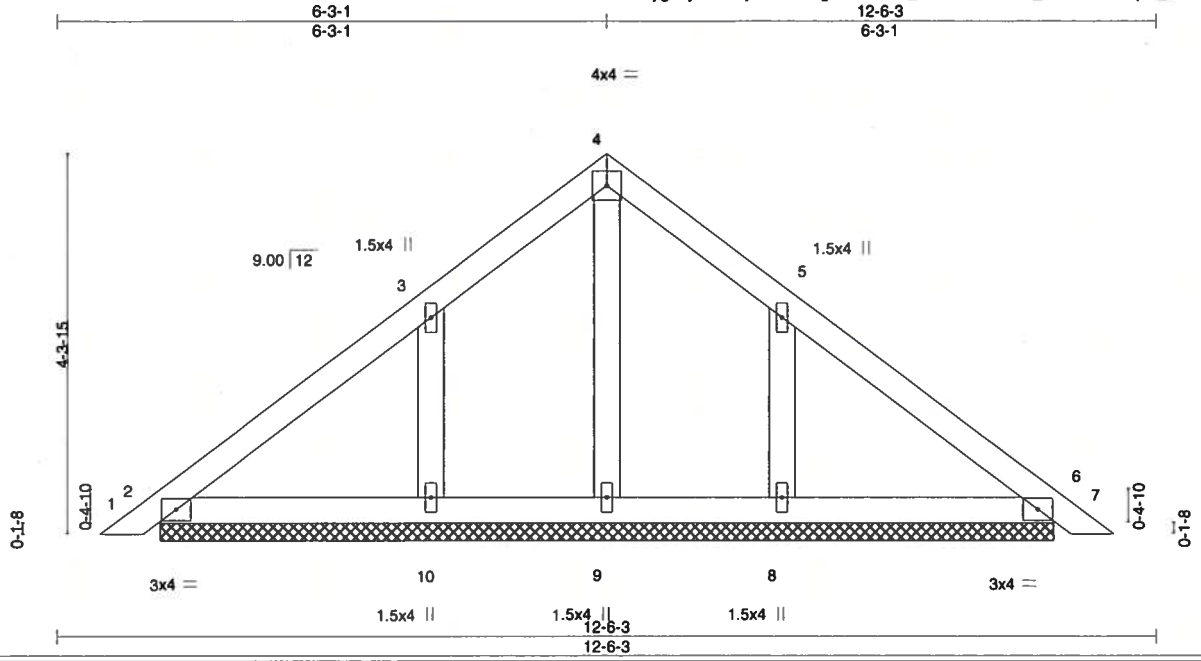

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 48 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-2-3.
(lb) - Max Horz 2=-80(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=269(LC 17), 8=268(LC 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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	PB02	Piggyback	17	1	T19295321
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:18 2020 Page 1
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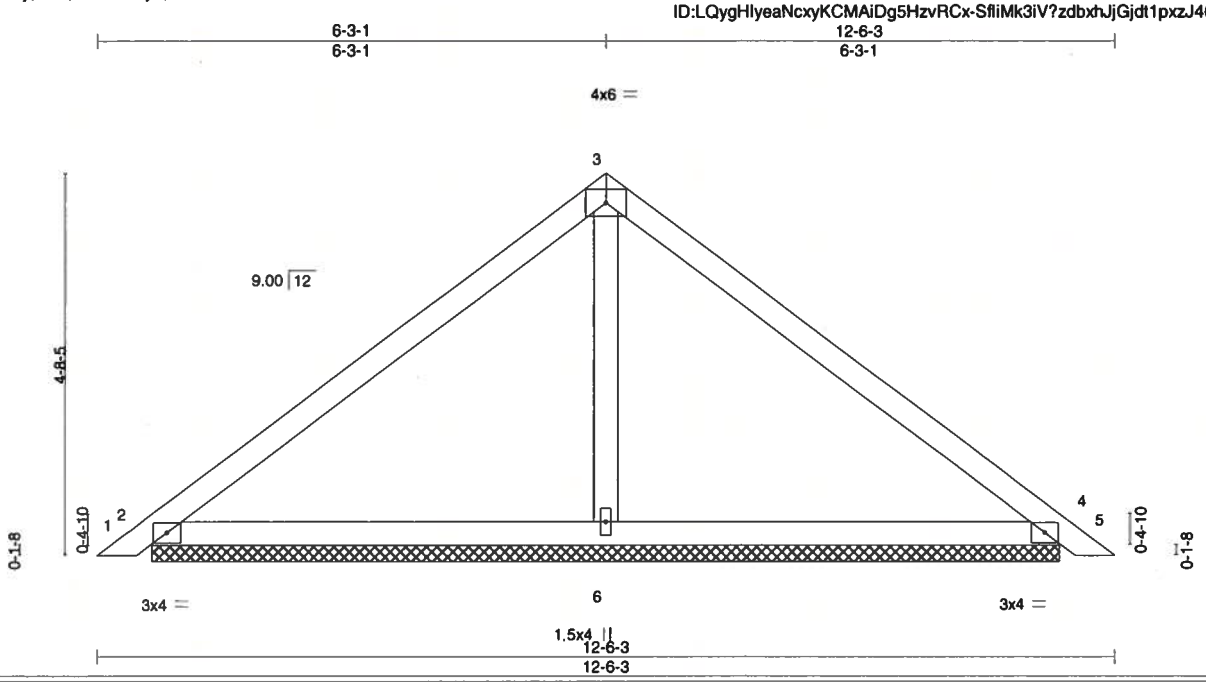

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	0.02	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 46 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=252/11-1-13, 4=252/11-1-13, 6=441/11-1-13
Max Horz 2=87(LC 11)
Max Uplift 2=-27(LC 12), 4=-27(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-267/81

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Thomas A. Albani PE No.39380
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6904 Parke East Blvd. Tampa FL 33610
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Beryl
BERYL	PB03	Piggyback	4	1	T19295322

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Dec 6 2019 MiTek Industries, Inc. Fri Jan 31 11:50:19 2020 Page 1
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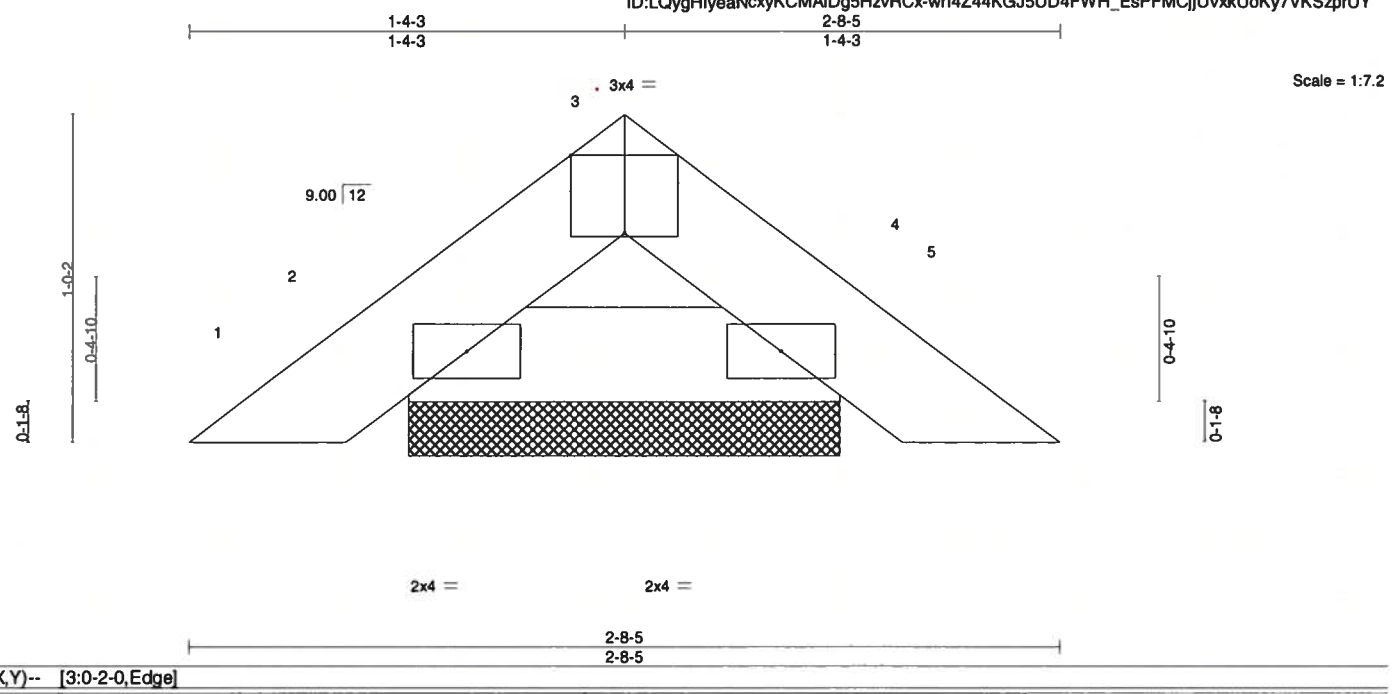

Plate Offsets (X,Y)-- [3:0-2-0,Edge]

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	0.01	Vert(LL)	-0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 7 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=80/1-4-0, 4=80/1-4-0
Max Horz 2=16(LC 11)
Max Uplift 2=-11(LC 12), 4=-11(LC 12)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

January 31,2020

MiTek
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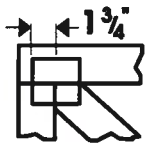
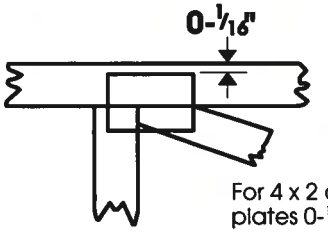
Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

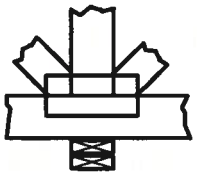
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

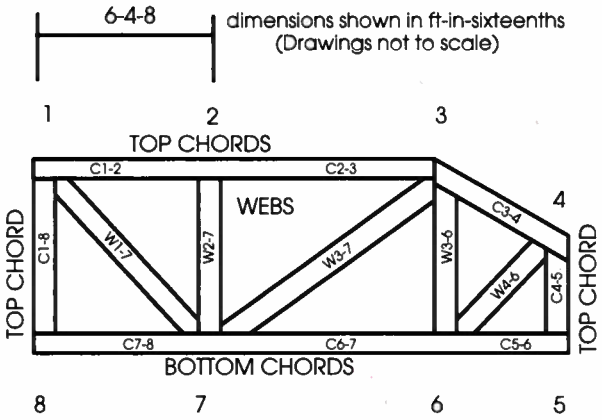


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

Residential System Sizing Calculation

Summary

Project Title:
Beryl James

Lake City, FL

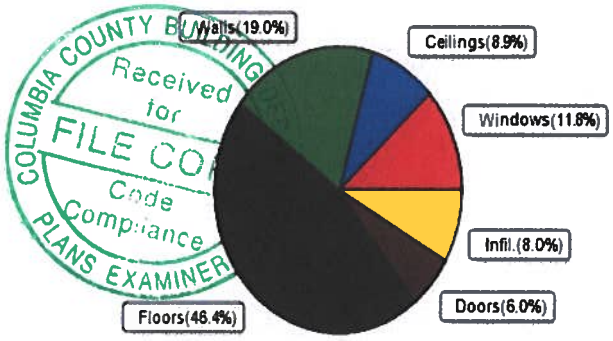
2/14/2020

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)	30	F	Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	**43850**	**Btuh**	**Total cooling load calculation**	**30789**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	109.5	48000	Sensible (SHR = 0.85)	150.5	40800
Heat Pump + Auxiliary(0.0kW)	109.5	48000	Latent	196.1	7200
			Total (Electric Heat Pump)	155.9	48000

WINTER CALCULATIONS

Winter Heating Load (for 3058 sqft)

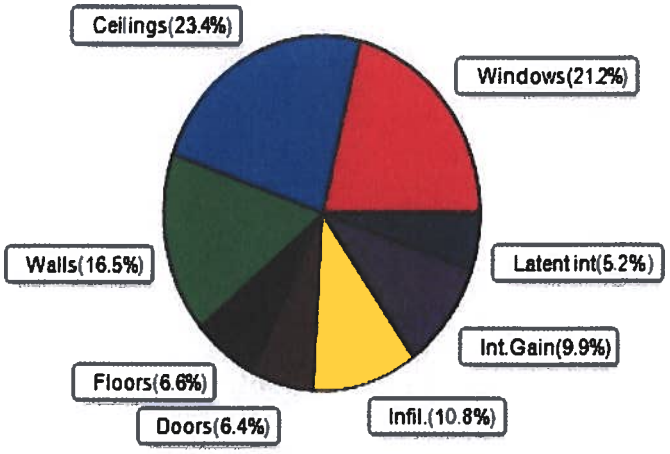
Load component			Load	
Window total	392	sqft	5174	Btuh
Wall total	2342	sqft	8314	Btuh
Door total	164	sqft	2624	Btuh
Ceiling total	3058	sqft	3896	Btuh
Floor total	See detail report		20337	Btuh
Infiltration	80	cfm	3505	Btuh
Duct loss			0	Btuh
Subtotal			**43850**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**43850**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 3058 sqft)

Load component			Load	
Window total	392	sqft	6532	Btuh
Wall total	2342	sqft	5075	Btuh
Door total	164	sqft	1968	Btuh
Ceiling total	3058	sqft	7207	Btuh
Floor total			2046	Btuh
Infiltration	60	cfm	1249	Btuh
Internal gain			3040	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**27117**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			2072	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**3672**	**Btuh**
TOTAL HEAT GAIN			**30789**	**Btuh**



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

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Beryl James

Lake City, FL

2/14/2020

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

Component Loads for Whole House

Window	Type* Panes	SHGC	U	InSh	IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2 NFRC	0.22, 0.33	No	No	N	1.5ft	1.3ft	36.0	0.0	36.0	11	11	392	Btuh
2	2 NFRC	0.22, 0.33	No	No	N	11.5f	1.3ft	96.0	0.0	96.0	11	11	1046	Btuh
3	2 NFRC	0.22, 0.33	No	No	W	1.5ft	1.3ft	30.0	0.0	30.0	11	27	824	Btuh
4	2 NFRC	0.22, 0.33	No	No	N	1.5ft	1.3ft	36.0	0.0	36.0	11	11	392	Btuh
5	2 NFRC	0.22, 0.33	No	No	N	1.5ft	1.3ft	12.0	0.0	12.0	11	11	131	Btuh
6	2 NFRC	0.22, 0.33	No	No	E	1.5ft	1.3ft	24.0	0.0	24.0	11	27	660	Btuh
7	2 NFRC	0.22, 0.33	No	No	E	1.5ft	1.3ft	12.0	0.0	12.0	11	27	330	Btuh
8	2 NFRC	0.22, 0.33	No	No	S	1.5ft	1.3ft	6.0	6.0	0.0	11	13	65	Btuh
9	2 NFRC	0.22, 0.33	No	No	S	7.5ft	1.3ft	72.0	72.0	0.0	11	13	785	Btuh
10	2 NFRC	0.22, 0.33	No	No	W	1.5ft	1.3ft	18.0	0.0	18.0	11	27	495	Btuh
11	2 NFRC	0.22, 0.33	No	No	W	1.5ft	1.3ft	8.0	0.0	8.0	11	27	220	Btuh
12	2 NFRC	0.22, 0.33	No	No	W	1.5ft	1.3ft	8.0	0.0	8.0	11	27	220	Btuh
13	2 NFRC	0.22, 0.33	No	No	W	1.5ft	1.3ft	18.0	0.0	18.0	11	27	495	Btuh
14	2 NFRC	0.22, 0.33	No	No	E	1.5ft	1.3ft	6.0	0.0	6.0	11	27	165	Btuh
15	2 NFRC	0.22, 0.33	No	No	S	1.5ft	1.3ft	10.0	10.0	0.0	11	13	109	Btuh
	Excursion												204	Btuh
	Window Total							392 (sqft)					6532	Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.09	13.0/0.0	79.5	2.3	180 Btuh
2	Frame - Wood - Ext	0.09	13.0/0.0	106.5	2.3	241 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.0	80.7	2.3	183 Btuh
4	Frame - Wood - Ext	0.09	13.0/0.0	90.0	2.3	204 Btuh
5	Frame - Wood - Ext	0.09	13.0/0.0	80.0	2.3	181 Btuh
6	Frame - Wood - Ext	0.09	13.0/0.0	84.0	2.3	190 Btuh
7	Frame - Wood - Ext	0.09	13.0/0.0	169.5	2.3	384 Btuh
8	Frame - Wood - Ext	0.09	13.0/0.0	241.5	2.3	547 Btuh
9	Frame - Wood - Ext	0.09	13.0/0.0	69.0	2.3	156 Btuh
10	Frame - Wood - Ext	0.09	13.0/0.0	50.0	2.3	113 Btuh
11	Frame - Wood - Ext	0.09	13.0/0.0	233.0	2.3	527 Btuh
12	Frame - Wood - Ext	0.09	13.0/0.0	87.0	2.3	197 Btuh
13	Frame - Wood - Ext	0.09	13.0/0.0	18.0	2.3	41 Btuh
14	Frame - Wood - Ext	0.09	13.0/0.0	191.0	2.3	432 Btuh
15	Frame - Wood - Ext	0.09	13.0/0.0	18.0	2.3	41 Btuh
16	Frame - Wood - Ext	0.09	13.0/0.0	91.5	2.3	207 Btuh
17	Frame - Wood - Ext	0.09	13.0/0.0	40.0	2.3	91 Btuh
18	Frame - Wood - Ext	0.09	13.0/0.0	79.3	2.3	180 Btuh
19	Frame - Wood - Ext	0.09	13.0/0.0	40.0	2.3	91 Btuh
20	Frame - Wood - Ext	0.09	13.0/0.0	102.0	2.3	231 Btuh
21	Frame - Wood - Adj	0.09	13.0/0.0	391.3	1.7	660 Btuh
	Wall Total			2342 (sqft)		5075 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	40.0	12.0	480 Btuh
2	Insulated - Exterior	40.0	12.0	480 Btuh
3	Insulated - Exterior	24.0	12.0	288 Btuh
4	Insulated - Exterior	40.0	12.0	480 Btuh
5	Insulated - Garage	20.0	12.0	240 Btuh
	Door Total	164 (sqft)		1968 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Beryl James

Lake City, FL

2/14/2020

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Unvented Attic/Light/Shingle	0.032	30.0/0.0	2678.0	2.36	6311 Btuh
2	Unvented Attic/Light/Shingle	0.032	30.0/0.0	380.0	2.36	896 Btuh
	Ceiling Total			3058 (sqft)		7207 Btuh
Floors	Type		R-Value	Size	HTM	Load
1	Slab On Grade		0.0	2678 (ft-perimeter)	0.0	0 Btuh
2	Raised Wood - Adj		0.0	380 (sqft)	5.4	2046 Btuh
	Floor Total			3058.0 (sqft)		2046 Btuh
				Envelope Subtotal:		22828 Btuh

Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.13	27142	1	60.0	1249 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		8	X 230	+	1200	3040 Btuh
				Sensible Envelope Load:		27117 Btuh
Duct load	Extremely sealed, Supply(R6.0-Condi), Return(R6.0-Condi)			(DGM of 0.000)		0 Btuh
				Sensible Load All Zones		**27117 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Beryl James

Lake City, FL

2/14/2020

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**27117 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**27117 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**27117 Btuh**
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	2072 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3672 Btuh**
	TOTAL GAIN	**30789 Btuh**

EQUIPMENT

1. Central Unit	#	48000 Btuh

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

Version 8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Beryl James
Lake City, FL Building Type: User

2/14/2020

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

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.22	Vinyl	0.33	N	36.0	13.2	475 Btuh
2	2, NFRC 0.22	Vinyl	0.33	N	96.0	13.2	1267 Btuh
3	2, NFRC 0.22	Vinyl	0.33	W	30.0	13.2	396 Btuh
4	2, NFRC 0.22	Vinyl	0.33	N	36.0	13.2	475 Btuh
5	2, NFRC 0.22	Vinyl	0.33	N	12.0	13.2	158 Btuh
6	2, NFRC 0.22	Vinyl	0.33	E	24.0	13.2	317 Btuh
7	2, NFRC 0.22	Vinyl	0.33	E	12.0	13.2	158 Btuh
8	2, NFRC 0.22	Vinyl	0.33	S	6.0	13.2	79 Btuh
9	2, NFRC 0.22	Vinyl	0.33	S	72.0	13.2	950 Btuh
10	2, NFRC 0.22	Vinyl	0.33	W	18.0	13.2	238 Btuh
11	2, NFRC 0.22	Vinyl	0.33	W	8.0	13.2	106 Btuh
12	2, NFRC 0.22	Vinyl	0.33	W	8.0	13.2	106 Btuh
13	2, NFRC 0.22	Vinyl	0.33	W	18.0	13.2	238 Btuh
14	2, NFRC 0.22	Vinyl	0.33	E	6.0	13.2	79 Btuh
15	2, NFRC 0.22	Vinyl	0.33	S	10.0	13.2	132 Btuh
	Window Total				392.0(sqft)		5174 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	80	3.55	282 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	107	3.55	378 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	81	3.55	286 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	90	3.55	320 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	80	3.55	284 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	84	3.55	298 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	170	3.55	602 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	242	3.55	857 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	69	3.55	245 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	50	3.55	178 Btuh
11	Frame - Wood	- Ext	(0.089)	13.0/0.0	233	3.55	827 Btuh
12	Frame - Wood	- Ext	(0.089)	13.0/0.0	87	3.55	309 Btuh
13	Frame - Wood	- Ext	(0.089)	13.0/0.0	18	3.55	64 Btuh
14	Frame - Wood	- Ext	(0.089)	13.0/0.0	191	3.55	678 Btuh
15	Frame - Wood	- Ext	(0.089)	13.0/0.0	18	3.55	64 Btuh
16	Frame - Wood	- Ext	(0.089)	13.0/0.0	92	3.55	325 Btuh
17	Frame - Wood	- Ext	(0.089)	13.0/0.0	40	3.55	142 Btuh
18	Frame - Wood	- Ext	(0.089)	13.0/0.0	79	3.55	282 Btuh
19	Frame - Wood	- Ext	(0.089)	13.0/0.0	40	3.55	142 Btuh
20	Frame - Wood	- Ext	(0.089)	13.0/0.0	102	3.55	362 Btuh
21	Frame - Wood	- Adj	(0.089)	13.0/0.0	391	3.55	1389 Btuh
	Wall Total				2342(sqft)		8314 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Beryl James
Lake City, FL Building Type: User

2/14/2020

Doors	Type	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)		40	16.0	640 Btuh
2	Insulated - Exterior,	n	(0.400)		40	16.0	640 Btuh
3	Insulated - Exterior,	n	(0.400)		24	16.0	384 Btuh
4	Insulated - Exterior,	n	(0.400)		40	16.0	640 Btuh
5	Insulated - Garage,	n	(0.400)		20	16.0	320 Btuh
	Door Total				164(sqft)		2624Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Unvent Attic/L/Shing		(0.032)	30.0/0.0	2678	1.3	3411 Btuh
2	Unvent Attic/L/Shing		(0.032)	30.0/0.0	380	1.3	484 Btuh
	Ceiling Total				3058(sqft)		3896Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	307.0 ft(perim.)	47.2	14490 Btuh
2	Raised Wood - Adj		(0.385)	0.0	380.0 sqft	15.4	5847 Btuh
	Floor Total				3058 sqft		20337 Btuh
					Envelope Subtotal:		40345 Btuh
Infiltration	Type	Wholehouse ACH		Volume(cuft)	Wall Ratio	CFM=	
	Natural	0.18		27142	1.00	80.0	3505 Btuh
Duct load	Extremely sealed, R6.0, Supply(Con), Return(Con)					(DLM of 0.000)	0 Btuh
All Zones	**Sensible Subtotal All Zones**						**43850 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	43850 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	43850 Btuh

EQUIPMENT

1. Electric Heat Pump	#	48000 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Beryl James
Lake City, FL Building Type: User

2/14/2020

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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