

Columbia County New Building Permit Application

For Office Use Only Application # 1908-38 Date Received 8/13/19 By MG Permit # 38531
 Zoning Official TC/LH Date 8-20-19 Flood Zone X Land Use AG Zoning A-3
 FEMA Map # N/A Elevation N/A MFE 1' Above River N/A Plans Examiner TC.. Date 8-20-19
 Comments Floor 1' Above Rd. Front 30' Sides 25' Rear 25'
☒ NOC ☒ EH ☐ Deed or ☐ 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. 19-0609 OR City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) Max L. Bass Phone 386-364-7530

Address 23883 CR 49 OBrien, Fla 32071

Owners Name Donnie & Sheila Blackwell Phone 386-590-2603

911 Address 237 Hill Creek Drive Lake City 32025

Contractors Name Max L. Bass Phone 386-364-7530

Address 23883 CR 49 OBrien FL 32071

Contractor Email mlbass7@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address Same as owner

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Mark Pizzanway Eng 163 SW Midtown place #103 LSC

Mortgage Lenders Name & Address First Federal Bank 4705 US Hwy 90 W LC FL 32055

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

Property ID Number 32-45-17-09116-130 Estimated Construction Cost 202,000-

Subdivision Name Hills at Rose Creek Lot 30 Block _____ Unit _____ Phase 2

Driving Directions from a Major Road 415 to Tustenuggee TR to SW Hill Creek Pa
TR to Lot on L

Construction of Wood Frame SFD Commercial OR ☒ Residential

Proposed Use/Occupancy SFR Number of Existing Dwellings on Property 0

Is the Building Fire Sprinkled? _____ 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 230 Side 104 Side 104 Rear 425

Number of Stories 1 Heated Floor Area 2598 Total Floor Area 3363 Acreage 5

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

8/27 - Spoke w/ Max, still need EH & well letter. He will send well letter & working on getting EH

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.

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

Sheila Blackwell
Print Owners Name

Sheila Blackwell
Owners Signature

****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.

Max I. Bon
Contractor's Signature

Contractor's License Number RC28281195
Columbia County
Competency Card Number 601 ✓

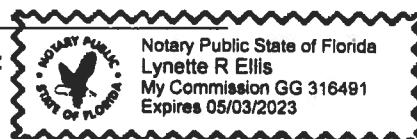
Affirmed under penalty of perjury to by the Contractor and subscribed before me this 12th day of August 2019.

Personally known ☒ or Produced Identification _____

Lynette R. Ellis

State of Florida Notary Signature (For the Contractor)

SEAL:





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

PERMIT NO. 4-0609
DATE PAID: 8/13/14
FEE PAID: \$425.00
RECEIPT #: 1428444

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Innovative
☐ Repair ☐ Abandonment ☐ Temporary ☐

APPLICANT: Donnie & Sheila BlackwellAGENT: Max L. BassTELEPHONE: 386-364-7530MAILING ADDRESS: 23883 CR 49 O'Brien Pl 32071

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: 30 BLOCK: _____ SUBDIVISION: Hills at Rose Creek PLATTED: _____PROPERTY ID #: 32-45-17-09116-130 ZONING: _____ I/M OR EQUIVALENT: [Y] (N)PROPERTY SIZE: 5 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ <=2000GPD ☐ >2000GPDIS SEWER AVAILABLE AS PER 381.0065, FS? ☒ Y (N) DISTANCE TO SEWER: _____ FTPROPERTY ADDRESS: 237 Hill Creek Drive Lake CityDIRECTIONS TO PROPERTY: San 41 to Rustenburg TR to Hill Creek Drive TL to property on L

BUILDING INFORMATION

[☒ RESIDENTIAL [] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	<u>SFR</u>	<u>4</u>	<u>Marked 2598</u>	
2				
3				
4				

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

SIGNATURE: Max L. BassDATE: 8-7-19

DANIEL & GORE, LLC
 Professional Surveying and Mapping
 P.O. BOX 1501
 LAKE CITY, FL 32005
 PH: (386) 725-0015
 FAX: (386) 725-0025
 E-MAIL: info@danielandgore.com
 LICENSE NO. 18178

NOTES:

1. BEARINGS ARE BASED ON THE EAST LINE OF LOT 30, HILLS AT ROSE CREEK, PHASE 2, BEING S 13°31'24" W, ASSUMED.
2. ONLY THOSE VISIBLE INTERIOR SUBROGRAMENTS AND IMPROVEMENTS PERTINENT TO THE SUBJECT PROPERTY HAVE BEEN LOCATED AS SHOWN HEREON. EXCEPTION IS MADE HEREON TO UNDERGROUND FACILITIES AND OTHER IMPROVEMENTS NOT VISIBLE OR KNOWN AT DATE OF SURVEY.
3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR TITLE POLICY. THEREFORE, EXCEPTION IS MADE HEREON REGARDING EASEMENTS, RESERVATIONS AND RESTRICTIONS OF RECORD NOT PROVIDED BY THE CLIENT.
4. SCALE AND GRAPHIC LOCATION OF FENCES AND UTILITY POLES, IF ANY, MAY BE EXAGGERATED FOR CLARITY.
5. NO ATTEMPT WAS MADE BY THIS SURVEY TO DETERMINE IF THE SUBJECT PROPERTY LIES WITHIN A FLOOD PRONE AREA.

LOT 31

LOT 27
HILLS AT
ROSE CREEKLOT 28
HILLS AT
ROSE CREEK

LEGEND

- DENOTES 3/4" IRON ROD & CAP SET (FLATTOP)
- DENOTES IRON PIPE OR IRON ROD (BENT)
- DENOTES 1/4" CONCRETE MONUMENT SET (LARGE)
- DENOTES 1/4" CONCRETE MONUMENT SET (SMALL)
- DENOTES 1/4" CONCRETE MONUMENT SET (ROUND)
- DENOTES 1/4" CONCRETE MONUMENT SET (SQUARE)
- DENOTES 1/4" CONCRETE MONUMENT SET (TRIANGLE)
- DENOTES 1/4" CONCRETE MONUMENT SET (HEXAGON)
- DENOTES 1/4" CONCRETE MONUMENT SET (OCTAGON)
- DENOTES 1/4" CONCRETE MONUMENT SET (STAR)
- DENOTES 1/4" CONCRETE MONUMENT SET (CROSS)
- DENOTES 1/4" CONCRETE MONUMENT SET (HEART)
- DENOTES 1/4" CONCRETE MONUMENT SET (MOON)
- DENOTES 1/4" CONCRETE MONUMENT SET (SUN)
- DENOTES 1/4" CONCRETE MONUMENT SET (FLAME)
- DENOTES 1/4" CONCRETE MONUMENT SET (WAVE)
- DENOTES 1/4" CONCRETE MONUMENT SET (SNAKE)
- DENOTES 1/4" CONCRETE MONUMENT SET (EAGLE)
- DENOTES 1/4" CONCRETE MONUMENT SET (HORSE)
- DENOTES 1/4" CONCRETE MONUMENT SET (COW)
- DENOTES 1/4" CONCRETE MONUMENT SET (SHEEP)
- DENOTES 1/4" CONCRETE MONUMENT SET (GOAT)
- DENOTES 1/4" CONCRETE MONUMENT SET (PIG)
- DENOTES 1/4" CONCRETE MONUMENT SET (CHICKEN)
- DENOTES 1/4" CONCRETE MONUMENT SET (DUCK)
- DENOTES 1/4" CONCRETE MONUMENT SET (FISH)
- DENOTES 1/4" CONCRETE MONUMENT SET (TURTLE)
- DENOTES 1/4" CONCRETE MONUMENT SET (SNAKE)
- DENOTES 1/4" CONCRETE MONUMENT SET (EAGLE)
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- DENOTES 1/4" CONCRETE MONUMENT SET (DUCK)
- DENOTES 1/4" CONCRETE MONUMENT SET (FISH)
- DENOTES 1/4" CONCRETE MONUMENT SET (TURTLE)

SCALE: 1" = 100'

SURVEY FOR: SHEILA BLACKWELL

02/18/2019

DATE OF CERTIFICATE

02/06/2019

DATE OF FIELD SURVEY

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WaterBoy Well Repair & Drilling

19288 127th Dr.
O'Brien, FL 32071
(386)330-6099
Waterboywellrepair@yahoo.com

August 14, 2019

To Whom It May Concern,

We plan to install a 4" PVC Well
at: 32-46-17-09116-130 / Lot 30 Hills PT Rose Creek Sub Well
to include: 1hp, 18gpm submersible Pump, 1 1/2" drop pipe, 81 gallon bladder
tank and backflow prevention. SRWMD permit and completion report once
available.

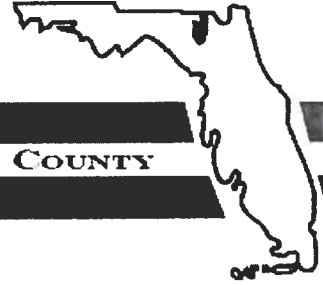
Sincerely,

A large, stylized handwritten signature in black ink, appearing to read 'W. Shuler'.

William Shuler-License #5002

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

*Blackwell
1908-38*



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: **4/5/2019 3:21:31 PM**
Address: **237 SW HILL CREEK Dr**
City: **LAKE CITY**
State: **FL**
Zip Code **32025**

Parcel ID **09116-130**

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**

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1908-38

JOB NAME Blackwell

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

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

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

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

ELECTRICAL <input checked="" type="checkbox"/>	Print Name <u>Matt Burns</u> Signature <u>Matt A Burns</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# <u>309</u>	Company Name: <u>Burns Electric</u> License #: <u>EC13006531</u> Phone #: <u>386-365-3688</u>	
MECHANICAL/A/C <input checked="" type="checkbox"/>	Print Name <u>Jan Touchton</u> Signature <u>Jan Touchton</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# <u>1731</u>	Company Name: <u>Touchton's Heating & Air</u> License #: <u>CAC058741</u> Phone #: <u>386362-4509</u>	
PLUMBING/GAS <input checked="" type="checkbox"/>	Print Name <u>Cody Barrs</u> Signature <u>Cody Barrs</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# <u>714</u>	Company Name: <u>Barrs Plumbing</u> License #: <u>CF57219</u> Phone #: <u>386-623-0509</u>	
ROOFING <input checked="" type="checkbox"/>	Print Name <u>Max L. Bass</u> Signature <u>Max L. Bass</u>	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# <u>661</u>	Company Name: <u>B & B Homes</u> License #: <u>RR28281145</u> Phone #: <u>386-364-7530</u>	
SHEET METAL <input type="checkbox"/>	Print Name _____ Signature _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
FIRE SYSTEM/SPRINKLER <input type="checkbox"/>	Print Name _____ Signature _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
SOLAR <input type="checkbox"/>	Print Name _____ Signature _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# _____	Company Name: _____ License #: _____ Phone #: _____	
STATE SPECIALTY <input type="checkbox"/>	Print Name _____ Signature _____	Need <input type="checkbox"/> Lic <input type="checkbox"/> Liab <input type="checkbox"/> W/C <input type="checkbox"/> EX <input type="checkbox"/> DE
CC# _____	Company Name: _____ License #: _____ Phone #: _____	

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

Inst: 201912017441 Date: 07/26/2019 Time: 11:24AM
Page 1 of 3 B: 1389 P: 2583, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy Clerk

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: **Donnie D Blackwell, Jr, Sheila S Blackwell**
332 SE Mojave Way, Lake City, FL 32025
Interest in property: **[X] Fee Simple**
Name and address of fee simple title holder (if other than Owner): **[]**
4. Contractor (name and address): **B&B Homes New Home Builders, Inc**
23883 CR 49 O'Brien, Florida 32071
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 Statutes.
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.



Mortgage Cadence Document Center © 9665 01/17



* M C N O T C C M N T *


Borrower - Donnie D Blackwell, Jr

(Seal)


Borrower - Sheila S Blackwell

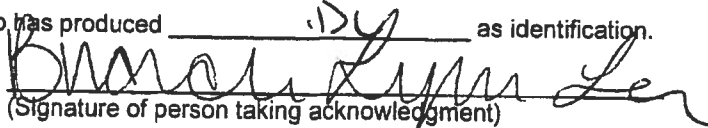
(Seal)

State of Florida

County of Columbia

The foregoing instrument was acknowledged before me this 25th day of July,
20 19,
by Donnie D Blackwell, Jr and Sheila S Blackwell

who is personally known to me or who has produced ID as identification.

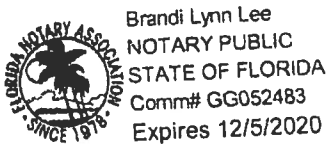

(Signature of person taking acknowledgment)

(Name typed printed or stamped)

(Title or Rank)

(Serial Number if any)

My Commission expires : _____



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.


Borrower - Donnie D Blackwell, Jr

7/25/19
Date


Borrower - Sheila S Blackwell

7/25/19
Date



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Page 2 of 2

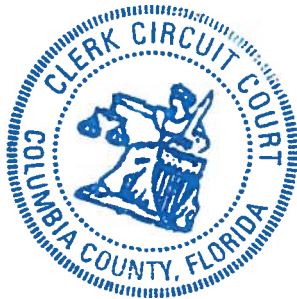


★ M C N O T C C M N T ★

ATT# 9042

Exhibit "A"

Lot 30, HILLS AT ROSE CREEK, PHASE 2, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 154-155 of the Public Records of COLUMBIA COUNTY, FLORIDA.



STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DEWITT GASON, CLERK OF COURTS

By: Donnae Row
Deputy Clerk

Date: July 26, 2019

Prepared by:
Michael H. Harrell
Abstract Trust Title, LLC
283 NW Cole Ter
Lake City, FL 32055

Inst: 201912017439 Date: 07/26/2019 Time: 11:24AM
Page 1 of 1 B: 1389 P: 2556 P: DeWitt Cason, Clerk of Court
Columbia County, By: BD
Deputy Clerk Doc Stamp-Deed: 0.70

ATT# 4-9042

Warranty Deed

Individual to Individual

THIS WARRANTY DEED made the 23rd day of July, 2019, by Debra Sapp, hereinafter called the grantor, to Donnie D. Blackwell, Jr. and His Wife, Sheila Blackwell A/K/A Sheila S. Blackwell whose post office address is 332 SE Mojave Way, Lake City, FL 32025 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 30, HILLS AT ROSE CREEK, PHASE 2, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 154-155 of the Public Records of COLUMBIA COUNTY, FLORIDA.

The above described property is not the Homestead of Debra Sapp, nor has it ever been the Homestead of same, who in fact resides at: 6616 193 RD, Live Oak, FL 32060.

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

Kimberly M. Webb
Witness

Kimberly M. Webb
Printed Name

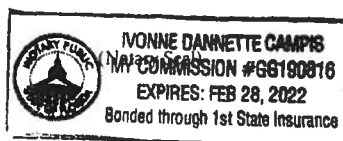
Elizabeth Burnsed
Witness

Elizabeth Burnsed
Printed Name

Debra Sapp
Debra Sapp

STATE OF FLORIDA
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 23rd day of July, 2019 by Debra Sapp personally known to me or, if not personally known to me, who produced 5100-171-54-631-D for identification and who did not take an oath



Ivonne Dannelle Campbell
Notary Public

Legend

Roads

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

Parcels

SectionTownshipAndRange

LidarElevations



2018Aerials

DevZones1

Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Aug 21 2019 16:26:49 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 32-4S-17-09116-130

Owner: ABEYRATNE ANURA T & RITA M

Subdivision: HILLS AT ROSE CREEK PHASE 2

Lot:

Acres: 5.033998

Deed Acres: 5.01 Ac

District: District 4 Toby Witt

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

All data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance, and update.



COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2017 EFFECTIVE 1 JANUARY 2018
AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS, FBC 1609.3.1 THRU 1609.3.3.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES
Revised 7/1/18

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

Items to Include-
Each Box shall be
Circled as
Applicable

GENERAL REQUIREMENTS:

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Select From Drop down

1	Two (2) complete sets of plans containing the following:	<input checked="" type="checkbox"/>			
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	<input checked="" type="checkbox"/>			
3	Condition space (Sq. Ft.) 2598	Total (Sq. Ft.) under roof 3363	Yes	No	NA

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

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 Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA
Select From Drop down				
9	Basic wind speed (3-second gust), miles per hour	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/m ²), to be used for the design of exterior component, cladding materials not specifi ally 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	NA		
18	Location and size of skylights with Florida Product Approval	NA		
19	Number of stories	Yes		
20	Building height from the established grade to the roofs highest peak	Yes		

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	Yes		
22	Raised floor surfaces located more than 30 inches above the floor or grade	NA		
23	All exterior and interior shear walls indicated	Yes		
24	Shear wall opening shown (Windows, Doors and Garage doors)	Yes		
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section 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		
26	Safety glazing of glass where needed	Yes		
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	NA		
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	NA		
29	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 Circled as Applicable
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FBCR 403: Foundation Plans

Select From Drop down

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

FBCR 506: CONCRETE SLAB ON GRADE

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

FBCR 318: PROTECTION AGAINST TERMITES

37	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides	Yes		
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FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

38	Show all materials making up walls, wall height, and Block size, mortar type	Yes		
39	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

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

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

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

53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	Yes		
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown	Yes		
55	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	Yes		
56	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	Yes		
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	Yes		
58	Indicate where pressure treated wood will be placed	Yes		
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	Yes		
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	Yes		

FBCR :ROOF SYSTEMS:

61	Truss design drawing shall meet section FBC-R 802.10. 1 Wood trusses	Yes		
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer	Yes		
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	Yes		
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	Yes		
65	Provide dead load rating of trusses	Yes		

FBCR 802:Conventional Roof Framing Layout

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

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

72	Include all materials which will make up the roof assembles covering	Yes		
73	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.**

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

Select from Drop Down

74	Show the insulation R value for the following areas of the structure	Yes		
75	Attic space	Yes		
76	Exterior wall cavity	Yes		
77	Crawl space	NA		

HVAC information

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

Plumbing Fixture layout shown

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

Private Potable Water

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

Electrical layout shown including

86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	Yes		
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	Yes		
88	Show the location of smoke detectors & Carbon monoxide detectors	Yes		
89	Show service panel, sub-panel, location(s) and total ampere ratings	Yes		
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	Yes		
91	Appliances and HVAC equipment and disconnects	Yes		
92	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	Yes		

Notice Of Commencement:

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

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.				
<i>Select from Drop down</i>				
93	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	Yes		
94	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	Yes		
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	Toilet facilities shall be provided for all construction sites	Yes		
98	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	NA		
99	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municode.com)	NA		
100	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.	NA		
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00	NA		
102	Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	Yes		
103	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	Yes		

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

Disclosure Statement for Owner Builders:

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

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

Section 105 of the Florida Building Code defines the:

Time limitation of application.

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

Single-family residential dwelling.

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

Permit intent.

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

If work has commenced.

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

New Permit.

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

Work Shall Be:

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

The Fee:

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

Notification:

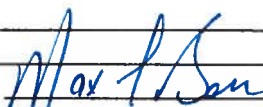
When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 555.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING Single Door	Plast Pro	Single Exterior Fiberglass	FI 15213.14
B. SWINGING Double Door	Plast Pro	Double Exterior Fiberglass	FI 15213.17
F. OTHER			
2. WINDOWS			
A. SINGLE HUNG	YKK	Windows	FI 8114 Rev 3
L. OTHER			
3. PANEL WALL			
A. SIDING	James Hardie	Lap Siding	7103
B. SOFFITS	ACM	Aluminum-Vented	12010-R5
J. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Certainteed	30 year Architectual	FI 250
B. UNDERLAYMENTS	Kohler Company	Synthetic Underlayment	177447
C. ROOFING FASTENERS	Senco	Nails	FI 2271
METAL ROOFING			
5. SHUTTERS			
G. OTHERS			
6. SKYLIGHTS			
A. SKYLIGHT			
B. OTHER			
7. STRUCTURAL			
A. WOOD CONNECTORS/ ANCHORS	Simpson	Truss to Wall Connector	17236
B. TRUSS PLATES	Mitek	Truss Plates	MT2020
F. CONCRETE			
M. OTHER			
8. NEW EXTERIOR ENVELOPE PRODUCTS			

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


APPLICANT SIGNATURE

8-5-19
DATE

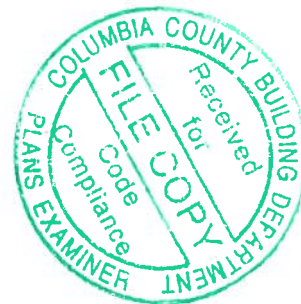
RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST**Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method**

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

- ☐ This checklist
- ☐ A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater).
- ☐ Energy Performance Level (EPL) Display Card (one page)
- ☐ HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- ☐ Mandatory Requirements (five pages)

Required prior to CO for the Performance Method:

- ☐ Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
- ☐ A completed Envelope Leakage Test Report (usually one page)
- ☐ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)



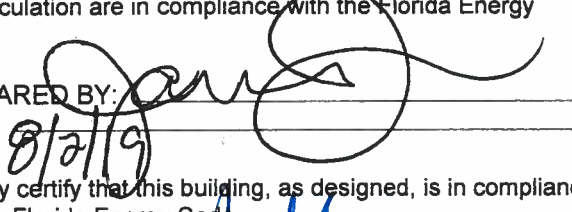
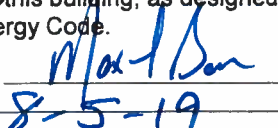
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: BB-Blackwell Street: City, State, Zip: , FL , Owner: Donnie & Sheila Blackwell Design Location: FL, Gainesville	Builder Name: B&B Homes - Max Bass Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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<table style="width:100%;"> <tr> <td>1. New construction or existing</td> <td>New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Single-family</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>4</td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>2598</td> </tr> <tr> <td> Conditioned floor area below grade (ft²)</td> <td>0</td> </tr> <tr> <td>7. Windows(221.0 sqft.)</td> <td>Description Area</td> </tr> <tr> <td> a. U-Factor:</td> <td>DbI, U=0.30 221.00 ft²</td> </tr> <tr> <td> SHGC:</td> <td>SHGC=0.25</td> </tr> <tr> <td> b. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td> SHGC:</td> <td></td> </tr> <tr> <td> c. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td> SHGC:</td> <td></td> </tr> <tr> <td> d. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td> SHGC:</td> <td></td> </tr> <tr> <td> Area Weighted Average Overhang Depth:</td> <td>4.262 ft.</td> </tr> <tr> <td> Area Weighted Average SHGC:</td> <td>0.250</td> </tr> <tr> <td>8. Floor Types (2598.0 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td> a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 2598.00 ft²</td> </tr> <tr> <td> b. N/A</td> <td>R= ft²</td> </tr> <tr> <td> c. N/A</td> <td>R= ft²</td> </tr> </table>	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)	2598	Conditioned floor area below grade (ft²)	0	7. Windows(221.0 sqft.)	Description Area	a. U-Factor:	DbI, U=0.30 221.00 ft²	SHGC:	SHGC=0.25	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:	4.262 ft.	Area Weighted Average SHGC:	0.250	8. Floor Types (2598.0 sqft.)	Insulation Area	a. Slab-On-Grade Edge Insulation	R=0.0 2598.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²	<table style="width:100%;"> <tr> <td>9. Wall Types(2350.0 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td> a. Frame - Wood, Exterior</td> <td>R=13.0 2062.00 ft²</td> </tr> <tr> <td> b. Frame - Wood, Adjacent</td> <td>R=13.0 288.00 ft²</td> </tr> <tr> <td> c. N/A</td> <td>R= ft²</td> </tr> <tr> <td> d. N/A</td> <td>R= ft²</td> </tr> <tr> <td>10. Ceiling Types (2598.0 sqft.)</td> <td>Insulation Area</td> </tr> <tr> <td> a. Under Attic (Vented)</td> <td>R=38.0 2598.00 ft²</td> </tr> <tr> <td> b. N/A</td> <td>R= ft²</td> </tr> <tr> <td> c. N/A</td> <td>R= ft²</td> </tr> <tr> <td>11. Ducts</td> <td>R ft²</td> </tr> <tr> <td> a. Sup: Attic, Ret: Attic, AH: Main</td> <td>6 300</td> </tr> <tr> <td>12. Cooling systems</td> <td>kBtu/hr Efficiency</td> </tr> <tr> <td> a. Central Unit</td> <td>33.9 SEER:14.00</td> </tr> <tr> <td>13. Heating systems</td> <td>kBtu/hr Efficiency</td> </tr> <tr> <td> a. Electric Heat Pump</td> <td>48.0 HSPF:8.20</td> </tr> <tr> <td>14. Hot water systems</td> <td></td> </tr> <tr> <td> a. Electric</td> <td>Cap: 50 gallons</td> </tr> <tr> <td></td> <td>EF: 0.980</td> </tr> <tr> <td> b. Conservation features</td> <td></td> </tr> <tr> <td> None</td> <td></td> </tr> <tr> <td>15. Credits</td> <td>CF</td> </tr> </table>	9. Wall Types(2350.0 sqft.)	Insulation Area	a. Frame - Wood, Exterior	R=13.0 2062.00 ft²	b. Frame - Wood, Adjacent	R=13.0 288.00 ft²	c. N/A	R= ft²	d. N/A	R= ft²	10. Ceiling Types (2598.0 sqft.)	Insulation Area	a. Under Attic (Vented)	R=38.0 2598.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²	11. Ducts	R ft²	a. Sup: Attic, Ret: Attic, AH: Main	6 300	12. Cooling systems	kBtu/hr Efficiency	a. Central Unit	33.9 SEER:14.00	13. Heating systems	kBtu/hr Efficiency	a. Electric Heat Pump	48.0 HSPF:8.20	14. Hot water systems		a. Electric	Cap: 50 gallons		EF: 0.980	b. Conservation features		None		15. Credits	CF
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Glass/Floor Area: 0.085	Total Proposed Modified Loads: 65.21	PASS
	Total Baseline Loads: 65.59	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 8/2/19 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT:  DATE: 8-5-19	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. 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	BB-Blackwell	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2598	Lot #	
Owner Name:	Donnie & Sheila Blackwell	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	B&B Homes - Max Bass	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

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

BLOCKS

Number	Name	Area	Volume
1	Block1	2598	25980

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2598	25980	Yes	4	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	290 ft	0	2598 ft²	----	0.25	0.5	0.25

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	2906 ft²	0 ft²	Medium	0.96	No	0.9	No	0	26.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2598 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Blown	2598 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
✓	1	N	Exterior	Frame - Wood	Main	13	44		9		396.0 ft²	1	0.23	0.75	0
✓	2	N	Exterior	Frame - Wood	Main	13	24		9		216.0 ft²	1	0.23	0.75	0
✓	3	E	Exterior	Frame - Wood	Main	13	60		9		540.0 ft²	1	0.23	0.75	0
✓	4	S	Exterior	Frame - Wood	Main	13	46		10		460.0 ft²	1	0.23	0.75	0
✓	5	W	Exterior	Frame - Wood	Main	13	50		9		450.0 ft²	1	0.23	0.75	0
✓	6	W	Garage	Frame - Wood	Main	13	10		9		90.0 ft²	1	0.23	0.75	0
✓	7	S	Garage	Frame - Wood	Main	13	22		9		198.0 ft²	1	0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	N	Insulated	Main	None	.46	6		6	8	40 ft²
✓	2	S	Insulated	Main	None	.46	5		6	8	33.3 ft²
✓	3	W	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
✓	1	N	1	Metal	Double (Tinted)	Yes	0.3	0.25	N	50.0 ft²	12 ft 0 in	2 ft 0 in	Drapes/blinds	None
✓	2	N	2	Metal	Double (Tinted)	Yes	0.3	0.25	N	15.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
✓	3	E	3	Metal	Double (Tinted)	Yes	0.3	0.25	N	45.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
✓	4	S	4	Metal	Double (Tinted)	Yes	0.3	0.25	N	75.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
✓	5	W	5	Metal	Double (Tinted)	Yes	0.3	0.25	N	30.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None
✓	6	W	5	Metal	Double (Tinted)	Yes	0.3	0.25	N	6.0 ft²	2 ft 0 in	2 ft 0 in	Drapes/blinds	None

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
✓	1	440 ft²	440 ft²	52 ft	9 ft	13

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000445	3031	166.4	312.94	.3635	7

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump/	Split	HSPF:8.2	48 kBtu/hr	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM										
✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts	
	1	Central Unit/	Split	SEER: 14	33.86 kBtu/hr	1020 cfm	0.75	1	sys#1	

HOT WATER SYSTEM									
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Electric	None	Main	0.98	50 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
✓	FSEC	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	# Cool
	1	Attic	6	300 ft²	Attic	100 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES														
Programable Thermostat: None										Ceiling Fans:				
Cooling	Heating	Venting	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Thermostat Schedule: HERS 2006 Reference														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	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	
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	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	

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

Name:

Signature: 

Rating Compant:

Date: 8/2/19

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level	
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts	R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts	R <u>6.0</u>
4. Number of bedrooms	4. <u>4</u>	c) AHU location	Attic/Attic
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system:	Capacity <u>33.9</u>
6. Conditioned floor area (sq. ft.)	6. <u>2598</u>	a) Split system	SEER <u>14.0</u>
7. Windows, type and area		b) Single package	SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.300</u>	c) Ground/water source	SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	d) Room unit/PTAC	EER <u> </u>
c) Area	7c. <u>221.0</u>	e) Other	<u> </u>
8. Skylights		14. Heating system:	Capacity <u>48.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump	HSPF <u>8.2</u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump	HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance	COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas	AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG	AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other	<u> </u>
10. Wall type and insulation:		15. Water heating system	
A. Exterior:		a) Electric resistance	EF <u>0.98</u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas	EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG	EF <u> </u>
B. Adjacent:		d) Solar system with tank	EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u>13.0</u>	e) Dedicated heat pump with tank	EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit	HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other	<u> </u>
a) Under attic	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)	
b) Single assembly	11b. <u> </u>	a) Ceiling fans	<u>Yes</u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation	<u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan	<u>No</u>
		d) Multizone cooling credit	<u> </u>
		e) Multizone heating credit	<u> </u>
		f) Programmable thermostat	<u>No</u>

*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: Matt San

Date: 8-5-19

Address of New Home: Lot 30 Hills at Rose Creek

City/FL Zip: FL Lake City

phase 2

Florida Building Code, Energy Conservation, 6th Edition (2017)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:

, FL

Permit Number:

MANDATORY REQUIREMENTS See individual code sections for full details.

SECTION R401 GENERAL

- ☐ **R401.3 Energy Performance Level (EPL) display card (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

- ☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

- ☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

- ☐ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

- ☐ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

- ☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.

- ☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R402.4.4 Rooms containing fuel-burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

- ☐ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

SECTION R403 SYSTEMS

R403.1 Controls.

- ☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.

- ☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

- ☐ **R403.3.2 Sealing (Mandatory)** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.

- ☐ **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.

- ☐ **R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:

1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

Exceptions:

1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
2. Duct testing is not mandatory for buildings complying by Section 405 of this code.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

- ☐ **R403.3.5 Building cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums.

- ☐ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

- ☐ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

- ☐ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

- ☐ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

- ☐ **R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 1/4 inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- R403.5.6 Water heater efficiencies (Mandatory).**
- ☐ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
- ☐ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
- ☐ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
- ☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
- ☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
- Exception:** Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
- ☐ **R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
- R403.7 Heating and cooling equipment (Mandatory).**
- ☐ **R403.7.1 Equipment sizing.** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

**TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

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

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

R403.7.1.2 Heating equipment capacity.

- ☐ **R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.

- ☐ **R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.

- ☐ **R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.

- ☐ **R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:

1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
2. A variable capacity system sized for optimum performance during base load periods is utilized.

- ☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.

- ☐ **R403.9 Snow melt and ice system controls (Mandatory)** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

- ☐ **R403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.

- ☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

- ☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

- ☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.

- ☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

- ☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- ☐ **R403.11 Portable spas (Mandatory)** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.

SECTION R404

ELECTRICAL POWER AND LIGHTING SYSTEMS

- ☐ **R404.1 Lighting equipment (Mandatory).** Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
Exception: Low-voltage lighting.
- R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

<div> <div>Project Name: BB-Blackwell</div> <div>Street:</div> <div>City, State, Zip: , FL ,</div> <div>Owner: Donnie & Sheila Blackwell</div> <div>Design Location: FL, Gainesville</div> </div> <div> <div>Builder Name: B&B Homes - Max Bass</div> <div>Permit Office:</div> <div>Permit Number:</div> <div>Jurisdiction:</div> </div>			CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Residential System Sizing Calculation

Summary

Donnie & Sheila Blackwell

Project Title:
BB-Blackwell

, FL

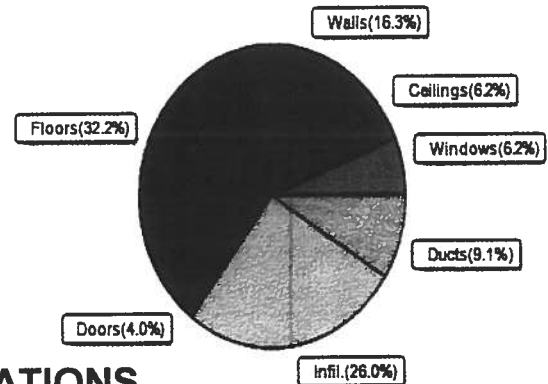
8/4/2019

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	42490 Btuh	Total cooling load calculation	31020 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	113.0 48000	Sensible (SHR = 0.75)	118.5 25398
Heat Pump + Auxiliary(0.0kW)	113.0 48000	Latent	88.4 8466
		Total (Electric Heat Pump)	109.2 33864

WINTER CALCULATIONS

Winter Heating Load (for 2598 sqft)

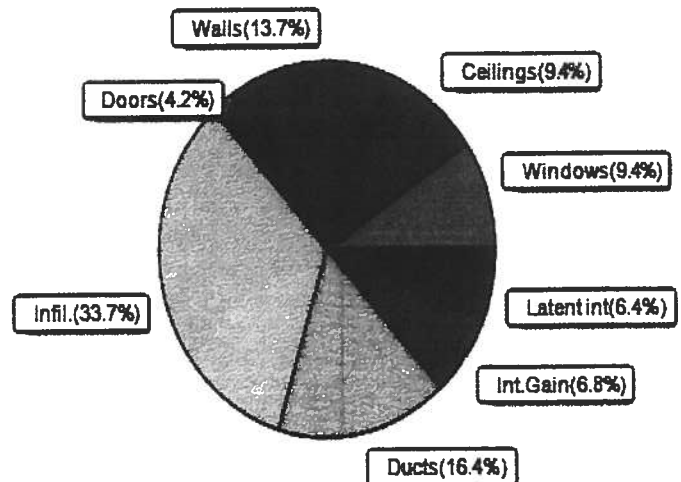
Load component		Load
Window total	221 sqft	2652 Btuh
Wall total	2036 sqft	6909 Btuh
Door total	93 sqft	1717 Btuh
Ceiling total	2598 sqft	2638 Btuh
Floor total	2598 sqft	13688 Btuh
Infiltration	252 cfm	11027 Btuh
Duct loss		3860 Btuh
Subtotal		42490 Btuh
Ventilation	0 cfm	0 Btuh
TOTAL HEAT LOSS		42490 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2598 sqft)

Load component		Load
Window total	221 sqft	2916 Btuh
Wall total	2036 sqft	4246 Btuh
Door total	93 sqft	1288 Btuh
Ceiling total	2598 sqft	2901 Btuh
Floor total		0 Btuh
Infiltration	189 cfm	3928 Btuh
Internal gain		2120 Btuh
Duct gain		4041 Btuh
Sens. Ventilation	0 cfm	0 Btuh
Blower Load		0 Btuh
Total sensible gain		21439 Btuh
Latent gain(ducts)		1062 Btuh
Latent gain(infiltration)		6518 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		2000 Btuh
Total latent gain		9580 Btuh
TOTAL HEAT GAIN		31020 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 8/2/19

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Donnie & Sheila Blackwell

Project Title:
BB-Blackwell
Building Type: User

, FL

8/4/2019

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 0.25	Metal	0.30	N	50.0		12.0	600 Btuh
2	2, NFRC 0.25	Metal	0.30	N	15.0		12.0	180 Btuh
3	2, NFRC 0.25	Metal	0.30	E	45.0		12.0	540 Btuh
4	2, NFRC 0.25	Metal	0.30	S	75.0		12.0	900 Btuh
5	2, NFRC 0.25	Metal	0.30	W	30.0		12.0	360 Btuh
6	2, NFRC 0.25	Metal	0.30	W	6.0		12.0	72 Btuh
	Window Total				221.0(sqft)			2652 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.085)	13.0/1.0	306		3.39	1039 Btuh
2	Frame - Wood	- Ext	(0.085)	13.0/1.0	201		3.39	682 Btuh
3	Frame - Wood	- Ext	(0.085)	13.0/1.0	495		3.39	1680 Btuh
4	Frame - Wood	- Ext	(0.085)	13.0/1.0	352		3.39	1194 Btuh
5	Frame - Wood	- Ext	(0.085)	13.0/1.0	394		3.39	1337 Btuh
6	Frame - Wood	- Adj	(0.085)	13.0/1.0	90		3.39	305 Btuh
7	Frame - Wood	- Adj	(0.085)	13.0/1.0	198		3.39	672 Btuh
	Wall Total				2036(sqft)			6909 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior,	n	(0.460)		40		18.4	736 Btuh
2	Insulated - Exterior,	n	(0.460)		33		18.4	613 Btuh
3	Insulated - Exterior,	n	(0.460)		20		18.4	368 Btuh
	Door Total				93(sqft)			1717Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Vented Attic/L/Shing		(0.025)	38.0/0.0	2598		1.0	2638 Btuh
	Ceiling Total				2598(sqft)			2638Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	290.0 ft(perim.)		47.2	13688 Btuh
	Floor Total				2598 sqft			13688 Btuh
	Envelope Subtotal:							27604 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		Load
	Natural		0.58	25980	1.00	251.8		11027 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att)						(DLM of 0.100)	3860 Btuh
All Zones	Sensible Subtotal All Zones							42490 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Donnie & Sheila Blackwell

Project Title:

BB-Blackwell

, FL

Building Type: User

8/4/2019

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	42490 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	42490 Btuh

EQUIPMENT

1. Electric Heat Pump	#	48000 Btuh
-----------------------	---	------------

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

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Donnie & Sheila Blackwell

Project Title:

BB-Blackwell

, FL

8/4/2019

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

Window	Type*						Overhang		Window Area(sqft)			HTM		Load		
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2 NFRC	0.25, 0.30	B-L	No	N		12.0ft	2.0ft	50.0	0.0	50.0	8	8	408	Btuh	
2	2 NFRC	0.25, 0.30	B-L	No	N		2.0ft	2.0ft	15.0	0.0	15.0	8	8	122	Btuh	
3	2 NFRC	0.25, 0.30	B-L	No	E		2.0ft	2.0ft	45.0	0.0	45.0	8	21	965	Btuh	
4	2 NFRC	0.25, 0.30	B-L	No	S		2.0ft	2.0ft	75.0	75.0	0.0	8	10	612	Btuh	
5	2 NFRC	0.25, 0.30	B-L	No	W		2.0ft	2.0ft	30.0	0.0	30.0	8	21	643	Btuh	
6	2 NFRC	0.25, 0.30	B-L	No	W		2.0ft	2.0ft	6.0	0.0	6.0	8	21	129	Btuh	
	Excursion													36	Btuh	
	Window Total								221 (sqft)					2916 Btuh		
Walls	Type						U-Value		R-Value		Area(sqft)		HTM		Load	
									Cav/Sheath							
1	Frame - Wood - Ext						0.08		13.0/1.0		306.0		2.2		662 Btuh	
2	Frame - Wood - Ext						0.08		13.0/1.0		201.0		2.2		435 Btuh	
3	Frame - Wood - Ext						0.08		13.0/1.0		495.0		2.2		1071 Btuh	
4	Frame - Wood - Ext						0.08		13.0/1.0		351.7		2.2		761 Btuh	
5	Frame - Wood - Ext						0.08		13.0/1.0		394.0		2.2		852 Btuh	
6	Frame - Wood - Adj						0.08		13.0/1.0		90.0		1.6		145 Btuh	
7	Frame - Wood - Adj						0.08		13.0/1.0		198.0		1.6		319 Btuh	
	Wall Total										2036 (sqft)				4246 Btuh	
Doors	Type										Area (sqft)		HTM		Load	
1	Insulated - Exterior										40.0		13.8		552 Btuh	
2	Insulated - Exterior										33.3		13.8		460 Btuh	
3	Insulated - Exterior										20.0		13.8		276 Btuh	
	Door Total										93 (sqft)				1288 Btuh	
Ceilings	Type/Color/Surface						U-Value		R-Value		Area(sqft)		HTM		Load	
1	Vented Attic/Light/Shingle						0.025		38.0/0.0		2598.0		1.12		2901 Btuh	
	Ceiling Total										2598 (sqft)				2901 Btuh	
Floors	Type								R-Value		Size		HTM		Load	
1	Slab On Grade								0.0		2598 (ft-perimeter)		0.0		0 Btuh	
	Floor Total										2598.0 (sqft)				0 Btuh	
	Envelope Subtotal:													11350 Btuh		
Infiltration	Type						Average ACH		Volume(cuft)		Wall Ratio		CFM=		Load	
	Natural						0.44		25980		1		188.9		3928 Btuh	
Internal gain							Occupants		Btuh/occupant				Appliance		Load	
							4		X 230		+		1200		2120 Btuh	
	Sensible Envelope Load:													17399 Btuh		
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)										(DGM of 0.232)				4041 Btuh	
	Sensible Load All Zones													21439 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Donnie & Sheila Blackwell

Project Title:
BB-Blackwell

Climate:FL_GAINESVILLE_REGIONAL_A

, FL

8/4/2019

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	17399 Btuh
	Sensible Duct Load	4041 Btuh
	Total Sensible Zone Loads	21439 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	21439 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	6518 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1062 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	1200 Btuh
	Latent total gain	9580 Btuh
	TOTAL GAIN	31020 Btuh

EQUIPMENT

1. Central Unit	#	33864 Btuh
-----------------	---	------------

*Key: Window types (Panels - 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



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

RE: Blackwell_Rev1 - Blackwell Rev1

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: BB Homes Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FL

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

Name: License #:
Address:
City: State:

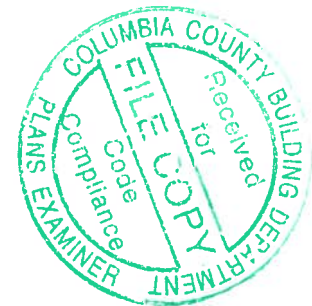
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

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 44 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	T17790941	A1	8/6/19	23	T17790963	D5	8/6/19
2	T17790942	A2	8/6/19	24	T17790964	D6	8/6/19
3	T17790943	A3	8/6/19	25	T17790965	D7GIR	8/6/19
4	T17790944	B1GIR	8/6/19	26	T17790966	E1GE	8/6/19
5	T17790945	B2	8/6/19	27	T17790967	E2	8/6/19
6	T17790946	B3	8/6/19	28	T17790968	E3	8/6/19
7	T17790947	B4	8/6/19	29	T17790969	F1GE	8/6/19
8	T17790948	B5	8/6/19	30	T17790970	F2	8/6/19
9	T17790949	B6	8/6/19	31	T17790971	F3GIR	8/6/19
10	T17790950	C1GIR	8/6/19	32	T17790972	G1GE	8/6/19
11	T17790951	C2	8/6/19	33	T17790973	G2	8/6/19
12	T17790952	C3	8/6/19	34	T17790974	J1	8/6/19
13	T17790953	C4	8/6/19	35	T17790975	J1A	8/6/19
14	T17790954	C5	8/6/19	36	T17790976	J1B	8/6/19
15	T17790955	C6	8/6/19	37	T17790977	J2	8/6/19
16	T17790956	C7	8/6/19	38	T17790978	J2A	8/6/19
17	T17790957	CJ1	8/6/19	39	T17790979	J3	8/6/19
18	T17790958	CJ2	8/6/19	40	T17790980	J3A	8/6/19
19	T17790959	D2	8/6/19	41	T17790981	J4	8/6/19
20	T17790960	D2GIR	8/6/19	42	T17790982	J4A	8/6/19
21	T17790961	D3	8/6/19	43	T17790983	J5	8/6/19
22	T17790962	D4	8/6/19	44	T17790984	R1	8/6/19



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: Lee, Julius
My license renewal date for the state of Florida is February 28, 2021.

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



Julius Lee PE No. 34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790941
Blackwell_Rev1	A1	Roof Special	6	1	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 17 2019 Page 1

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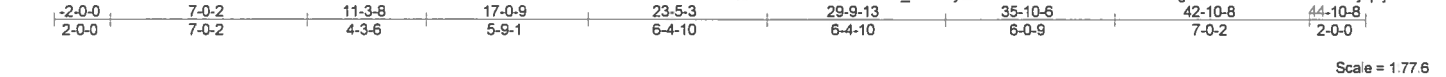


Plate Offsets (X,Y) -		[4.0-2-8.0-3-0], [8.0-2-8.0-3-0], [10.0-8-3-Edge], [13.0-2-8.0-3-0], [14.0-4-8.0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSL
TCLL 20.0	Plate Grip DOL	1.25	TC 0.86
TCDL 10.0	Lumber DOL	1.25	BC 0.91
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.13 12-13	>999	240
Vert(CT)	-0.28 12-13	>999	180
Horz(CT)	0.08 10	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 249 lb	FT = 0%		

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
8-11: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Right 2x8 SP 2400F 2.0E 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-14

REACTIONS. (lb/size) 2=301/0-3-8, 17=2073/0-3-8, 10=1296/0-3-8
Max Horz 2=-167(LC 10)
Max Uplift 2=-148(LC 12), 17=-92(LC 12), 10=-49(LC 12)
Max Grav 2=382(LC 21), 17=2073(LC 1), 10=1296(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-87/371, 3-4=-205/950, 4-5=-747/244, 5-6=-1043/376, 6-7=-1045/376,
7-8=-1589/450, 8-10=-1927/473
BOT CHORD 2-18=-333/22, 16-17=-2060/658, 4-16=-1769/481, 15-16=-780/316, 14-15=-5/689,
13-14=-196/1422, 12-13=-318/1689, 10-12=-316/1690
WEBS 3-18=-134/291, 16-18=-295/60, 3-16=-734/489, 4-15=-347/1665, 5-15=-753/257,
5-14=-10/423, 6-14=-92/438, 7-14=-782/255, 7-13=-5/391, 8-13=-330/144

- 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=43ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10 except (jt=lb) 2=148.
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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building 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.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790942
Blackwell_Rev1	A2	Roof Special	4	1		

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 18 2019 Page 1

ID WSn6HtHfQP D9ZVH2_ROnBysEZT-6HailhRAOWGtGKHkb2GZDrOYfwUf3fYUDl6TSCyqXj7



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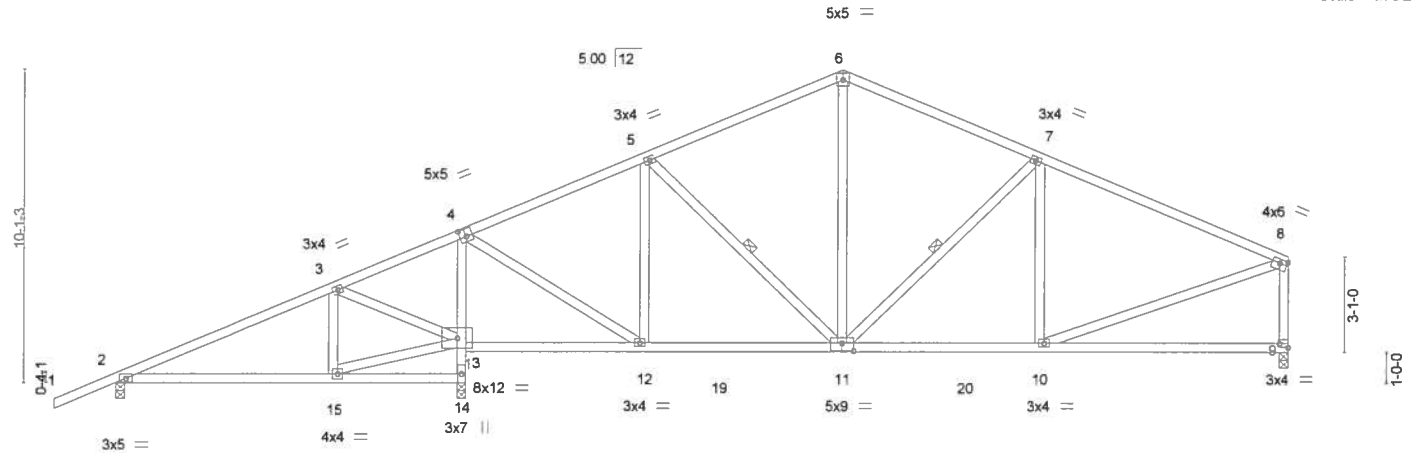


Plate Offsets (X,Y)-	[4:0-2-8,0-3-0], [8:0-3-0,0-1-8], [9:Edge,0-1-8], [11:0-4-8,0-3-0]
----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	-0.10	9-10	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.20	9-10	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.02	9	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 5-11, 7-11

REACTIONS.

(lb/size) 2=464/0-3-8, 14=1658/0-3-8, 9=1016/0-3-8
Max Horz 2=203(LC 11)
Max Uplift 2=-137(LC 12), 14=-108(LC 12)
Max Grav 2=482(LC 21), 14=1658(LC 1), 9=1016(LC 1)

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

TOP CHORD 2-3=-343/214, 3-4=-199/395, 4-5=-808/231, 5-6=-885/326, 6-7=-890/330,
7-8=-1132/310, 8-9=-937/271
BOT CHORD 2-15=-267/258, 13-14=-1642/628, 4-13=-1291/420, 12-13=-297/187, 11-12=-124/736,
10-11=-216/966
WEBS 13-15=-255/289, 3-13=-594/438, 4-12=-285/1136, 5-12=-479/230, 6-11=-68/345,
7-11=-365/160, 8-10=-175/927

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=38ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=137, 14=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.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building 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.



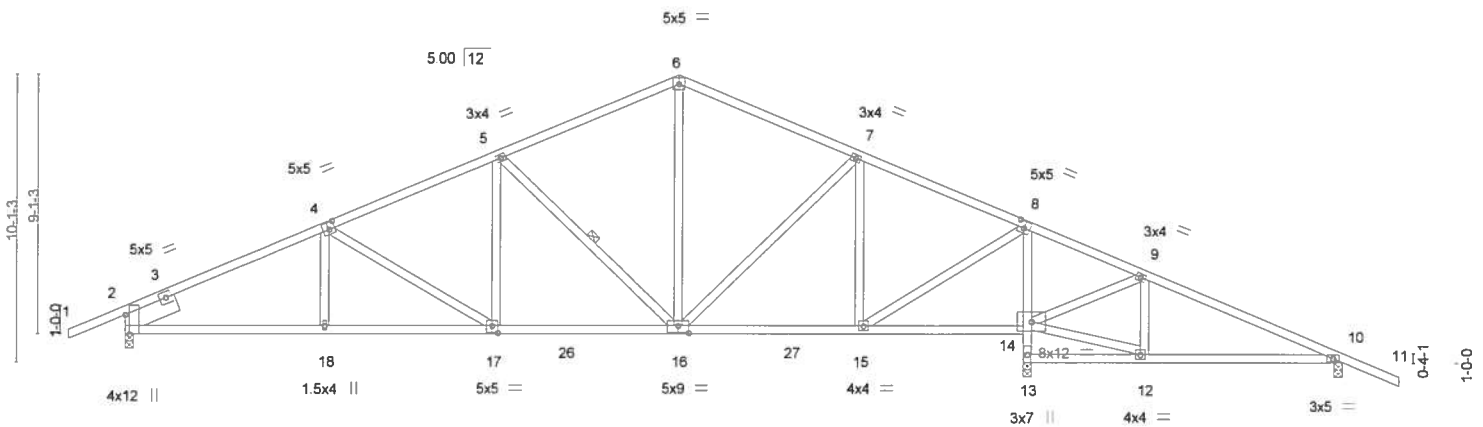
6904 Parke East Blvd.
Tampa, FL 33610


Mayo Truss Company, Inc. Mayo, FL - 32066 8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 20 2019 Page 1

ID WSn6HtHfQIPID9ZVH2_ROnBysEZT-3giSjMTQYXwbWeR6Tl1IGUokk30XWDmh3baW4yqXj5

2-0-0 7-0-2 13-0-11 19-5-5 25-9-15 31-7-0 35-10-6 42-10-8 44-10-8
2-0-0 7-0-2 6-0-9 6-4-10 6-4-10 5-9-1 4-3-6 7-0-2 2-0-0

Scale = 1/76 4



														
Plate Offsets (X,Y)-- [2-0-8-3,Edge], [4-0-2-8,0-3-0], [8-0-2-8,0-3-0], [16-0-4-8,0-3-0], [17-0-2-8,0-3-0]														
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 0.86		Vert(LL) -0.13 17-18 >999 240				MT20		244/190		
TCDL	10.0	Lumber DOL 1.25		BC 0.91		Vert(CT) -0.28 17-18 >999 180								
BCLL	0.0 *	Rep Stress Incr YES		WB 0.49		Horz(CT) 0.05 13 n/a n/a								
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS						Weight 249 lb		FT = 0%		

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 1-4; 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 5-16
SLIDER	Left 2x8 SP 2400F 2.0E 2-0-0		

REACTIONS. (lb/size) 2=1296/0-3-8, 13=2073/0-3-8, 10=301/0-3-8
 Max Horz 2=167(LC 11)
 Max Uplift 2=-52(LC 12), 13=-79(LC 12), 10=-159(LC 12)
 Max Grav 2=1296(LC 1), 13=2073(LC 1), 10=382(LC 22)

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

TOP CHORD
2-4=-1927/485, 4-5=-1589/464, 5-6=-1045/390, 6-7=-1043/390, 7-8=-742/271,
8-9=-180/950, 9-10=-87/396

BOT CHORD
2-18=-235/1781, 17-18=-237/1760, 16-17=-126/1504, 15-16=0/653, 14-15=-780/339,
13-14=-2060/643, 8-14=-1769/466, 10-12=-286/12

WEBS
4-17=-331/142, 5-16=-5/392, 5-16=-782/255, 6-16=-103/437, 7-16=-1/423,
7-15=-753/248, 8-15=-334/1665, 9-14=-734/494, 9-12=-133/291

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vastd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft, B=45ft; L=43ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 10=159.
- 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.



Julius Lee PE No.34869
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MP#7171769, 10/30/2019 BEFORE USE.

Design valid for use only with MitefX[®] 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

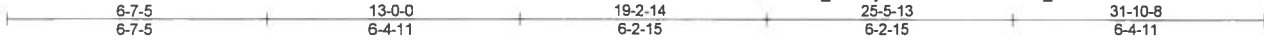


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790944
Blackwell_Rev1	B1GIR	Half Hip Girder	1	2	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 24 2019 Page 1
ID WSn6HtHfQPID9ZVH2_RONBysEZT-xRzYkVwbm10_FktJMzT6eXULUYTLLMchZnfsyqXj1



Scale = 1:55.0

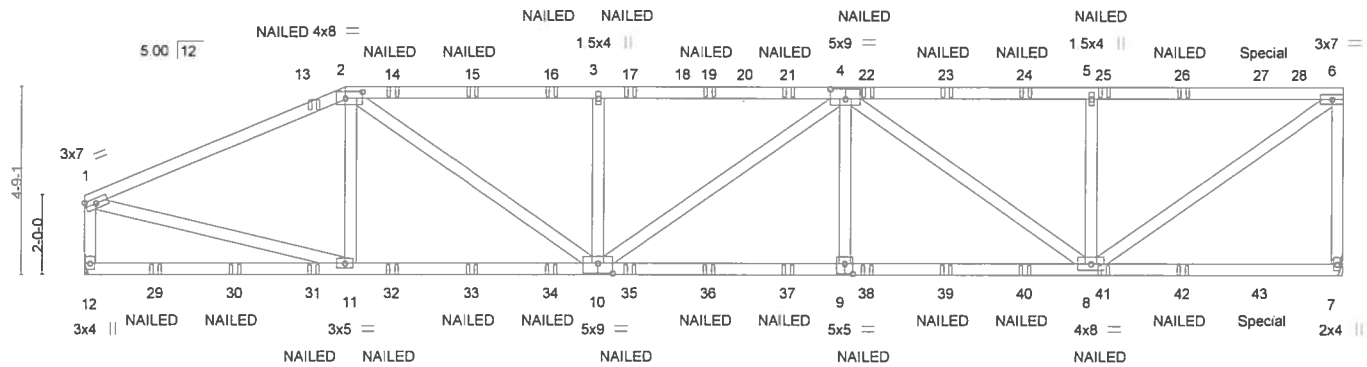


Plate Offsets (X,Y)--	[2-0-5-4-0-2-0], [4-0-4-8-0-3-0], [9-0-2-8-0-3-0], [10-0-4-8-0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.28	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(CT)	0.06	7	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 364 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 4-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=2679/Mechanical, 12=2351/Mechanical
Max Horz 12=131(LC 5)
Max Uplift 7=125(LC 8), 12=41(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3343/125, 2-3=-4538/242, 3-4=-4538/242, 4-5=-3109/186, 5-6=-3109/186, 6-7=-2533/199, 1-12=-2225/106
BOT CHORD 10-11=-111/2998, 9-10=-197/4513, 8-9=-197/4513
WEBS 2-11=-452/193, 2-10=-124/1878, 3-10=-812/224, 4-9=0/495, 4-8=-1726/70, 5-8=-854/245, 6-8=-171/3747, 1-11=-70/2975

NOTES-

- 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: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (j=lb) 7=125.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 75 lb up at 29-9-12, and 119 lb down and 75 lb up at 30-0-12 on top chord, and 83 lb down at 29-9-12, and 83 lb down at 30-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790944
Blackwell_Rev1	B1GIR	Half Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14:51:24 2019 Page 2
ID: WSn6HtHfQPID9ZVH2_ROnBysEZT-xRzYkWwbm10_FkxJMzT6eXULUYTLLMchZnfsyqXj1

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 7-12=-20

Concentrated Loads (lb)

Vert: 13=-119(F) 14=-119(F) 15=-119(F) 16=-119(F) 17=-119(F) 19=-119(F) 21=-119(F) 22=-119(F) 23=-119(F) 24=-119(F) 25=-119(F) 26=-119(F) 27=-238(F)
29=-52(F) 30=-52(F) 31=-52(F) 32=-52(F) 33=-52(F) 34=-52(F) 35=-52(F) 36=-52(F) 37=-52(F) 38=-52(F) 39=-52(F) 40=-52(F) 41=-52(F) 42=-52(F) 43=-105(F)

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790945
Blackwell_Rev1	B2	Roof Special	1	1	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 25 2019 Page 1
ID WSn6HtHfQPID9ZVH2_ROnBysEZT-PdVLM4XZM39tcPJ4V1uC?JBhDIq4CmCWqLILClyqXj0



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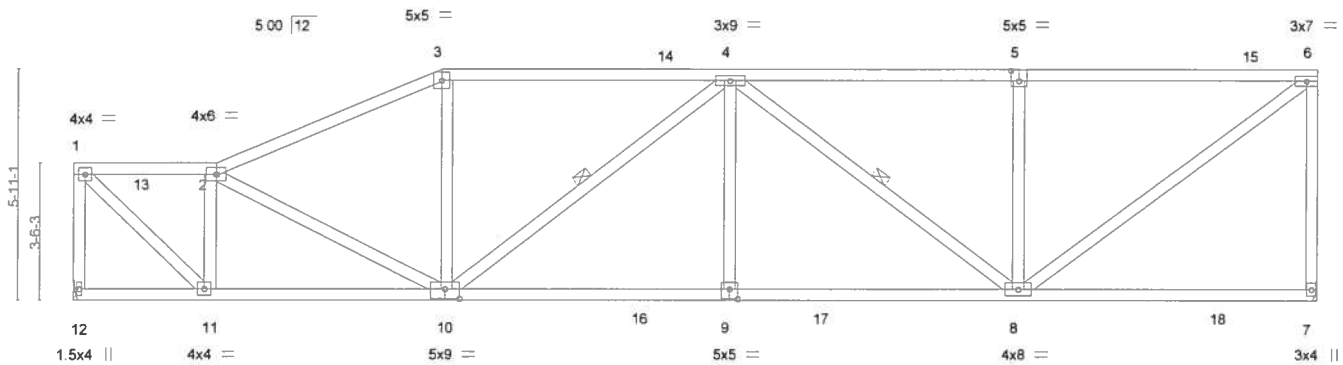


Plate Offsets (X,Y)-- [5:0-2-8,0-3-4], [9:0-2-8,0-3-0], [10:0-4-8,0-3-0]

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 0.75	Vert(LL)	-0.09	9-10	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.22	9-10	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.06	7	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 192 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 4-10, 4-8

REACTIONS.

(lb/size) 12=1263/Mechanical, 7=1263/Mechanical
Max Horz 12=163(LC 9)
Max Uplift 7=-1(LC 12)
Max Grav 12=1263(LC 1), 7=1269(LC 17)

FORCES.

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

TOP CHORD 1-12=-1230/272, 1-2=-1199/271, 2-3=-1703/368, 3-4=-1520/380, 4-5=-1359/351,
5-6=-1359/351, 6-7=-1192/312
BOT CHORD 11-12=-251/204, 10-11=-481/1257, 9-10=-488/1856, 8-9=-488/1856
WEBS 1-11=-348/1642, 2-11=-1056/307, 2-10=-43/382, 3-10=0/341, 4-10=-521/81, 4-9=0/314,
4-8=-646/168, 5-8=-478/227, 6-8=-378/1656

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=32ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- 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.



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790946
Blackwell_Rev1	B3	Roof Special	1	1	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51:27 2019 Page 1

ID WSn6HtHfQPI D9ZVH2_ROnBysEZT-M0d5BmYpuhPbsiTSdRwg4kG6AYZWgeBofnSGAyqX)_
0-10-0 7-0-2 12-2-8 18-8-0 25-1-8 31-10-8
0-10-0 6-2-2 5-2-6 6-5-8 6-5-8 6-9-0

Scale = 1 55 3

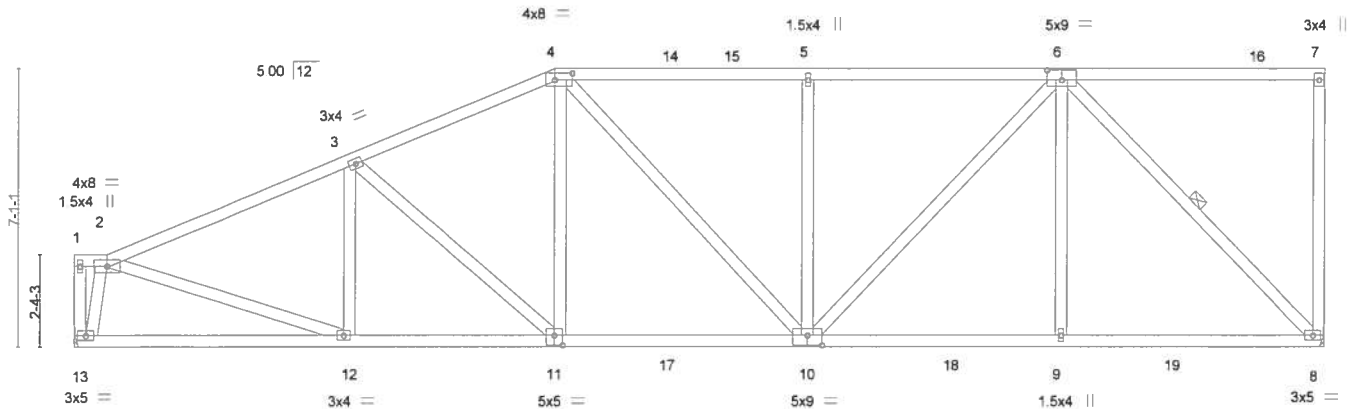


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-4-8,0-3-0], [10:0-4-8,0-3-0], [11:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.40	Vert(LL) -0.09	10-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0.18	10-11	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.05	8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS					Weight: 206 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 6-8

REACTIONS.

(lb/size) 13=1263/Mechanical, 8=1263/Mechanical
Max Horz 13=201(LC 9)
Max Uplift 8=-2(LC 12)
Max Grav 13=1263(LC 1), 8=1304(LC 17)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1713/381, 3-4=-1609/414, 4-5=-1484/413, 5-6=-1484/413
BOT CHORD 12-13=-458/545, 11-12=-569/1562, 10-11=-475/1471, 9-10=-305/1088, 8-9=-305/1088
WEBS 2-13=-1375/448, 2-12=-188/1094, 4-11=-17/295, 5-10=-404/185, 6-10=-195/650,
6-9=0/333, 6-8=-1513/351

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=32ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790947
Blackwell_Rev1	B4	H/p	1	1	Job Reference (optional)	

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

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Scale = 1:55.8

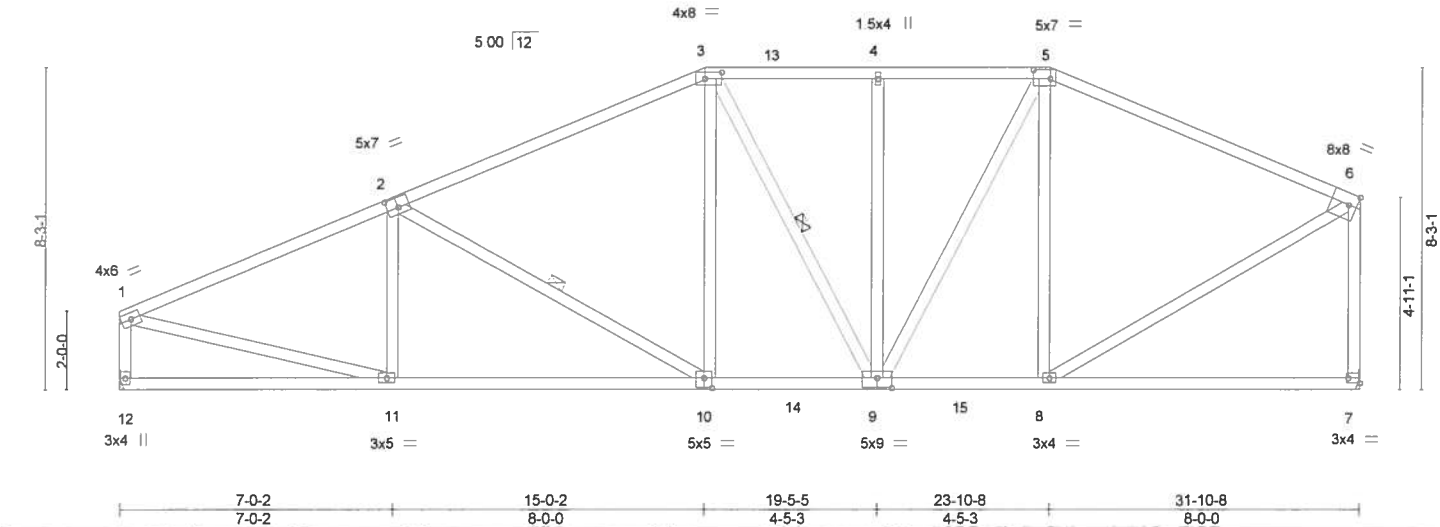


Plate Offsets (X,Y) -- [2.0-3-8.0-3-0], [3.0-5-4.0-2-0], [5.0-5-4.0-2-12], [6.0-2-5,Edge], [7:Edge,0-1-8], [9:0-4-8.0-3-0], [10:0-2-8.0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC 0.69		Vert(LL) -0.11 7-8 >999 240		MT20		244/190	
TCDL	10.0	Lumber DOL 1.25		BC 0.64		Vert(CT) -0.24 10-11 >999 180					
BCLL	0.0 *	Rep Stress Incr YES		WB 0.44		Horz(CT) 0.04 7 n/a n/a					
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							
								Weight: 210 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 2-10, 3-9

REACTIONS. (lb/size) 12=1263/Mechanical, 7=1263/Mechanical
Max Horz 12=188(LC 11)
Max Uplift 7=-1(LC 12)

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

TOP CHORD 1-2=-1754/412, 2-3=-1488/419, 3-4=-1196/412, 4-5=-1196/412, 5-6=-1154/341,
1-12=-1198/316, 6-7=-1184/338
BOT CHORD 11-12=-263/241, 10-11=-506/1565, 9-10=-348/1299, 8-9=-256/975
WEBS 2-10=-340/183, 3-10=-9/400, 5-9=-120/537, 5-8=-397/217, 1-11=-300/1487,
6-8=-235/1074

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790948
Blackwell_Rev1	B5	Hip	1	1	Job Reference (optional)	

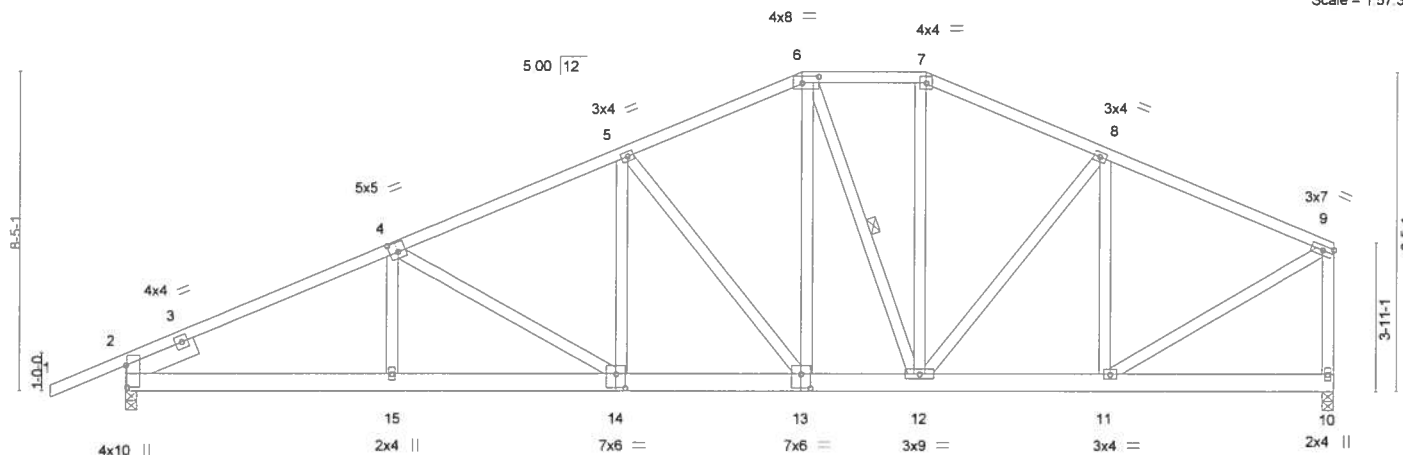
Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MITek Industries, Inc. Tue Aug 6 14 51 29 2019 Page 1

ID WSn6HIHfQPID9ZVH2_R0nBysEZT-I0lscRa3QIfJ50drksy899MNMJMA?8XR5lzGYK3yqXiy

-2-0-0	7-0-2	13-0-11	17-9-11	21-0-14	25-9-15	31-10-8
2-0-0	7-0-2	6-0-9	4-9-0	3-3-3	4-9-1	6-0-9

Scale = 1 57.3



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Plate Offsets (X,Y)-- [2-0-6-15,0-0-6], [4-0-2-8,0-3-0], [6-0-5-4,0-2-0], [13-0-3-0,0-4-8], [14-0-3-0,0-4-8]									
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 0.75		Vert(LL) -0.10 14-15 >999 240		MT20 244/190	
TCDL 10.0		Lumber DOL 1.25		BC 0.79		Vert(CT) -0.21 14-15 >999 180			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.69		Horz(CT) 0.04 10 n/a n/a			
BCDL 10.0		Code FBC2017/TPI2014		Matrix-AS				Weight: 237 lb FT = 0%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-12

REACTIONS. (lb/size) 2=1393/0-3-8, 10=1265/0-3-8
Max Horz 2=183(LC 11)
Max Uplift 2=49(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2146/501, 4-5=-1850/492, 5-6=-1400/448, 6-7=-1129/416, 7-8=-1284/422,
8-9=-1186/339, 9-10=-1203/323
BOT CHORD 2-15=-560/1910, 14-15=-563/1911, 13-14=-434/1641, 12-13=-293/1231, 11-12=-271/1037
WEBS 4-14=-332/150, 5-14=-20/390, 5-13=-669/229, 6-13=-128/568, 6-12=-367/78,
7-12=-56/278, 8-11=-505/223, 9-11=-260/1168

- 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=32ft; 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) 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.
 - 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.



Julius Lee PE No.34869
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790949
Blackwell_Rev1	B6	Common	4	1		

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51:31 2019 Page 1

ID WSn6HtHfQPID9ZVH2_RONBysEZT-Ensc07bKyv1KKmDsH_cFaRjkArbcXtODHfOyyqXnw

-2-0-0	7-0-2	13-0-11	19-5-5	25-9-15	31-10-8
2-0-0	7-0-2	6-0-9	6-4-10	6-4-10	6-0-9

Scale = 1:57.1

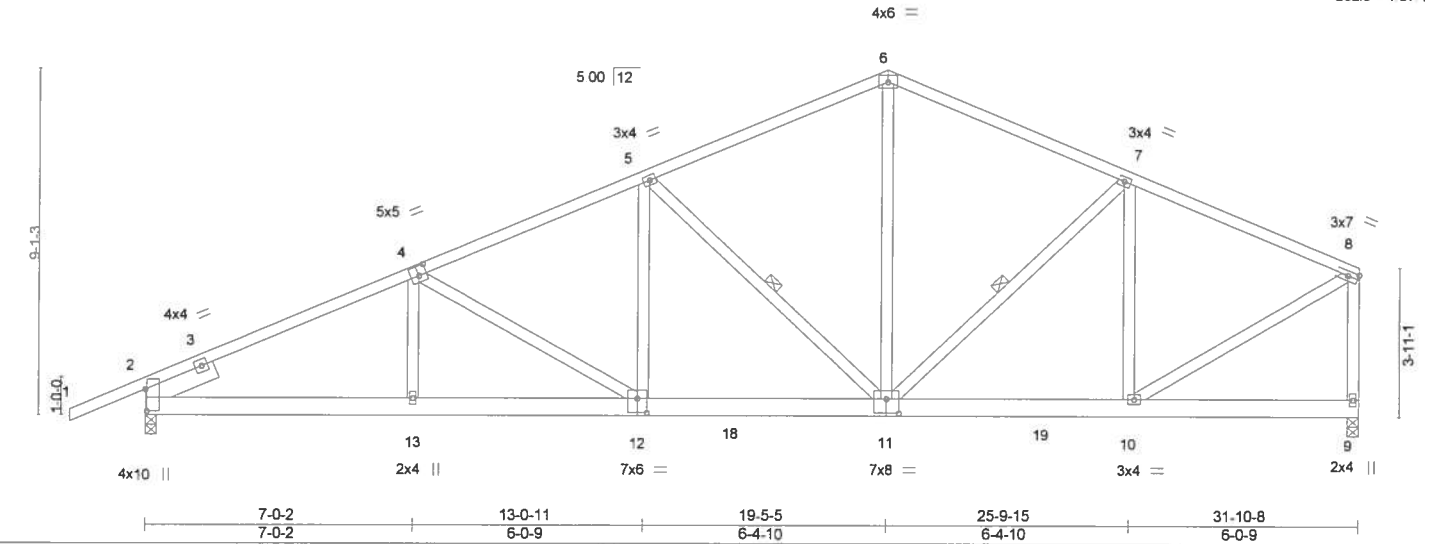


Plate Offsets (X,Y)--									
[2-0-6-15-0-0-6], [4-0-2-8-0-3-0], [11-0-4-0-0-4-8], [12-0-3-0-0-4-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.10 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.20 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.04 9	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 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 2-0-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11, 7-11

REACTIONS.

(lb/size) 2=1393/0-3-8, 9=1265/0-3-8
Max Horz 2=194(LC 11)
Max Uplift 2=49(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2145/509, 4-5=-1854/502, 5-6=-1286/429, 6-7=-1286/430, 7-8=-1193/348, 8-9=-1206/329
BOT CHORD 2-13=-566/1913, 12-13=-569/1914, 11-12=-446/1669, 10-11=-281/1047
WEBS 4-12=-325/144, 5-12=-6/402, 5-11=-766/255, 6-11=-134/588, 7-10=-495/232, 8-10=-274/1184

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf, BCDL=6.0psf; h=15ft; B=45ft; L=32ft; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



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Date:

August 6, 2019

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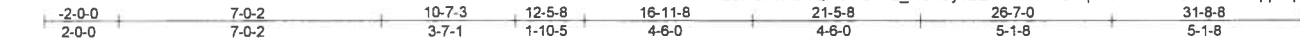


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790950
Blackwell_Rev1	C1GIR	Half Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 34 2019 Page 1
ID WSn6HtHfQPID9ZVH2_ROnBysEZT-eMYf9eCFqHbBnVoXPYJsD3IRNsnppEqvE_J?GyqXit



Scale = 1/8" = 1'-0"

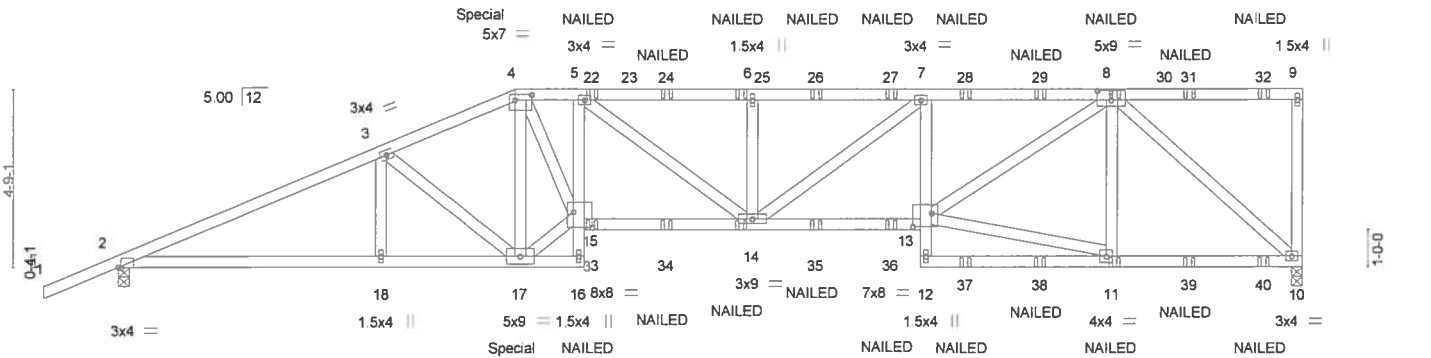


Plate Offsets (X,Y)--	[2.0-0-14,Edge], [4.0-5-4,0-1-12], [8.0-4-8,0-3-0], [13.0-6-0,0-4-4], [15.0-6-0,0-5-0]
-----------------------	--

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 0.47	Vert(LL)	-0.22 14-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.88	Vert(CT)	-0.45 14-15	>838	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.19 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 387 lb	FT = 0%

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-8-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2		

REACTIONS. (lb/size) 10=2679/0-3-8, 2=2393/0-3-8
Max Horz 2=145(LC 7)
Max Uplift 10=90(LC 8), 2=113(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5210/161, 3-4=-4793/199, 4-5=-6383/226, 5-6=-6241/190, 6-7=-6241/190, 7-8=-5578/193, 9-10=-261/73
BOT CHORD 2-18=-138/4743, 17-18=-138/4743, 14-15=-210/6491, 13-14=-179/5642, 7-13=-968/135, 10-11=-101/2622
WEBS 3-17=-515/59, 4-17=-2479/154, 15-17=-171/5205, 4-15=-103/4445, 5-14=-291/71, 6-14=-524/116, 7-14=-1/755, 11-13=-105/2492, 8-13=-93/3546, 8-11=-324/176, 8-10=-3473/107

- NOTES-
- 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: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; B=45ft; L=32ft; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=113.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 262 lb down and 180 lb up at 10-7-3 on top chord, and 456 lb down and 18 lb up at 10-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790950
Blackwell_Rev1	C1GIR	Half Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc Tue Aug 6 14:51:34 2019 Page 2
ID WSn6HtHfQPID9ZVH2_ROnBysEZT-eMYif9eCFqHbBnVoXPYJsD3IRNsnpEqvE_J?GyqXit

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 16-19=-20, 13-15=-20, 10-12=-20

Concentrated Loads (lb)

Vert: 4=-262(F) 17=-448(F) 14=-73(F) 11=-52(F) 8=-119(F) 22=-99(F) 24=-99(F) 25=-99(F) 26=-99(F) 27=-99(F) 28=-119(F) 29=-119(F) 31=-119(F) 32=-122(F)
33=-73(F) 34=-73(F) 35=-73(F) 36=-73(F) 37=-52(F) 38=-52(F) 39=-52(F) 40=-53(F)

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6904 Parke East Blvd
Tampa, FL 36610

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 37 2019 Page 1
ID WSn6HtHfQPID9ZVH2_RonBysEZT-3xEtHAg4YlqA2FENCY50UrhJaxW059HbCCczbyqXlq

Structural drawing of a roof truss system. The drawing includes dimensions and member labels:

- Dimensions:**
 - Overall width: 5.00' (12')
 - Overall height: 7'-1.1'
 - Roof slope: 7'-1.1' (vertical) to 1'-0.0' (horizontal)
 - Horizontal segments: 7'-0.2', 12'-5.8', 16'-2.6', 21'-5.8', 26'-0.12', 30'-8.0', 31'-8.8'
 - Vertical segments: 7'-0.2', 5'-5.6', 3'-8.14', 5'-3.2', 4'-7.4', 4'-7.4', 1'-0.8'
- Member Labels:**
 - Top chord: 3x4, 4x8, 1.5x4, 3x4, 4x8, 3x7
 - Bottom chord: 3x4, 4x6, 2x4, 3x4, 5x9, 1.5x4, 4x8, 3x4
 - Vertical members: 5x5, 6x8, 3x4, 5x9, 1.5x4, 4x8, 3x4
 - Diagonal members: 5x5, 6x8, 3x4, 5x9, 1.5x4, 4x8, 3x4

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDF=6.0psf, BCDL=6.0psf, h=15ft; B=45ft; L=32ft; 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) 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.
- 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.



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790953
Blackwell_Rev1	C4	Hip	1	1	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc Tue Aug 6 14 51 39 2019 Page 1

ID WSn6HhFQPID9ZVH2_R0nBysEZT-?KLeisL3NwulYOmKz8UZGm3Y0cvU_GZ3Wh4gUyqXio

-2-0-0	7-0-2	12-5-8	19-0-0	21-5-8	27-10-6	31-8-8
2-0-0	7-0-2	5-5-6	6-6-8	2-5-8	6-4-14	3-10-2

Scale = 1 58 7

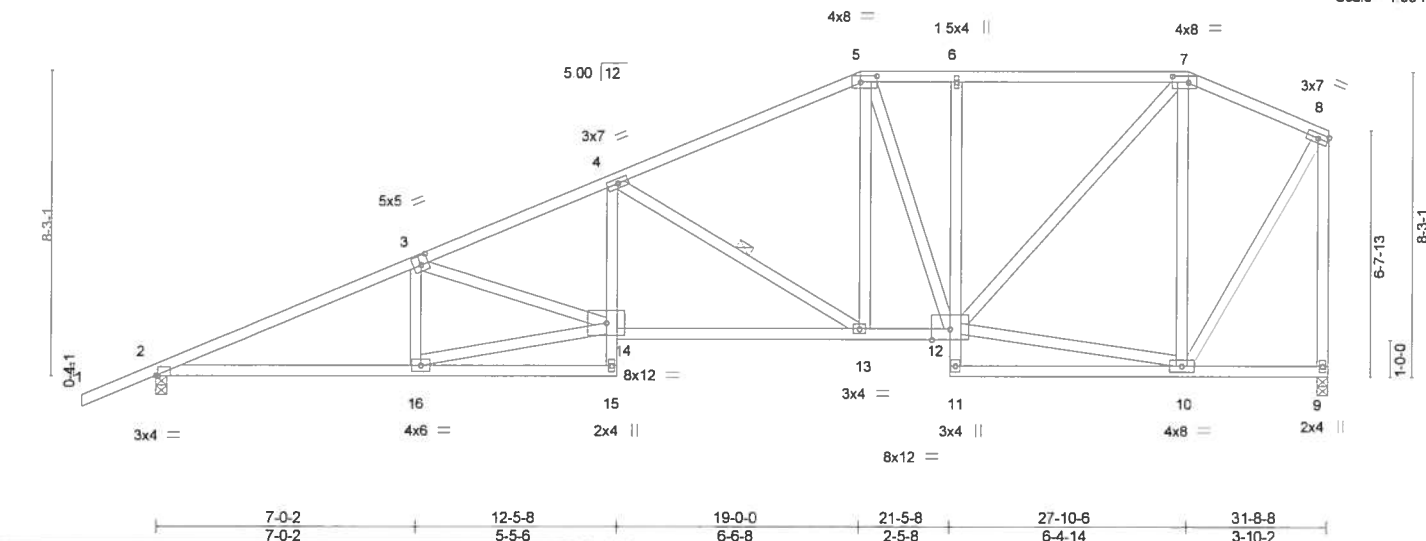


Plate Offsets (X,Y) -		[2-0-0-10,Edge], [3-0-2-8,0-3-0], [5-0-5-4,0-2-0], [7-0-5-4,0-2-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	-0.15 13-14	>999	240
TCDL 10.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.34 13-14	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.12 9	n/a	n/a
BCDL 10.0	Code FBC2017/TP12014		Matrix-AS				
						Weight: 224 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 4-13

REACTIONS.

(lb/size) 2=1386/0-3-8, 9=1259/0-3-8
Max Horz 2=228(LC 11)
Max Uplift 2=48(LC 12)

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

TOP CHORD 2-3=-2642/555, 3-4=-2630/615, 4-5=-1579/422, 5-6=-1242/403, 6-7=-1247/406,
7-8=-623/255, 8-9=-1231/311
BOT CHORD 2-16=-759/2375, 4-14=-110/676, 13-14=-780/2414, 12-13=-439/1395, 6-12=-312/116
WEBS 3-16=-365/227, 14-16=-728/2320, 4-13=-1209/400, 5-13=-120/721, 5-12=-441/128,
10-12=-210/449, 7-12=-311/1072, 7-10=-881/350, 8-10=-267/1064

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf, BCDL=6.0psf; h=15ft; B=45ft; L=32ft; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



Julius Lee PE No.34869
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6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

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Tampa, FL 33610

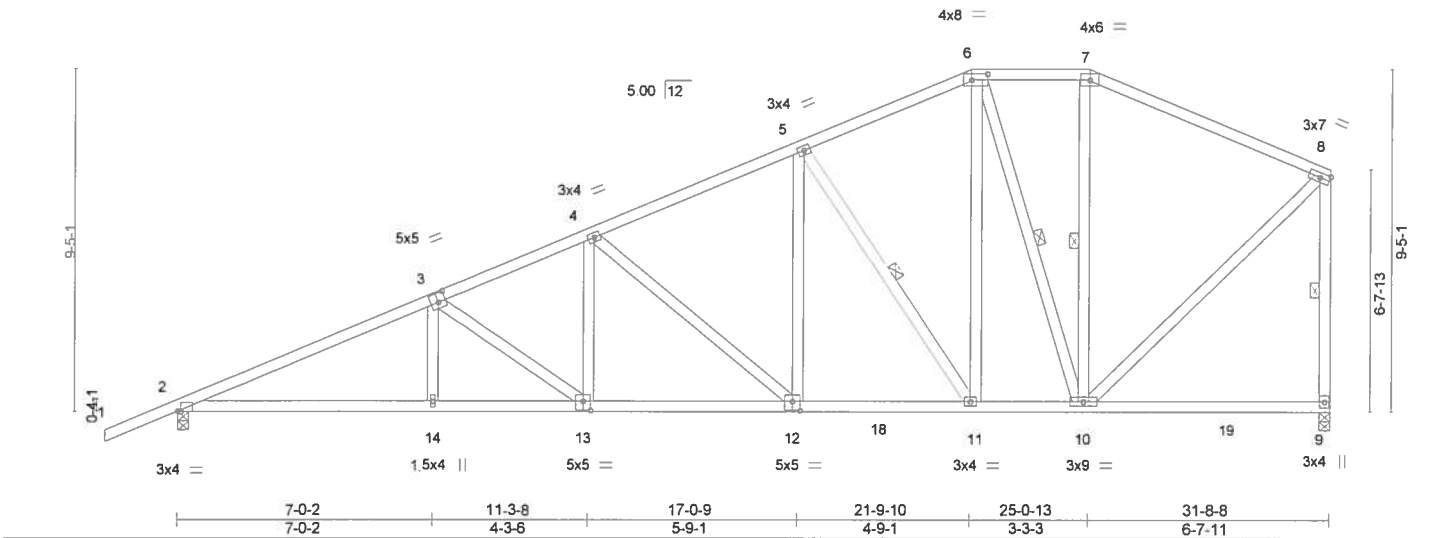
Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790954
Blackwell_Rev1	C5	Hip	1	1		

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51' 40 2019 Page 1
ID WSn6HtHfQPID9ZH2_ROnBysEZT-TWw0vCizqg2Iviygtgf6UJDvov1DWjHAREDwyqXin

-2-0-0	7-0-2	11-3-8	17-0-9	21-9-10	25-0-13	31-8-8
2-0-0	7-0-2	4-3-6	5-9-1	4-9-1	3-3-3	6-7-11

Scale = 1.59 8



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.85	Vert(LL) -0.12	13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.70	Vert(CT) -0.25	12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.08	9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS					Weight: 215 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-11, 6-10, 7-10, 8-9

REACTIONS. (lb/size)	2=1386/0-3-8, 9=1259/0-3-8
Max Horz	2=246(LC 11)
Max Uplift	2=48(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2636/567, 3-4=-2170/536, 4-5=-1601/449, 5-6=-1065/385, 6-7=-744/340, 7-8=-879/323, 8-9=-1194/352
BOT CHORD	2-14=-770/2369, 13-14=-772/2365, 12-13=-635/1941, 11-12=-462/1426, 10-11=-306/943
WEBS	3-13=-513/169, 4-13=-41/411, 4-12=-682/225, 5-12=-73/601, 5-11=-875/281, 6-11=-205/784, 6-10=-648/179, 8-10=-260/1001

- 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=32ft; eave=4ft; Cat. II; Exp B; Encl.; GCpj=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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 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.



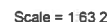
Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

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Tampa, FL 33610

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 41 2019 Page 1
ID: WSn6HtHfQPID9ZVH2 ROnBysEZT-xiTO7Yjbb AcXsX8ROAyfrhOACIMyvOsWqABIMyqXim



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

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-11

REACTIONS. (lb/size) 2=1386/0-3-8, 9=1259/0-3-8
Max Horz 2=257(LC 11)
Max Uplift 2=-48(LC 12)

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

TOP CHORD 2-3=-2641/576, 3-4=-2168/541, 4-5=-1603/457, 5-6=-942/361, 6-7=-939/359,
7-8=-379/196, 8-9=-2268/331

BOT CHORD 2-14=-780/2382, 13-14=-780/2382, 12-13=-638/1953, 11-12=-470/1468, 10-11=-145/346

WEBS 3-13=-527/171, 4-13=-43/408, 4-12=-665/220, 5-12=-67/614, 5-11=-955/306,
6-11=-72/374, 7-11=-182/747, 7-10=-1059/425, 8-10=-338/1201

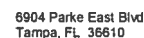
- 1) Unbalanced roof live loads has been considered for this design
- 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCDD=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Encl., GCpI=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; and 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.
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- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
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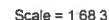
August 6, 2019

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8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 43 2019 Page 1
ID WSn6HtHfQPID9ZVH2 ROnBysEZT-u5b9YEI7rbQKmA hXZocQk6xp ?0QQ ?9z8flpFvgXik



WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED LITERATURE REFERENCE PAGE IMMEDIATELY PRIOR TO 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	Blackwell Rev1	T17790957
Blackwell_Rev1	CJ1	Diagonal Hip Girder	1	1		

Mayo Truss Company, Inc., Mayo, FL - 32066, 8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 44 2019 Page 1
ID WSn6HtHfQPID9ZVH2_ROnBysEZT-MH9XlamTuvYBOKGj6WJfGKT7zPFO9MEJCoPrMhyqXij

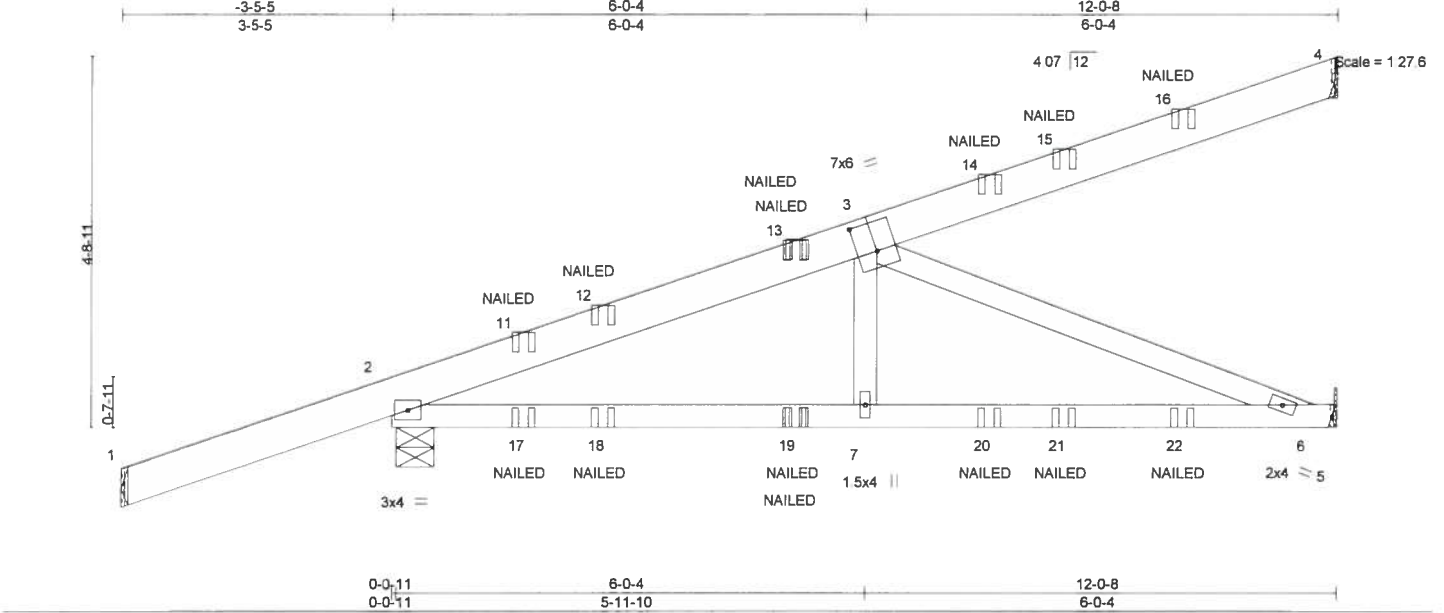


Plate Offsets (X,Y) -		[3-0-3-0,0-4-8]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.10	6-7	>999	240	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.23	6-7	>613	180			
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.55	Horz(CT)	0.02	5	n/a	n/a			
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS								
									Weight: 68 lb	FT = 0%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (lb/size) 4=247/Mechanical, 2=777/0-5-12, 5=430/Mechanical
Max Horz 2=140(LC 8)
Max Uplift 4=-62(LC 8), 2=-164(LC 8), 5=-2(LC 5)
Max Grav 4=247(LC 1), 2=777(LC 1), 5=442(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-981/88
BOT CHORD 2-7=-134/870, 6-7=-135/864
WEBS 3-7=0/399, 3-6=-934/146

- 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); cantilever left and right exposed; end vertical left and right exposed; 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) 4, 5 except (jt=lb) 2=164.
 - 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 12=31(F) 13=-17(B) 14=-25(F) 15=-102(B) 16=-70(F) 17=7(B) 19=-13(F=6, B=-19) 20=-12(F) 21=-55(B) 22=-33(F)



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MiTek USA, Inc. FL Cert 6634
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Date:

August 6,2019

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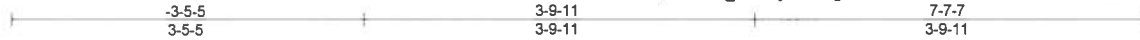
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790958
Blackwell_Rev1	CJ2	Diagonal Hip Girder	2	1	Job Reference (optional)	

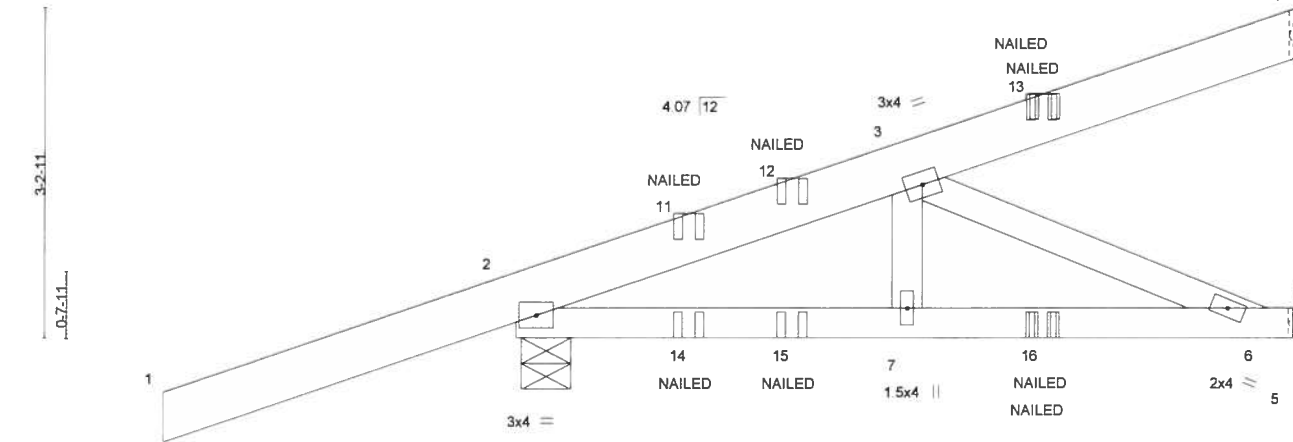
Mayo Truss Company, Inc., Mayo, FL - 32066,

8 220 s Nov 16 2018 MiTek Industries, Inc Tue Aug 6 14:51:46 2019 Page 1

ID WSn6HfQPID9ZVH2_ROnBysEZT-IgGHAFnkQWouddQ6Exm7MIZMZD6XdMNBg6uyQayqXih



Scale = 1/2" = 1'



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.39	Vert(LL) 0.02	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.25	Vert(CT) -0.03	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.06	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MP						
							Weight: 46 lb	FT = 0%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 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) 4=124/Mechanical, 2=540/0-5-12, 5=139/Mechanical
Max Horz 2=104(LC 24)
Max Uplift 4=-34(LC 8), 2=-151(LC 8), 5=-35(LC 5)
Max Grav 4=125(LC 17), 2=540(LC 1), 5=175(LC 3)

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

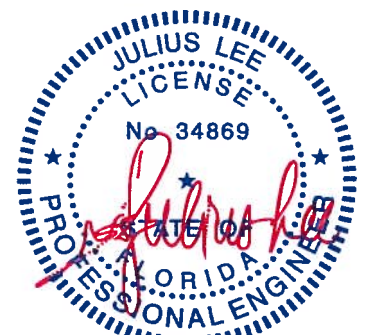
TOP CHORD 2-3=-310/75
BOT CHORD 2-7=-97/262, 6-7=-97/262
WEBS 3-6=-287/106

NOTES-

- 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., GCpl=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=151.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 12=31(F) 13=-17(B) 14=7(B) 16=-13(F=6, B=-19)



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
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August 6, 2019

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790959
Blackwell_Rev1	D2	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 47 2019 Page 1
ID WSn6HtHfQID9ZVH2_R0nBysEZT-msqfNboMBqwlFn?loeHMuy5XAcOKMoYlumdVy0yqXig

Scale = 1/43.7

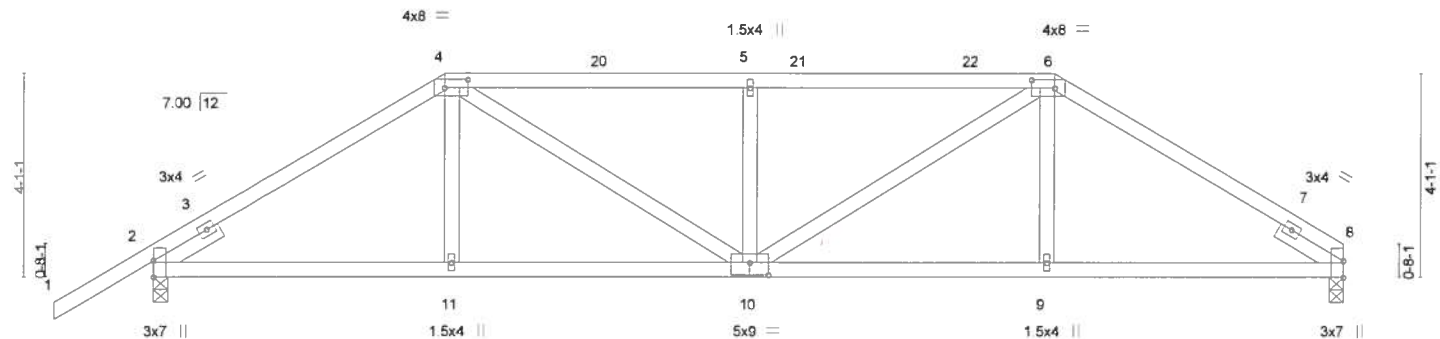


Plate Offsets (X,Y)--		[2.0-4.0-Edge], [4.0-5-8.0-2-0], [6.0-5-8.0-2-0], [8.0-4.0-Edge], [10.0-4-8.0-3-0]					
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.06 10-11 >999 240
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.14 10-11 >999 180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.04 8 n/a n/a
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS			
						PLATES	GRIP
						MT20	244/190
						Weight: 118 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 8=955/0-3-8, 2=1085/0-3-8
Max Horz 2=75(LC 11)
Max Uplift 2=51(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1385/270, 4-5=-1576/357, 5-6=-1576/357, 6-8=-1405/278
BOT CHORD 2-11=-148/1124, 10-11=-145/1128, 9-10=-154/1151, 8-9=-156/1147
WEBS 4-10=-111/592, 5-10=-422/181, 6-10=-92/578

- 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) 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.
 - 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.



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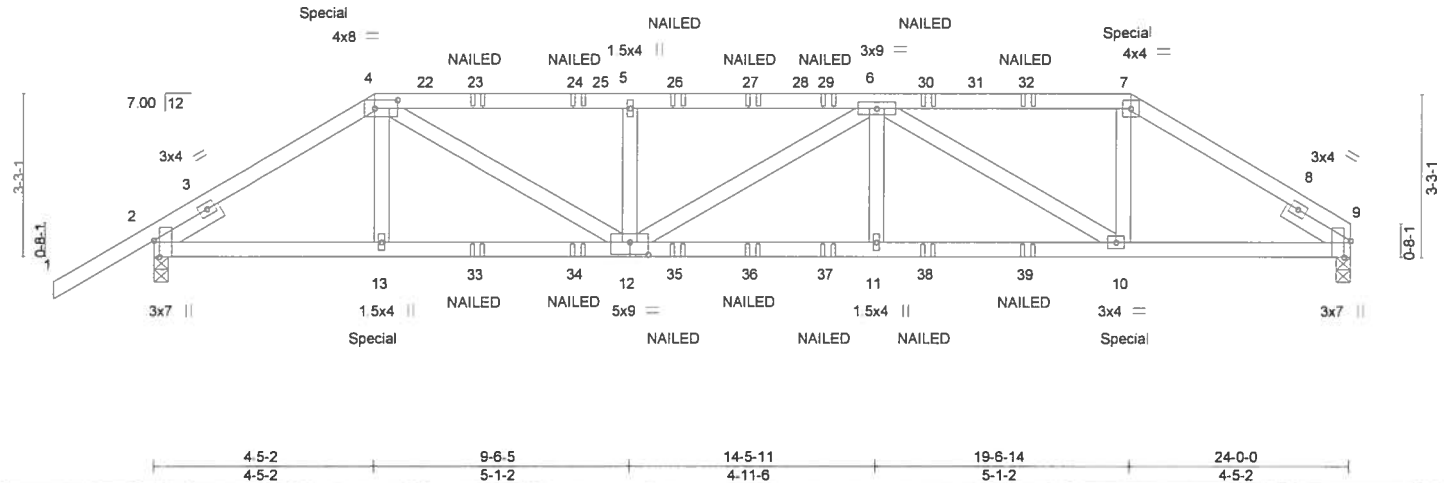
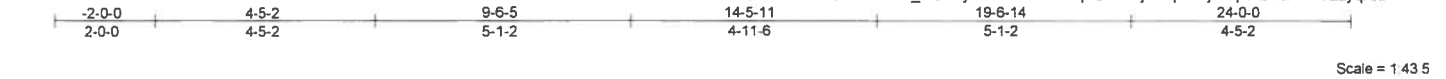


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790960
Blackwell_Rev1	D2GIR	Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 50 2019 Page 1
ID: WSn6HtHfQPID9ZVH2_ROnBysEZT-ARW0dQEUlIK6FjtTnq3WbJ0AqK7Z8ZBaks9ZLyqXd



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.54	Vert(LL) -0.10	11-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.78	Vert(CT) -0.22	11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.24	Horz(CT) 0.07	9	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014	Matrix-MS					Weight: 243 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 9=1931/0-3-8, 2=2061/0-3-8
Max Horz 2=60(LC 7)
Max Uplift 9=55(LC 8), 2=-109(LC 8)

FORCES. (lb) - Max, Comp./Max, Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3100/98, 4-5=-4283/97, 5-6=-4283/97, 6-7=-2672/111, 7-9=-3130/112
BOT CHORD 2-13=-49/2583, 12-13=-47/2591, 11-12=-39/4289, 10-11=-39/4289, 9-10=-52/2615
WEBS 4-13=0/351, 4-12=-2/1975, 5-12=-688/136, 6-11=0/453, 6-10=-1917/0, 7-10=0/1158

- NOTES-**
- 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: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (it=lb) 2=109.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 216 lb down and 125 lb up at 4-5-2, and 216 lb down and 125 lb up at 19-6-14 on top chord, and 208 lb down and 41 lb up at 4-5-2, and 208 lb down and 41 lb up at 19-6-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building 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.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790960
Blackwell_Rev1	D2GIR	Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 50 2019 Page 2
ID WSn6HIHfQPID9ZVH2_ROnBysEZT-ARWo0dqEUlIK6FjITnq3Wbj0AqK7Z8ZBaks9ZLyqXid

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 7-9=-60, 14-18=-20

Concentrated Loads (lb)

Vert: 4=-172(F) 7=-172(F) 13=-173(F) 10=-173(F) 23=-121(F) 24=-121(F) 26=-121(F) 27=-121(F) 29=-121(F) 30=-121(F) 32=-121(F) 33=-59(F) 34=-59(F)
35=-59(F) 36=-59(F) 37=-59(F) 38=-59(F) 39=-59(F)

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

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6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790961
Blackwell_Rev1	D3	Hip	1	1	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 52 2019 Page 1
ID WSn6HfHfQPID9ZVH2_ROnBysEZT-7qeYRJsV?MY2LYIGaBIXb0oNmD5l148U22LGeEYqXib

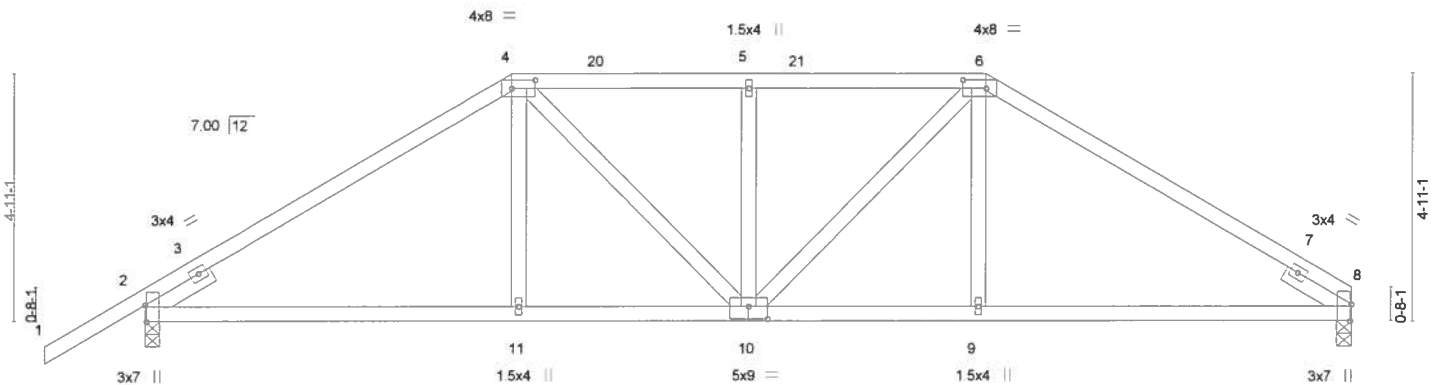


Plate Offsets (X, Y) --		[2-0-4-0,Edge], [4-0-5-8,0-2-0], [6-0-5-8,0-2-0], [8-0-4-0,Edge], [10-0-4-8,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	-0.05	9-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.13	9-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.04	8	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 121 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 8=955/0-3-8, 2=1085/0-3-8
Max Horz 2=89(LC 11)
Max Uplift 2=51(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1341/263, 4-5=-1253/305, 5-6=-1253/305, 6-8=-1355/269
BOT CHORD 2-11=-123/1072, 10-11=-121/1076, 9-10=-127/1093, 8-9=-129/1089
WEBS 4-11=0/250, 4-10=-48/342, 5-10=-293/108, 6-10=-30/331, 6-9=0/255

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 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.



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Date:

August 6, 2019

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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.

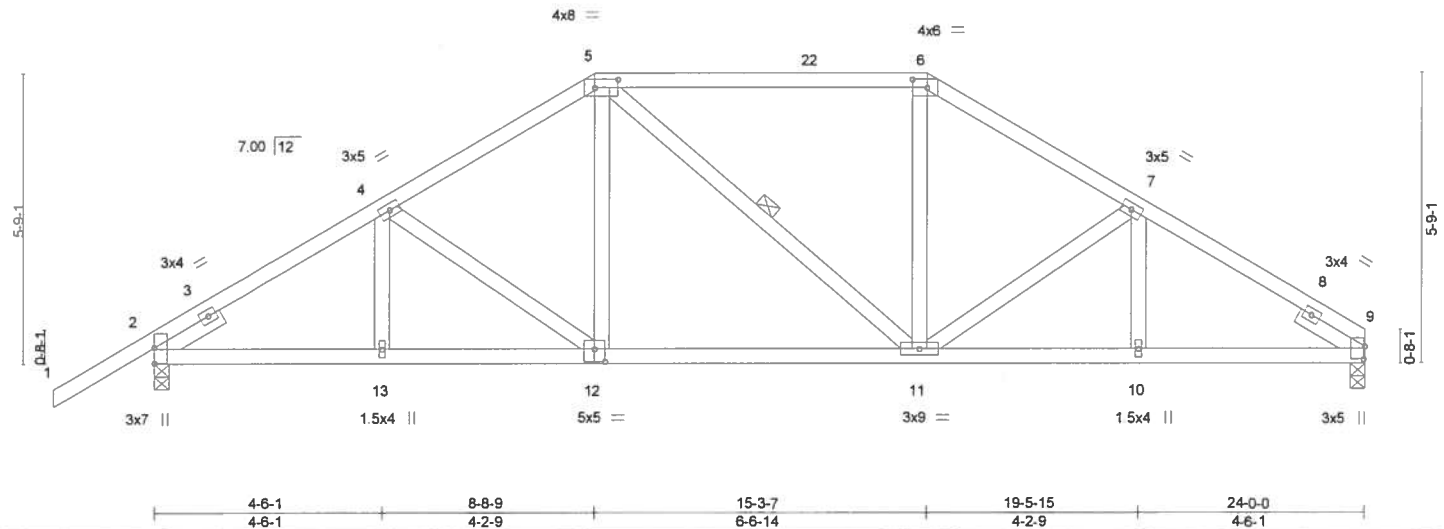
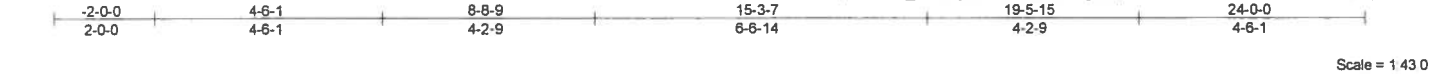


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Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790962
Blackwell_Rev1	D4	Hip	1	1		

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14:51:53 2019 Page 1
ID: WSn6HtHfQPID9ZVH2_ROnBysEZT-b0Bxft7mghvziSS8vOm8DLXo1QemXCdHi4qAgyqXia



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 0.46	Vert(LL)	-0.05	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.13	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.04	9	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 134 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11

REACTIONS. (lb/size) 9=955/0-3-8, 2=1085/0-3-8
Max Horz 2=104(LC 11)
Max Uplift 2=51(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1389/253, 4-5=-1194/269, 5-6=-1006/269, 6-7=-1210/270, 7-9=-1422/265
BOT CHORD 2-13=-152/1137, 12-13=-152/1137, 11-12=-82/999, 10-11=-165/1172, 9-10=-165/1172
WEBS 4-12=-262/85, 5-12=0/317, 6-11=0/322, 7-11=-262/100

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 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.



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Date:

August 6, 2019

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8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 54 2019 Page 1
QPID9ZVH2_R0nBysEZT-3CIJr_tIXzpmbs1eicv?gRukIRnmVymnVMqNi6yqXiZ

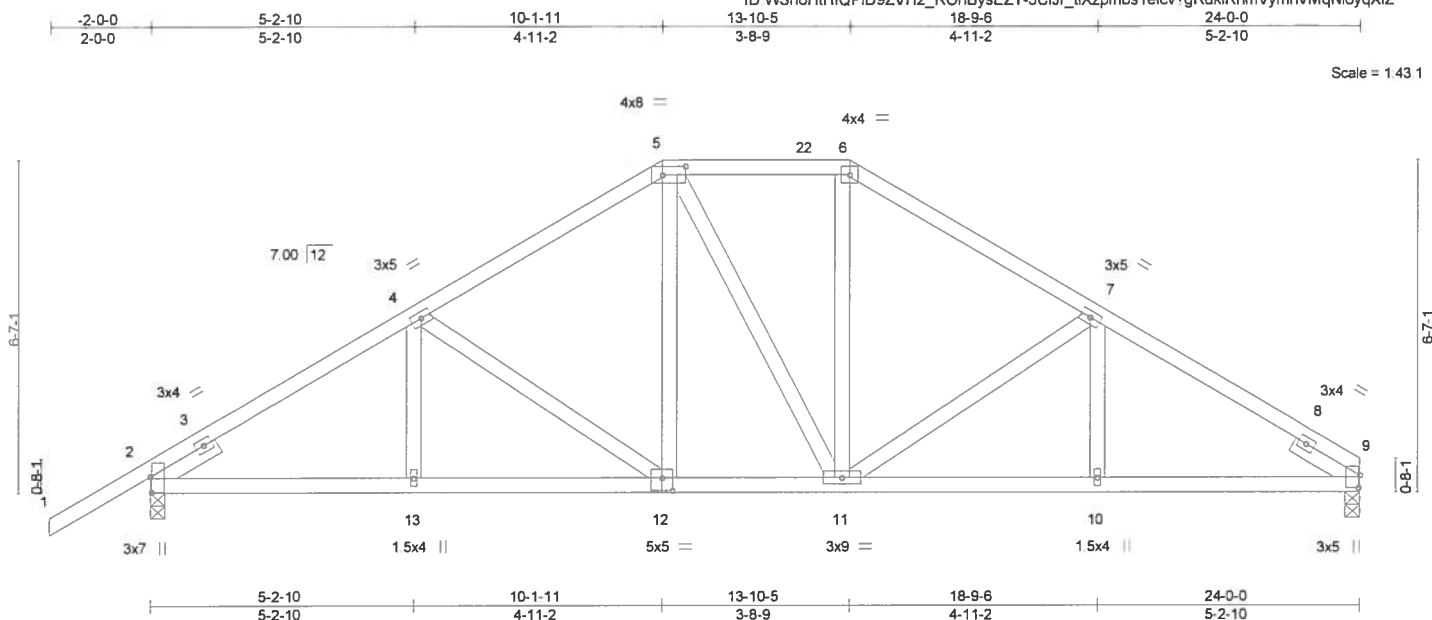


Plate Offsets (X,Y)– [2.0-3-12.0-0-5], [5.0-5-8.0-2-0], [9.0-3-0.0-0-5], [12.0-2-8.0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.05 12-13	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.11 12-13	>999	180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.04 9	n/a	n/a
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS					
								Weight: 139 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No 2 1-6-0. Right 2x4 SP No.2 1-6-0

BRACING-	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (lb/size) 9=955/0-3-8, 2=1085/0-3-8
Max Horz 2=118(LC 11)
Max Uplift 2=-51(LC 12)

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

TOP CHORD 2-4=-1398/249, 4-5=-1119/262, 5-6=-904/262, 6-7=-1117/262, 7-9=-1425/259

BOT CHORD 2-13=-142/1144, 12-13=-142/1144, 11-12=-46/901, 10-11=-153/1174, 9-10=-153/1174

WEBS 4-12=-365/117, 5-12=-19/302, 6-12=-21/307, 7-11=-364/130

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10, Vult=130mph (3-second gust) Vasd=101mph; TCFL=6.0psf; BCLD=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cal. 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) 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.
- 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.



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August 6, 2019

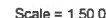
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED LITERATURE PAGE MP-777-01, 10/01/2017 BEFORE USE.
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8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 56 2019 Page 1
P D9ZVH2 ROnBysEZT-?bl3Ggv?3b3UqAB1p1xTmsz48FTczq84zgJUn?yqXiX



- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDF=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl. GCp1=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) 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.
- 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.



August 6, 2019

WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED WINTER REFERENCE PAGE (M17-001) FOR CRITICAL USE.
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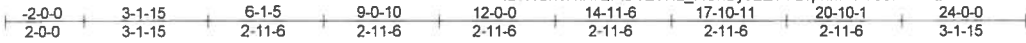


Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790965
Blackwell_Rev1	D7GIR	Common Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 58 2019 Page 1

ID WSn6HtHfQPID9ZVH2_R0nBysEZT-xz7phMwFbCJB4TKQxSzrH2MG220RguMQzobrtyqXIV



Scale = 1:55.3

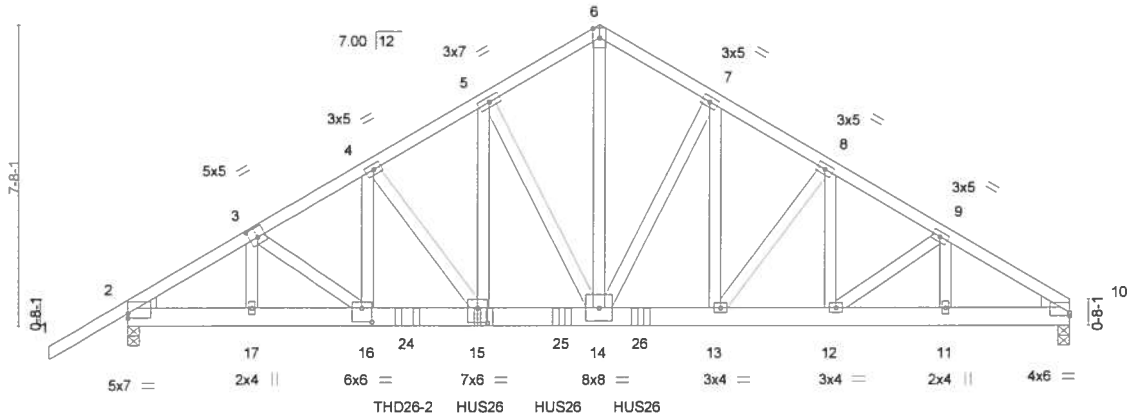


Plate Offsets (X,Y) - [2 0-0-0,0-1-8], [3 0-2-8,0-3-0], [10 0-0-0,0-1-0], [15 0-3-0,0-4-8], [16 0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	Vert(LL) -0.13	15-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.84	Vert(CT) -0.25	15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.61	Horz(CT) 0.06	10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 369 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP SS *Except*
10-15: 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 10=3456/0-3-8, 2=4973/0-3-8
Max Horz 2=136(LC 7)
Max Uplift 10=-56(LC 8), 2=-170(LC 8)

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

TOP CHORD 2-3=-7660/172, 3-4=-8635/250, 4-5=-7543/228, 5-6=-5611/193, 6-7=-5610/193,
7-8=-5899/169, 8-9=-5951/143, 9-10=-5536/110
BOT CHORD 2-17=-114/6509, 16-17=-117/6549, 15-16=-144/7453, 14-15=-80/6370, 13-14=-32/5042,
12-13=-51/5133, 11-12=-64/4689, 10-11=-64/4689
WEBS 6-14=-152/5376, 7-14=-457/45, 7-13=0/423, 8-13=-284/113, 9-12=-78/603,
9-11=-577/42, 5-14=-3290/147, 5-15=-111/3745, 4-15=-1674/103, 4-16=-59/1679,
3-16=-82/1155, 3-17=-1195/89

NOTES-

- 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 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- 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; MVFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=170.
- Use USP THD26-2 (With 16d nails into Girder & 10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
- Use USP HUS26 (With 16d nails into Girder & 16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 13-0-12 to connect truss(es) to back face of bottom chord.

On all other places where hanger is in contact with lumber.



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August 6, 2019

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	
Blackwell_Rev1	D7GIR	Common Girder	1	2	Job Reference (optional)	T17790965

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 58 2019 Page 2
ID WSn6HtHfQPID9ZVH2_RONBysEZT-xz?phMwFbCJB4TKQxSzxH2MG220RguMQzobrtqXiV

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-10=-60, 18-21=-20

Concentrated Loads (lb)

Vert: 15=-1243(B) 24=-2659(B) 25=-1243(B) 26=-1243(B)

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790966
Blackwell_Rev1	E1GE	Common Supported Gable	1	1		

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 51 59 2019 Page 1
ID WSn6HfHfQPI9ZVH2_R0nBysEZT-QAZCvixuMWR2hdvcVAVANUbcNsboAFLWfdX80KyqXiU

-2-0-0 11-0-0 22-0-0 24-0-0
2-0-0 11-0-0 11-0-0 2-0-0

Scale 1/4"=1'

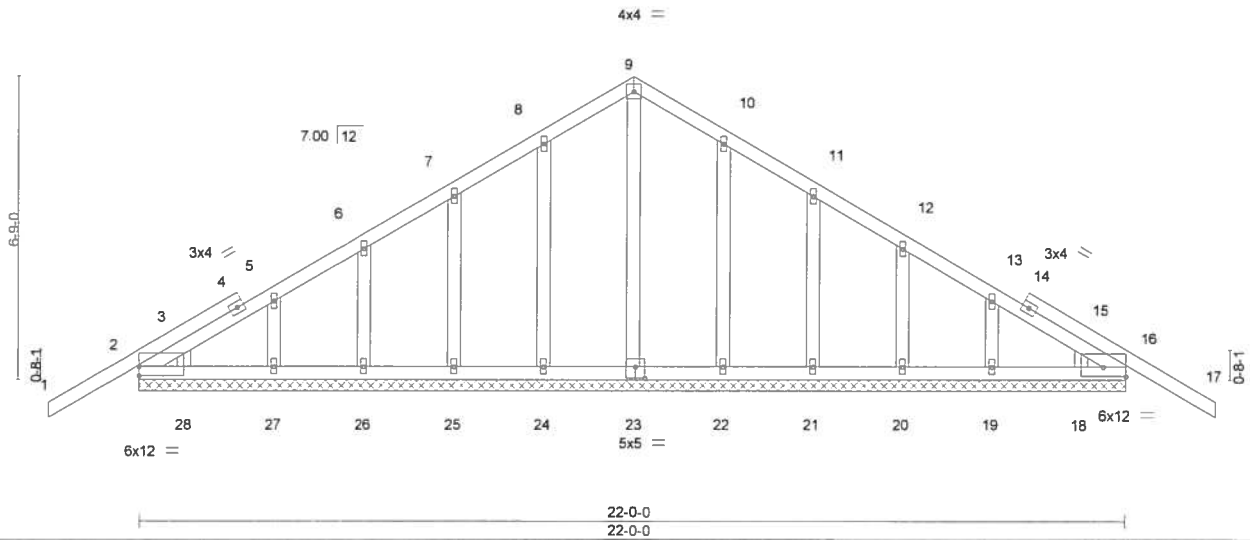


Plate Offsets (X,Y)-	[2-0-3-1,0-0-0], [2-Edge,0-2-8], [3-0-1-12,0-1-0], [15-0-1-12,0-1-0], [16-Edge,0-2-8], [16-0-3-1,0-0-0], [18-0-1-12,0-0-0], [23-0-2-8,0-3-0], [28-0-1-12,0-0-0]
----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.26	Vert(LL) -0.02	17	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.04	Vert(CT) -0.03	17	n/r	120		
BCLL 0.0	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00	16	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S					Weight: 135 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 2=126(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18 except 2=283(LC 1), 16=283(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, 26, 27, 28, 22, 21, 20, 19, 18.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790967
Blackwell_Rev1	E2	Common	3	1		

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 01 2019 Page 1
ID WSn6HIHQPID9ZVH2_RONBySEZT-MYgyJOz8u7hmxx3_caXeSvgyqGBae6ep6x0FSCyqXiS



Scale = 1/4" = 1'

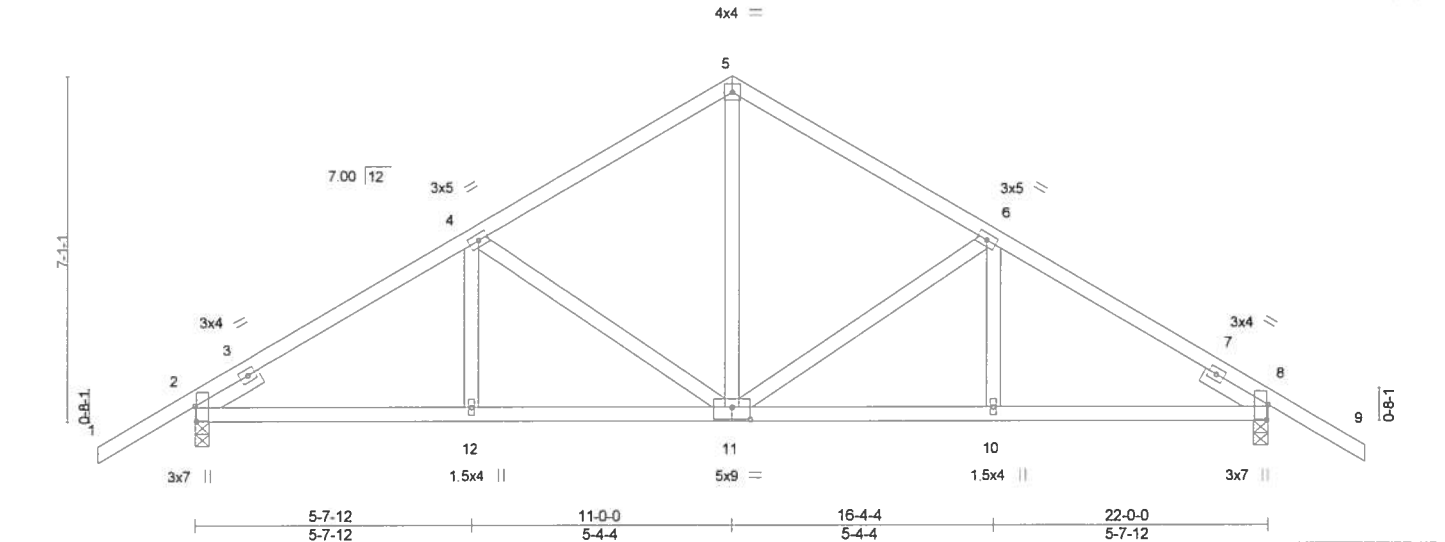


Plate Offsets (X,Y)--		[2-0-3-12,0-0-5], [8-0-3-12,0-0-5], [11-0-4-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26
TCDL 10.0	Lumber DOL	1.25	BC 0.40
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29
BCDL 10.0	Code	FBC2017/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.04 10-11 >999 240
			Vert(CT) -0.09 11-12 >999 180
			Horz(CT) 0.04 8 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 120 lb FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=1000/0-3-8, 8=1000/0-3-8
Max Horz 2=-131(LC 10)
Max Uplift 2=-49(LC 12), 8=-49(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1242/211, 4-5=-917/218, 5-6=-917/218, 6-8=-1242/211
BOT CHORD 2-12=-57/1010, 11-12=-57/1010, 10-11=-68/1010, 8-10=-68/1010
WEBS 5-11=-77/553, 6-11=-401/131, 4-11=-401/131

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



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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790968
Blackwell_Rev1	E3	Common	7	1		

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14:52:02 2019 Page 1
ID WSn6HtHfQPID9ZVH2_R0nBysEZT-qIEKXkzmfRpdY5eBAI2I7D7fIXINZryLbmo_fyqXIR



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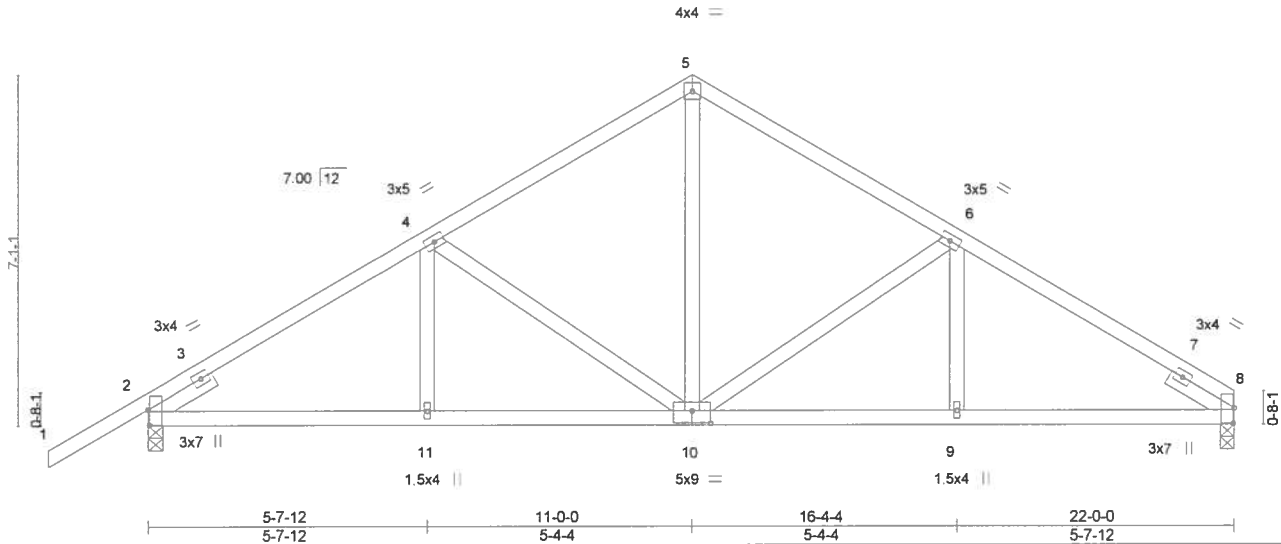


Plate Offsets (X,Y)-- [2.0-3-12,0-0-5], [8.0-3-12,0-0-5], [10.0-4-8,0-3-0]

LOADING (psf)	SPACING-		CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.04	10-11	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.09	10-11	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.03	8	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 117 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

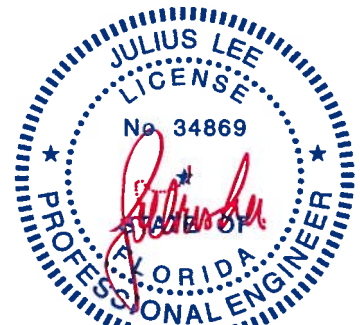
(lb/size) 8=875/0-3-8, 2=1005/0-3-8
Max Horz 2=126(LC 11)
Max Uplift 2=52(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1252/219, 4-5=-927/226, 5-6=-928/227, 6-8=-1273/227
BOT CHORD 2-11=-111/1018, 10-11=-111/1018, 9-10=-120/1043, 8-9=-120/1043
WEBS 5-10=-88/563, 6-10=-402/143, 4-10=-401/132

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790969
Blackwell_Rev1	F1GE	Common Supported Gable	1	1		

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 05 2019 Page 1

ID WSn6HtHfQPID9ZVH2_R0nBysEZT-EKwT9I0exMBCPYNmrQcadreidLaynO1Z_SbzyqXiO

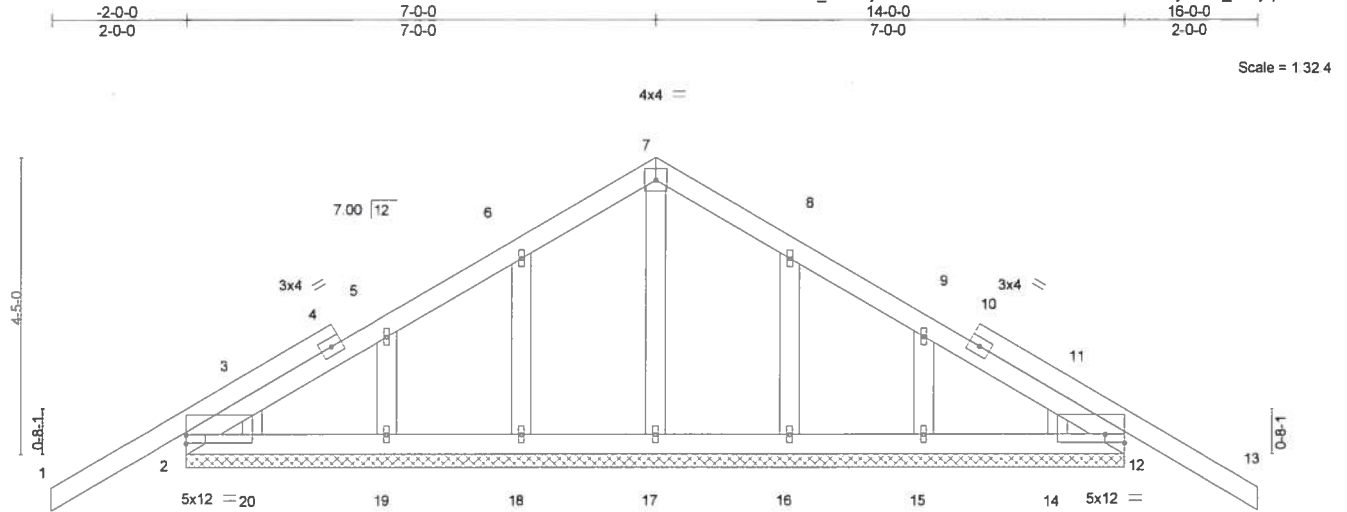


Plate Offsets (X,Y) -	[2:0-1-12,0-0-0], [3:0-1-12,0-1-0], [11:0-1-12,0-1-0], [12:0-1-12,0-0-0], [14:0-1-12,0-0-0], [14:Edge,0-1-8], [20:0-1-12,0-0-0], [20:Edge,0-1-8]
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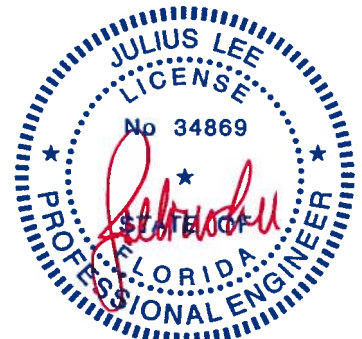
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL)	-0.03 12-13	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.10	Vert(CT)	-0.05 12-13	n/r	120		
BCLL 0.0	Rep Stress Incr YES	WB 0.08	Horz(CT)	-0.00 14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S					Weight: 80 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS.	All bearings 14-0-0.
(lb) - Max Horz	20=85(LC 11)
Max Uplift	All uplift 100 lb or less at joint(s) 17, 18, 19, 20, 16, 15, 14
Max Grav	All reactions 250 lb or less at joint(s) 18, 19, 16, 15 except 17=319(LC 1), 20=324(LC 21), 14=324(LC 22)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	7-17=283/38

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - 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.
 - All plates are 1x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 18, 19, 20, 16, 15, 14.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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August 6, 2019

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790970
Blackwell_Rev1	F2	Common	1	1		

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 06 2019 Page 1
ID WSn6HIHfQPID9ZVH2_ROnBysEZT-iWUrN51HfJ31iyyP87p9zOqfHvCJP5YGdk07QyqXiN

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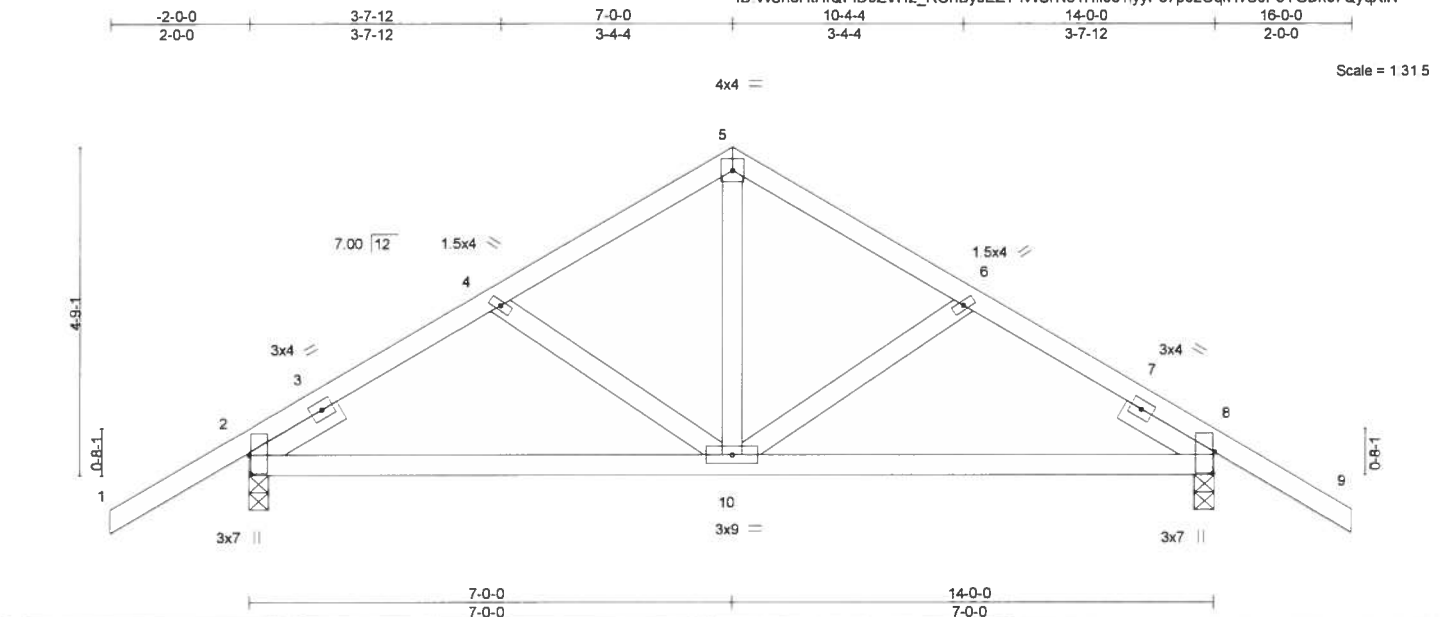


Plate Offsets (X,Y)--		[2-0-3-4,0-0-5], [8-0-3-12,0-0-5]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.25		Vert(LL)	-0.03 10-13	>999	240	MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.38		Vert(CT)	-0.06 10-13	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.08		Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0		Code FBC2017/TP12014		Matrix-AS						Weight: 75 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 1-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(lb/size) 2=680/0-3-8, 8=680/0-3-8
Max Horz 2=-91(LC 10)
Max Uplift 2=-49(LC 12), 8=-49(LC 12)

FORCES.

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

TOP CHORD 2-4=-691/143, 4-5=-557/122, 5-6=-557/122, 6-8=-691/143
BOT CHORD 2-10=-13/558, 8-10=-27/558
WEBS 5-10=-12/352

NOTES-

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



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790971
Blackwell_Rev1	F3GIR	Common Girder	1	2	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 07 2019 Page 1

ID WSn6HtHfQPID9ZVH2_R0nBysEZT-Bi2DaR1vTzRwfsX8zre2iAwvrg682nmhVtTZgsyqXIM

-2-0-0 3-7-12 7-0-0 10-4-4 14-0-0
2-0-0 3-7-12 3-4-4 3-4-4 3-7-12

4x4 =

Scale = 1/32" = 1'

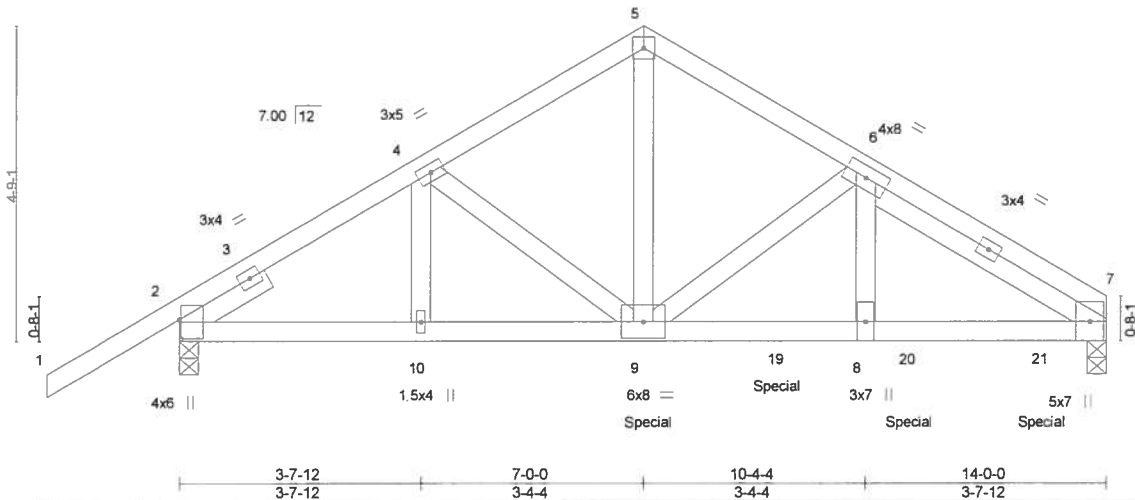


Plate Offsets (X,Y)-- [2-0-3-8,0-0-5]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	-0.06	8-9	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.13	8-9	>999	180	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.03	7	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 163 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 4-0-14

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=4665/0-3-8, 2=2637/0-3-8
Max Horz 2=86(LC 24)

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

TOP CHORD 2-4=-3930/0, 4-5=-4143/0, 5-6=-4162/0, 6-7=-4160/0
BOT CHORD 2-10=0/3274, 9-10=0/3274, 8-9=0/5100, 7-8=0/5157
WEBS 5-9=0/3870, 6-9=-1943/0, 6-8=0/2114, 4-9=-86/470, 4-10=-303/0

NOTES-

- 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: 2x4 - 1 row at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-6-0 oc, Except member 9-6 2x4 - 1 row at 0-9-0 oc, member 6-8 2x4 - 1 row at 0-9-0 oc, member 9-4 2x4 - 1 row at 0-9-0 oc, member 4-10 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2331 lb down and 61 lb up at 7-1-8, 1243 lb down at 9-0-12, and 1243 lb down at 11-0-12, and 1244 lb down at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-60, 5-7=-60, 11-15=-20
Concentrated Loads (lb)
Vert: 9=-2331(F) 19=-1243(F) 20=-1243(F) 21=-1244(F)



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MiTek USA, Inc. FL Cert 6634
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Date:

August 6, 2019



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790972
Blackwell_Rev1	G1GE	Scissor Structural	1	1	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 09 2019 Page 1
ID WSn6HtHfQPID9ZVH2_RONBysEzT-759_7739?aiouAgX4GgVhb0JKUzLWnG_yBygklyqXiK

Scale = 1/23.1

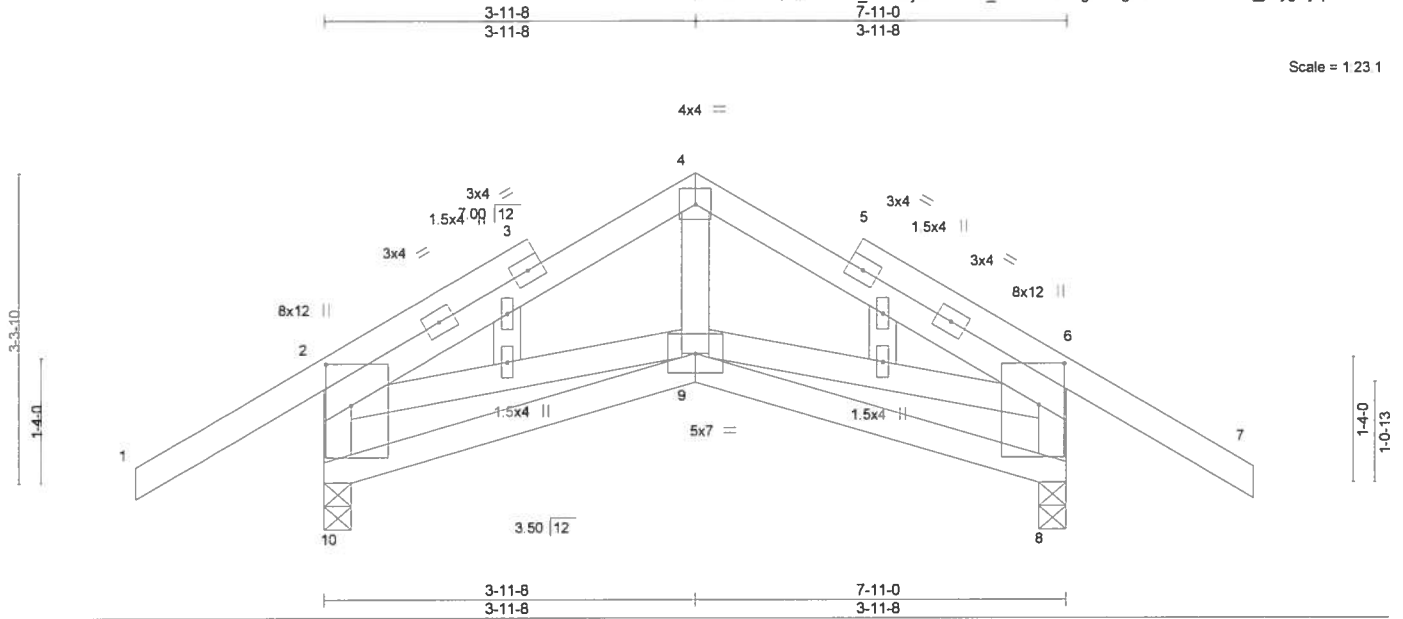


Plate Offsets (X,Y) = [2.0-5.4,0-3.4], [6.0-5.4,0-3.4], [8.0-0-8.0,0-1-12], [10.0-0-8.0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	0.04	9-10	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.03	9-10	>999	180	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.01	8	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 58 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 10=434/0-3-8, 8=434/0-3-8
Max Horz 10=82(LC 11)
Max Uplift 10=-119(LC 12), 8=-119(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-331/292, 4-6=-331/301, 2-10=-396/311, 6-8=-396/321

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 10, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=119, 8=119.
- 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.



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August 6, 2019

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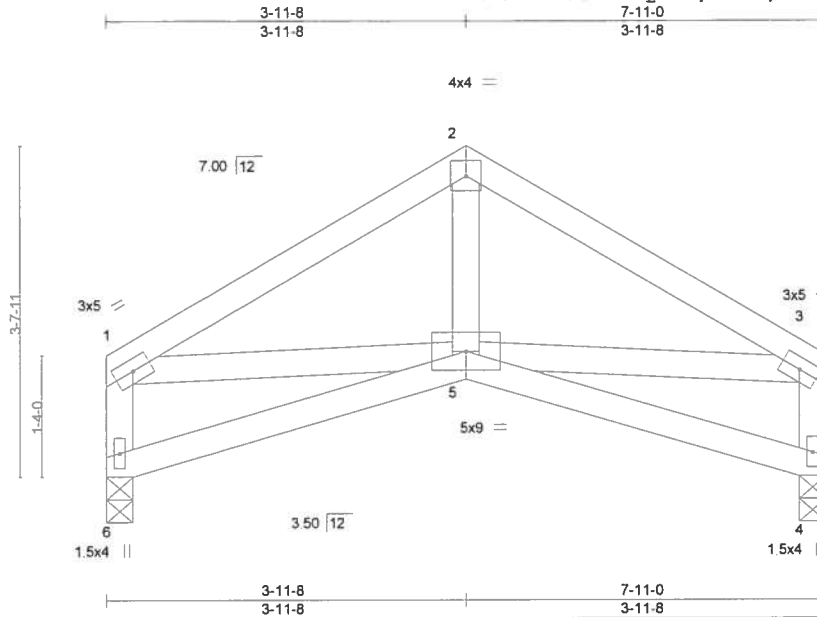


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790973
Blackwell_Rev1	G2	Scissor	2	1	Job Reference (optional)	

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

8.220 s Nov 16 2018 MiTek Industries, Inc Tue Aug 6 14 52:10 2019 Page 1
ID WSn6HtHfQPI9ZVH2_RONBysEZT-bHjMCT4nmuqUWJFjezBlKpYVwulVFEO7BrIDGByqXiJ



Scale: 1/2"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.24	Vert(LL) 0.04	5-6	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.22	Vert(CT) -0.03	5-6	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	4	n/a	n/a			
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS						Weight: 43 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.

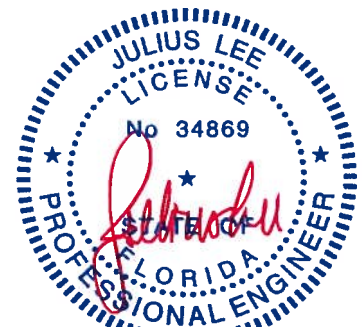
(lb/size) 6=305/0-3-8, 4=305/0-3-8
Max Horz 6=-70(LC 10)
Max Uplift 6=-66(LC 12), 4=-66(LC 12)

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

TOP CHORD 1-2=-345/322, 2-3=-345/322, 1-6=-267/214, 3-4=-267/214
WEBS 1-5=-204/258, 3-5=-239/258

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 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.



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August 6, 2019



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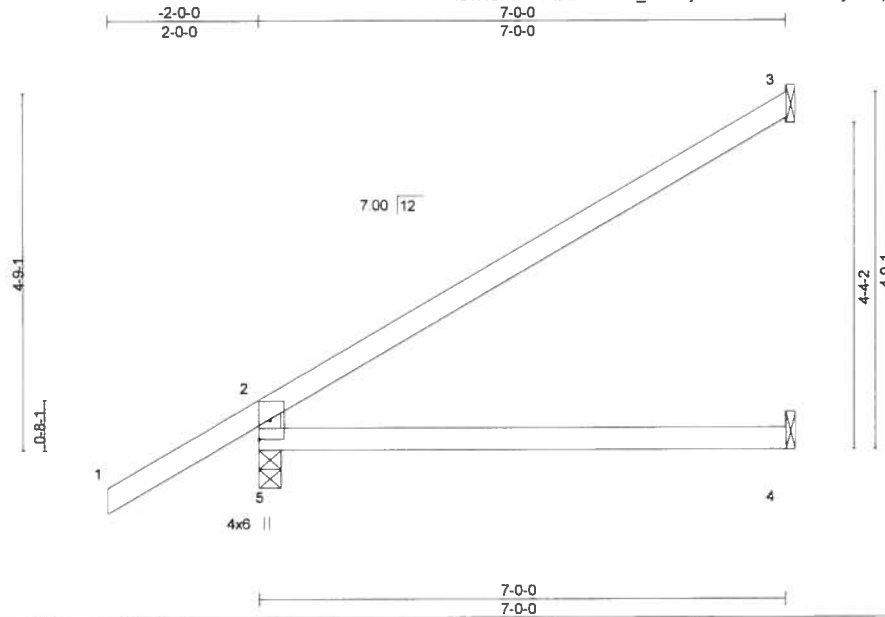


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790974
Blackwell_Rev1	J1	Jack-Open	22	1	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14:52:11 2019 Page 1
ID WSn6HtHfQPID9ZVH2_ROnBysEZT-3UHkQo4PXCyL7TqvChi_s05bcHaQ_hZHPVRnpyqXil



Scale = 1/28.9

Plate Offsets (X,Y)-- [2-0-1-0-0-1-12], [5-0-0-0-0-1-12]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.09	4-5	>901	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.20	4-5	>408	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.05	3	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-

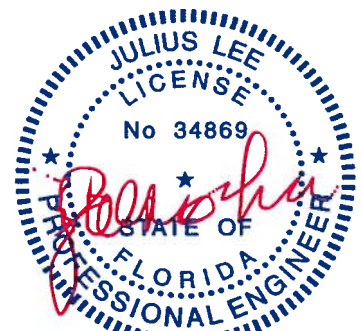
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 5=421/0-3-8, 3=179/Mechanical, 4=72/Mechanical
Max Horz 5=149(LC 12)
Max Uplift 5=28(LC 12), 3=-54(LC 12)
Max Grav 5=421(LC 1), 3=179(LC 1), 4=123(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-357/182

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) 5, 3.
- 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.



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August 6, 2019



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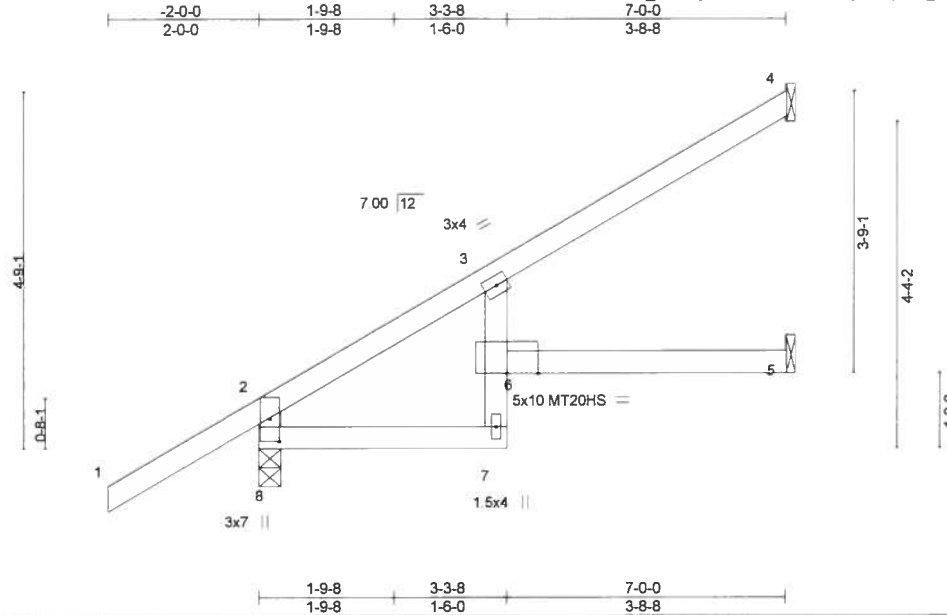
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Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790975
Blackwell_Rev1	J1A	Jack-Open	5	1	Job Reference (optional)	

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52:11 2019 Page 1

ID WSn6HtHfQPID9ZVH2_R0nBysEZT-3UHkQo4PXCyL7TqvChl_s05dQH2p_hZHPVRnpdyqXil



Scale = 1/289

Plate Offsets (X,Y)-- [8 0-3-9,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	0.09	5-6	>864	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.19	5-6	>440	180	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.06	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS							
									Weight: 29 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.

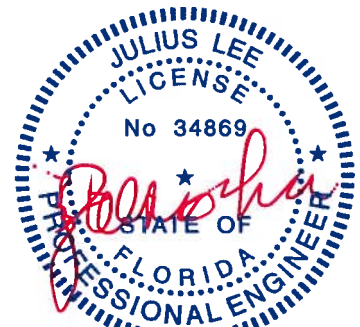
(lb/size) 8=421/0-3-8, 4=159/Mechanical, 5=93/Mechanical
Max Horz 8=149(LC 12)
Max Uplift 8=28(LC 12), 4=38(LC 12)
Max Grav 8=421(LC 1), 4=159(LC 1), 5=113(LC 3)

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

TOP CHORD 2-8=-379/141, 2-3=-252/0

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) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4.
- 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.



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Date:

August 6, 2019



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790976
Blackwell_Rev1	J1B	Jack-Open	9	1		

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc Tue Aug 6 14 52 12 2019 Page 1
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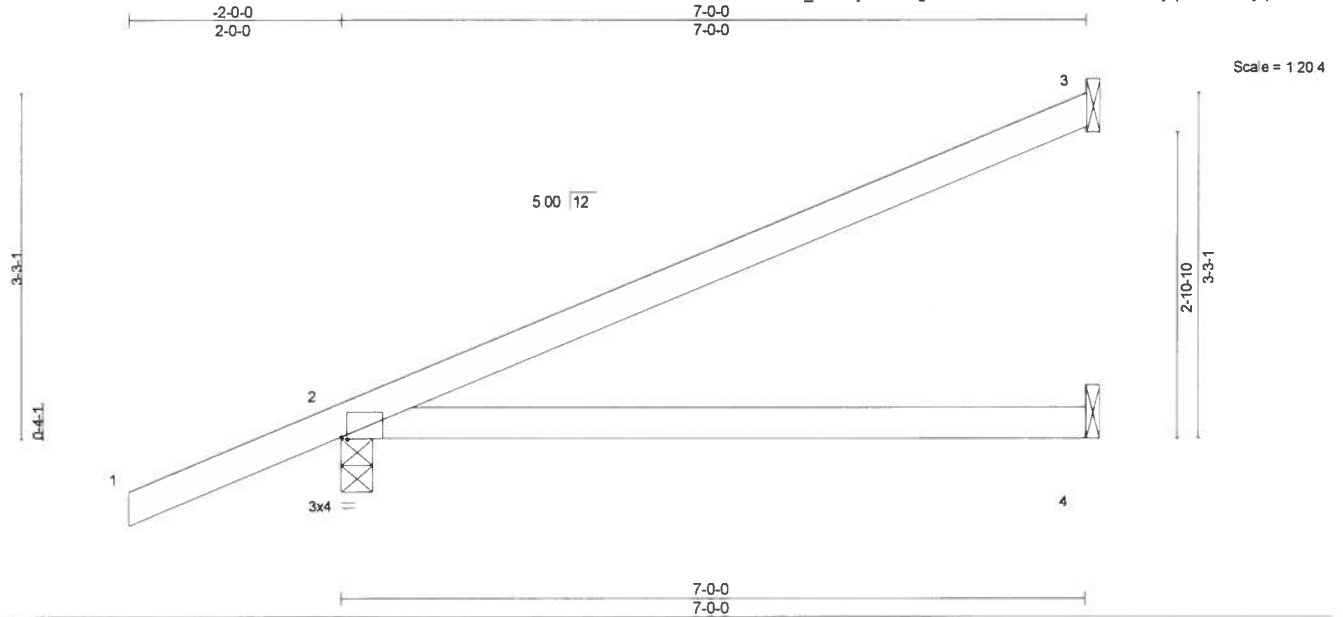


Plate Offsets (X, Y) --		[2'-0-0-10, Edge]									
LOADING (psf)	SPACING-		CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL)	-0.08	4-7	>992	240	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.20	4-7	>414	180			
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a			
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS								
										Weight: 25 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 3=181/Mechanical, 2=415/0-3-8, 4=79/Mechanical
Max Horz 2=100(LC 12)
Max Uplift 3=-36(LC 12), 2=-43(LC 12)
Max Grav 3=181(LC 1), 2=415(LC 1), 4=122(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) 3, 2.
- 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.



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Date:

August 6, 2019

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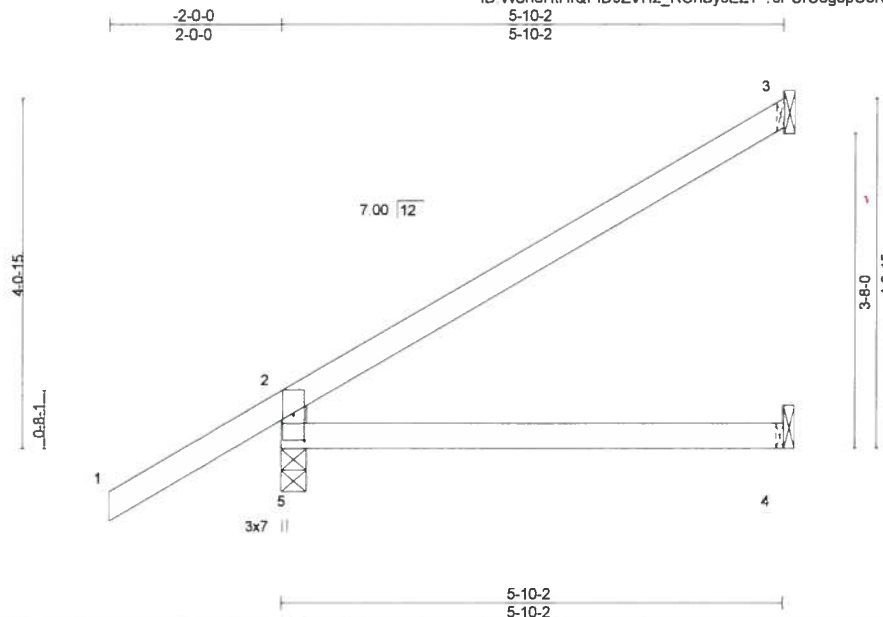


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Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790977
Blackwell_Rev1	J2	Jack-Open	1	1		

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

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 13 2019 Page 1
ID WSn6HtHfQPID9ZVH2_R0nBysEZT-7sPurU6g3pC3Nn_IJ6ISyRAzc5IXSb3atpwtWYqXiG



Scale = 1 25 3

Plate Offsets (X,Y)-- [5-0-3-9-0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.09	4-5	>722	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-AS						Weight: 23 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) 5=379/0-3-8, 3=144/Mechanical, 4=57/Mechanical
Max Horz 5=133(LC 12)
Max Uplift 5=-35(LC 12), 3=-43(LC 12)
Max Grav 5=379(LC 1), 3=144(LC 17), 4=102(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-323/176

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) 5, 3.
- 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.



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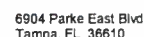
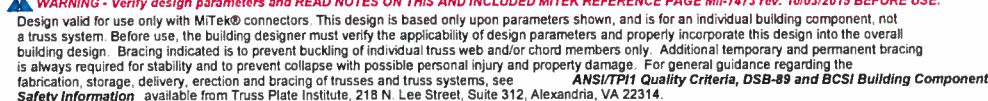
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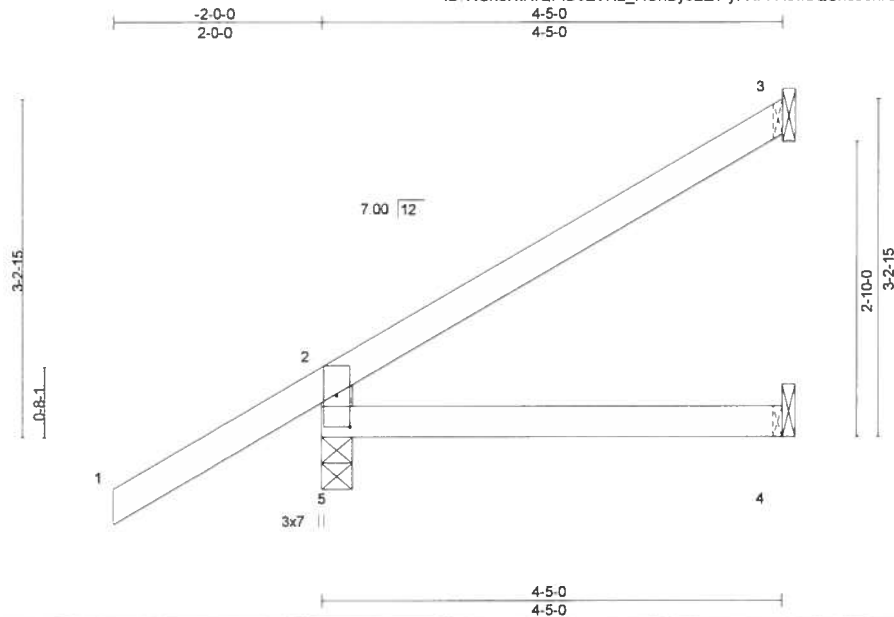
8 220 s Nov 16 2018 MiTek Industries, Inc Tue Aug 6 14 52 14 2019 Page 1
ID:WSn6HtHfQPID9ZVH2 ROnBysEZT-T2zt2q7lq7Kw xZUtpGhUfj3FVaGB2Jl6TgRQyygXlF



Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790979
Blackwell_Rev1	J3	Jack-Open	1	1	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 15 2019 Page 1
ID WSn6HtHfQPID9ZVH2_R0nBysEZT-yFxFFA8wbQSn58hRXnw1sFLnv1WwVZtK7P_yOyqXiE



Scale = 1/20

Plate Offsets (X,Y)-- [5:0-3-9,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.29	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.03	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						Weight: 18 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) 5=330/0-3-8, 3=98/Mechanical, 4=37/Mechanical
Max Horz 5=113(LC 12)
Max Uplift 5=-45(LC 12), 3=-29(LC 12)
Max Grav 5=330(LC 1), 3=100(LC 17), 4=75(LC 3)

FORCES. (lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-283/167

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) 5, 3.
- 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.



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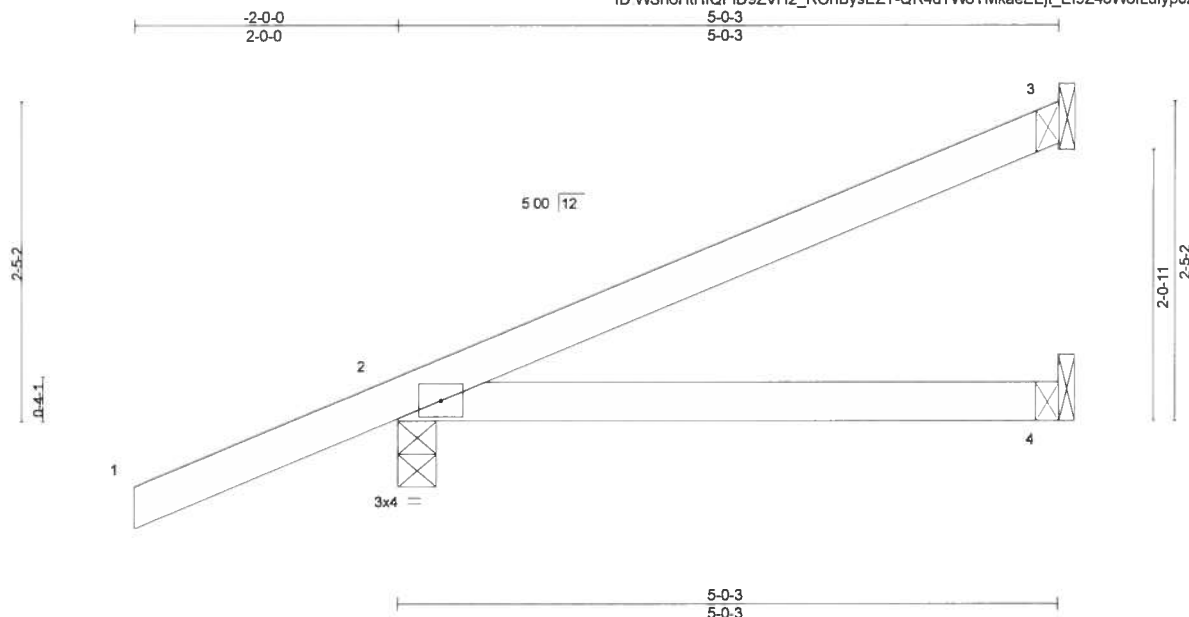
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8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 16 2019 Page 1
ID WSn6HtHfQPID9ZVH2 ROnBvsEzT-QR4dTW8YMkaeEEit EI9Z4oW6lLufvp0zn9YUrvoXid



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 0.26	Vert(LL) 0.06 4-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.22	Vert(CT) -0.05 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-AS		Weight 19 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS.

(lb/size) 3=120/Mechanical, 2=342/0-3-8, 4=53/Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=-30(LC 12), 2=-94(LC 12), 4=-14(LC 9)
Max Grav 3=120(LC 1), 2=342(LC 1), 4=86(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; TCCL=6.0psf; BCCL=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) 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) 3, 2, 4.
- 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.



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August 6, 2019



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WARNING: Verify design parameters and loads listed on this tag and included in the literature referenced. **DO NOT** modify the design or use the design for use other than that intended. 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.

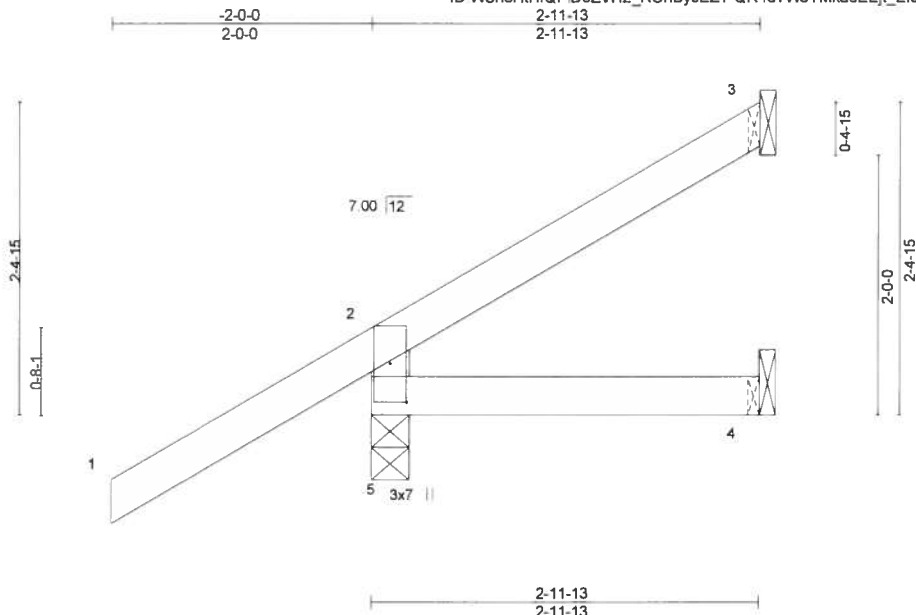


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Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790981
Blackwell_Rev1	J4	Jack-Open	3	1	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MITek Industries, Inc. Tue Aug 6 14 52 16 2019 Page 1
ID WSn6HtHfQPID9ZVH2_ROnBysEZT-QR4dTW8YMkaeEEt_EI9Z4oWKIN3fyp0Zn9YUryqXiD



Scale = 1:16.7

Plate Offsets (X,Y)-- [5:0-3-9,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.01	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						Weight: 14 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 2-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 5=290/0-3-8, 3=49/Mechanical, 4=12/Mechanical
Max Horz 5=93(LC 12)
Max Uplift 5=-82(LC 12), 3=-16(LC 9), 4=-10(LC 9)
Max Grav 5=290(LC 1), 3=50(LC 17), 4=46(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; 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) 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) 5, 3, 4.



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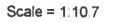
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Mayo Truss Company, Inc. Mayo, FL - 32066. 8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 17 2019 Page 1
ID WSn6HtHfQPID9ZVH2_ROnBysEZT-ude?gs9A72iVrOH3YxpO6HLhqik?OP39oRu50HyqXlC



- 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) 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) 3, 2, 4.

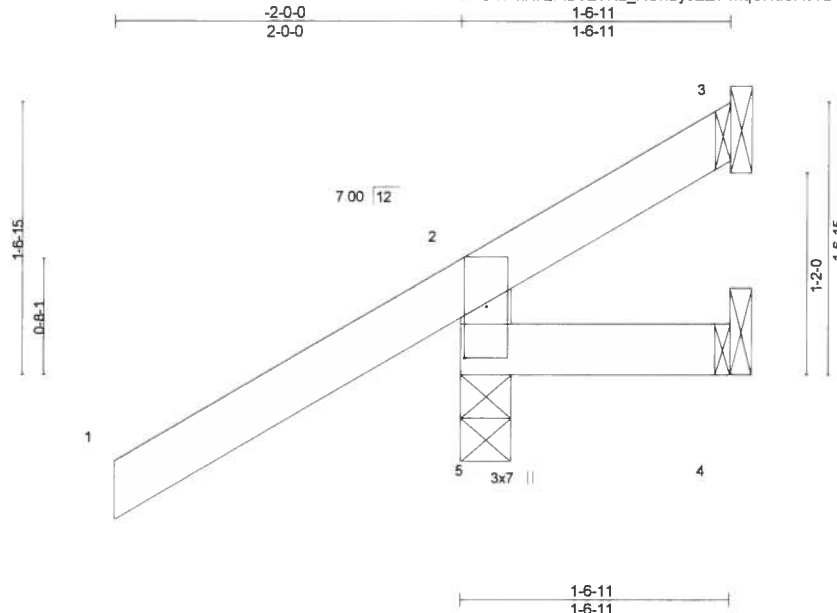


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Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790983
Blackwell_Rev1	J5	Jack-Open	3	1	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52 18 2019 Page 1
ID WSn6HtHfQPID9ZVH2_R0nBysEzt-MqCNuCAouLqMTYsG6fKdfVisq63M7slJ05eeZjyqXiB



Scale = 1:12.6

Plate Offsets (X,Y) - [5 0-3-9 0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	0.00	4-5	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						Weight: 9 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 1-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=283/0-3-8, 3=-22/Mechanical, 4=-20/Mechanical
Max Horz 5=74(LC 12)
Max Uplift 5=-98(LC 12), 3=-22(LC 1), 4=-23(LC 17)
Max Grav 5=283(LC 1), 3=15(LC 12), 4=15(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; 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) 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) 5, 3, 4.



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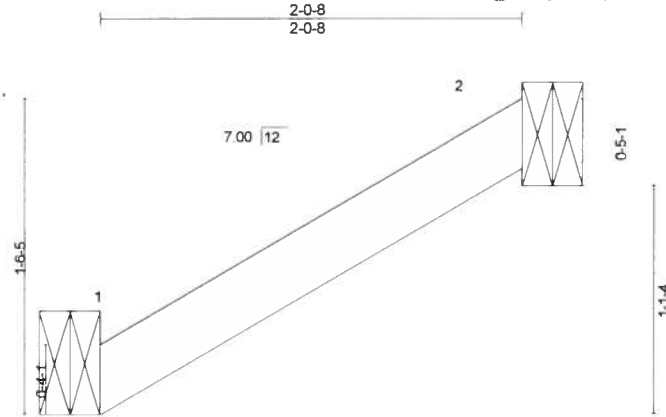
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Job	Truss	Truss Type	Qty	Ply	Blackwell Rev1	T17790984
Blackwell_Rev1	R1	Rafter	2	1	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066

8 220 s Nov 16 2018 MiTek Industries, Inc. Tue Aug 6 14 52:19 2019 Page 1

ID WSn6HtHfQPID9ZVH2_RONBysEZT-q0mm5YBQefyD5iRSgMssBiQ5dWQ5sJYSFINC5AyyXIA



Scale = 1:10.5

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	0.05	Vert(LL)	-0.00	1-2	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.00	Vert(CT)	-0.00	1-2	>999	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-MP						
Weight: 4 lb										FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2

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

REACTIONS. (lb/size) 1=52/Mechanical, 2=52/Mechanical
Max Horz 1=24(LC 12)
Max Uplift 1=-3(LC 12), 2=-18(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 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2019

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

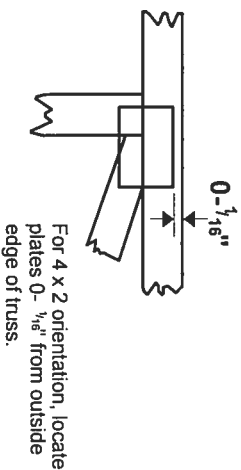
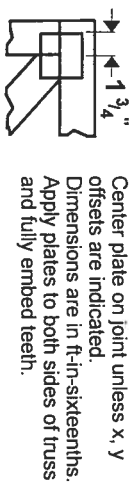
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building 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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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

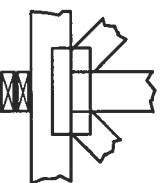
4 X 4

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

LATERAL BRACING LOCATION



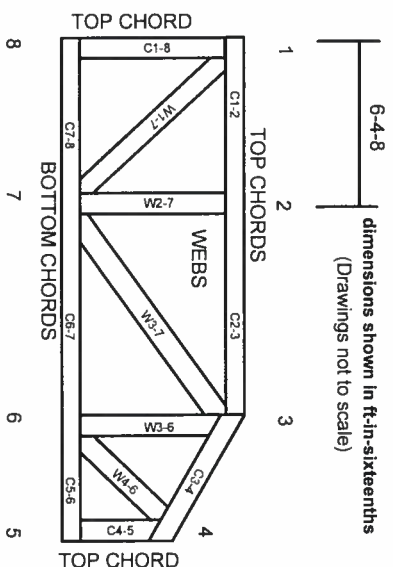
BEARING



Industry Standards:

ANSI/TPI 1: 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/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.

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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.