

Columbia County New Building Permit Application

For Office Use Only		Application # <u>44344</u>	Date Received <u>1/15</u>	By <u>[Signature]</u>	Permit # <u>39303</u>
Zoning Official <u>LW/CH</u>	Date <u>1-16-20</u>	Flood Zone <u>X</u>	Land Use <u>Ag</u>	Zoning <u>A-3</u>	
FEMA Map # _____	Elevation _____	MFE _____	River _____	Plans Examiner <u>TC</u>	Date <u>1-27-20</u>
Comments					
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☒ Well letter ☐ 911 Sheet ☐ Parent Parcel # _____ ☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter ☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☒ App Fee Paid ☒ Sub VF Form					

Septic Permit No. 20-0090 OR City Water ☐ Fax _____

Applicant (Who will sign/pickup the permit) Isaiah Cully Phone 386-867-0086

Address 818 W Duval Lake city FL 32055

Owners Name Jake Hopper Phone 904-814-3416

911 Address 661 NW Josephine St Lake city FL 32055

Contractors Name Isaiah Cully Phone 386-867-0086

Address 818 W Duval Lake city FL 32055

Contractor Email Isaiahcully4@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Nicholas Geisler 1758 NW Brown Rd, lake city FL 32055

Mortgage Lenders Name & Address First Federal Savings Bank

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

Property ID Number 32-2S-17-04821-001 **Estimated Construction Cost** 175,000

Subdivision Name _____ **Lot** _____ **Block** _____ **Unit** _____ **Phase** _____

Driving Directions from a Major Road 441 N To Josephine St, Project on Josephine St on Rght

Construction of Single Family Dwelling _____ **Commercial** OR X **Residential**

Proposed Use/Occupancy Home **Number of Existing Dwellings on Property** _____

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 334 **Side** Lh 100 **Side** - **Rear** -

Number of Stories 1 **Heated Floor Area** 1,945 **Total Floor Area** 2,565 **Acreage** 28.5

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

Ja Sent email 1.30.20

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.

Jake Hopper

Print Owners Name

Owners Signature

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

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

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

Contractor's Signature

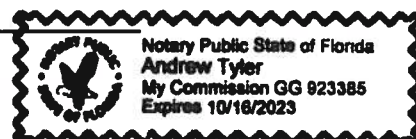
Contractor's License Number 1259655
Columbia County
Competency Card Number 1179

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 7 day of January 2020.

Personally known ☒ or Produced Identification ☐

SEAL:

State of Florida Notary Signature (For the Contractor)



SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 44349 JOB NAME Hopper, TAKE

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

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

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

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

ELECTRICAL ☒	Print Name <u>Dennis Conklin</u> Signature <u>Dennis Conklin</u> Company Name: <u>D+S Electric</u> License #: <u>13003800</u> Phone #: <u>386 397-5731</u>	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/A/C ☒	Print Name <u>Clint Wilson</u> Signature <u>Clint Wilson</u> Company Name: <u>Wilson Heat & Air</u> License #: <u>CACG 57886</u> Phone #: <u>386 496-9000</u>	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/GAS ☒	Print Name <u>Code Bens</u> Signature <u>Code Bens</u> Company Name: <u>BENS Plumbing</u> License #: <u>CPL1427145</u> Phone #: <u>386 623-0509</u>	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☒	Print Name <u>Isiah Cusly</u> Signature <u>Isiah Cusly</u> Company Name: <u>IBC</u> License #: <u>IBC 125965</u> Phone #: <u>386 867 0086</u>	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/SPRINKLER ☐	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

Prepared by & Return to
Debbie G. Moore
Bankers Title of the Nature Coast, Inc.
471 SW SR 247, Suite 111
Lake City, Florida 32025

File Number: 19-134

Inst: 201912029879 Date: 12/20/2019 Time: 4:48PM
Page 1 of 2 B: 1401 P: 2070. P.DeWitt Cason, Clerk of Court
Columbia County, By: BD
Deputy ClerkDoc Stamp-Deed: 560.00

General Warranty Deed

Made this December 20, 2019 A.D.

By LAKE CITY DEVELOPMENT, LLC, a Florida limited liability company (State of Florida Document Number L05000095992), whose mailing address is: 409 NE Peaceful Drive, Lake City, Florida 32055, hereinafter called the grantor(s),

to JACOB R. HOPPER and JAMIE L. HOPPER, husband and wife, whose mailing address is: 6895 Martin Road, Milton, Florida 32570, hereinafter called the grantee(s):

(Whenever used herein the term "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 corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$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, viz:

TOWNSHIP 2 SOUTH, RANGE 17 EAST

SECTION 32: PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND PART OF THE NORTHWEST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 2 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR POINT OF BEGINNING COMMENCE AT THE SOUTHWEST CORNER OF SAID NORTHWEST 1/4, THENCE RUN NORTH 0°42'16" WEST ALONG THE WEST LINE OF SAID SECTION 32, A DISTANCE OF 284.96 FEET TO A POINT ON A WETLAND BUFFER; THENCE RUN ALONG AND AROUND SAID WETLAND BUFFER THE FOLLOWING COURSES: SOUTH 68°53'50" EAST, 102.69 FEET; SOUTH 52°09'47" EAST, 36.74 FEET; SOUTH 20°40'21" WEST, 118.74 FEET; SOUTH 5°11'34" WEST, 71.50 FEET; SOUTH 14°20'27" EAST, 78.11 FEET; SOUTH 60°40'31" EAST, 118.35 FEET; SOUTH 13°21'23" EAST, 160.51 FEET; SOUTH 61°10'56" EAST, 81.81 FEET; NORTH 70°17'20" EAST, 101.56 FEET; NORTH 1°39'19" EAST, 346.78 FEET; NORTH 12°46'07" WEST, 232.64 FEET; NORTH 84°10'00" EAST, 279.00 FEET; SOUTH 72°57'36" EAST, 178.91 FEET; SOUTH 13°27'24" EAST, 356.60 FEET; SOUTH 13°27'24" EAST, 120.68 FEET; SOUTH 54°00'12" EAST, 199.96 FEET; SOUTH 46°09'33" EAST, 296.06 FEET TO THE NORTH RIGHT-OF-WAY LINE OF NW JOSEPHINE STREET AND THE TERMINUS OF SAID COURSES; THENCE RUN ALONG SAID NORTH RIGHT-OF-WAY LINE, THE FOLLOWING COURSES: SOUTH 77°41'27" WEST, 92.36 FEET; SOUTH 74°01'19" WEST, 118.76 FEET; SOUTH 66°35'49" WEST, 140.34 FEET; SOUTH 58°19'27" WEST, 93.73 FEET; SOUTH 57°00'48" WEST, 142.69 FEET; SOUTH 58°10'18" WEST, 103.89 FEET; SOUTH 58°10'18" WEST, 297.01 FEET; SOUTH 60°35'11" WEST, 212.04 FEET; SOUTH 62°44'51" WEST, 248.88 FEET TO THE TERMINUS OF SAID COURSES AND THE WEST LINE OF SAID SECTION 32; THENCE RUN NORTH 0°42'16" WEST ALONG SAID WEST LINE, A DISTANCE OF 1153.82 FEET TO THE POINT OF BEGINNING.

SUBJECT TO A 30.00 FOOT EASEMENT FOR INGRESS AND EGRESS OVER AND ACROSS THE WEST 30.00 FEET THEREOF.

Parcel ID Number: 04821-001

Together with all the 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 December 31, 2019.

Prepared by & Return to
Debbie G. Moore
Bankers Title of the Nature Coast, Inc.
471 SW SR 247, Suite 111
Lake City, Florida 32025

File Number: 19-134

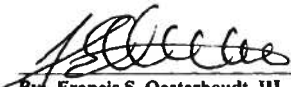
In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

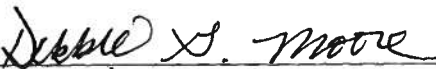
LAKE CITY DEVELOPMENT, LLC, a Florida limited liability company



Witness Printed Name Robert D. Burns



By: **Francis S. Oosterhoudt, III** (Seal)
Address: 409 NE Peaceful Drive, Lake City, Florida 32055



Witness Printed Name Debbie G. Moore

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 20th day of December, 2019, by Francis S. Oosterhoudt, III, as Manager of LAKE CITY DEVELOPMENT, LLC, a Florida limited liability company, on behalf of the company, who is/are personally known to me or who has produced FL DRIVER'S LICENSE as identification.





Notary Public **Debbie G. Moore**
My Commission Expires: 3-20-21

1/13/2020

To: Columbia County Building Department

A&B Well Drilling, Inc.

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

Description of Well to be installed for Customer _____
OIC Construction

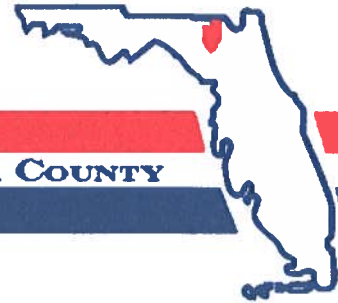
Located @ Address: _____ 681 NW Josephine St _____

1 HP 20 GPM submersible pump, 1 1/4" drop pipe, 85 gallon captive tank, and backflow prevention.
With SRWMD permit.

Bruce Park

Sincerely,
Bruce N. Park
President

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



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued: **1/6/2020 4:36:17 PM**
Address: **681 NW JOSEPHINE St**
City: **LAKE CITY**
State: **FL**
Zip Code **32055**

Parcel ID **04821-001**

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**

This Document Prepared By:

Name: Jocelyn Hill

Title: Closer

First Federal Bank

4705 US Hwy 90 West

Lake City, FL 32055

Inst: 201912029881 Date: 12/20/2019 Time: 4:48PM

Page 1 of 3 B: 1401 P: 2097, 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: **Jacob R Hopper, Jamie L Hopper
6895 Martin Rd, Milton, FL 32570**
Interest in property: **[X] Fee Simple**
Name and address of fee simple title holder (if other than Owner): **[]**
4. Contractor (name and address): **IC Construction, LLC
585 SW Bishop Avenue, Lake City, FL 32024**
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.



* 1 1 1 0 0 2 2 0 6 3 *

Mortgage Cadence Document Center • 9865 01/17



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

[Signature] (Seal) Jamie L Hopper (Seal)
Borrower - Jacob R Hopper Borrower - Jamie L Hopper

State of Florida

County of Columbia

The foregoing instrument was acknowledged before me this 20th day of December,
2019,
by Jacob R. Hopper and Jamie L. Hopper

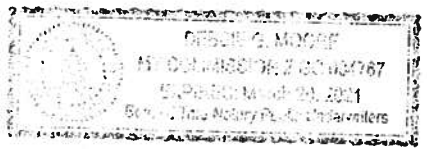
who is personally known to me or who has produced FL Driver's License as identification.

Debbie G. Moore
(Signature of person taking acknowledgment)

Debbie G. Moore
(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.

[Signature] 12-20-19 Jamie L. Hopper 12-20-19
Borrower - Jacob R Hopper Date Borrower - Jamie L Hopper Date

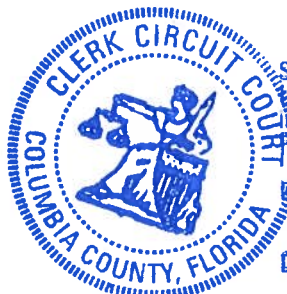


Exhibit "A"

TOWNSHIP 2 SOUTH, RANGE 17 EAST

SECTION 32: PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND PART OF THE NORTHWEST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 2 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR POINT OF BEGINNING COMMENCE AT THE SOUTHWEST CORNER OF SAID NORTHWEST 1/4, THENCE RUN NORTH 0°42'16" WEST ALONG THE WEST LINE OF SAID SECTION 32, A DISTANCE OF 284.96 FEET TO A POINT ON A WETLAND BUFFER; THENCE RUN ALONG AND AROUND SAID WETLAND BUFFER THE FOLLOWING COURSES: SOUTH 68°53'50" EAST, 102.69 FEET; SOUTH 52°09'47" EAST, 36.74 FEET; SOUTH 20°40'21" WEST, 118.74 FEET; SOUTH 5°11'34" WEST, 71.50 FEET; SOUTH 14°20'27" EAST, 78.11 FEET; SOUTH 60°40'31" EAST, 118.35 FEET; SOUTH 13°21'23" EAST, 160.51 FEET; SOUTH 61°10'56" EAST, 81.81 FEET; NORTH 70°17'20" EAST, 101.56 FEET; NORTH 1°39'19" EAST, 346.78 FEET; NORTH 12°46'07" WEST, 232.64 FEET; NORTH 84°10'00" EAST, 279.00 FEET; SOUTH 72°57'36" EAST, 178.91 FEET; SOUTH 13°27'24" EAST, 356.60 FEET; SOUTH 13°27'24" EAST, 120.68 FEET; SOUTH 54°00'12" EAST, 199.96 FEET; SOUTH 46°09'33" EAST, 296.06 FEET TO THE NORTH RIGHT-OF-WAY LINE OF NW JOSEPHINE STREET AND THE TERMINUS OF SAID COURSES; THENCE RUN ALONG SAID NORTH RIGHT-OF-WAY LINE, THE FOLLOWING COURSES: SOUTH 77°41'27" WEST, 92.36 FEET; SOUTH 74°01'19" WEST, 118.76 FEET; SOUTH 66°35'49" WEST, 140.34 FEET; SOUTH 58°19'27" WEST, 93.73 FEET; SOUTH 57°00'48" WEST, 142.69 FEET; SOUTH 58°10'18" WEST, 103.89 FEET; SOUTH 58°10'18" WEST, 297.01 FEET; SOUTH 60°35'11" WEST, 212.04 FEET; SOUTH 62°44'51" WEST, 248.88 FEET TO THE TERMINUS OF SAID COURSES AND THE WEST LINE OF SAID SECTION 32; THENCE RUN NORTH 0°42'16" WEST ALONG SAID WEST LINE, A DISTANCE OF 1153.82 FEET TO THE POINT OF BEGINNING.

SUBJECT TO A 30.00 FOOT EASEMENT FOR INGRESS AND EGRESS OVER AND ACROSS THE WEST 30.00 FEET THEREOF.



STATE OF FLORIDA, COUNTY OF COLUMBIA
HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
By: DeWITT DASON, CLERK OF COURTS

Bonnie Dason
Deputy Clerk

Date: Dec 20, 2019

Roads

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

Parcels

2018Aerials

SectionTownshipAndRange

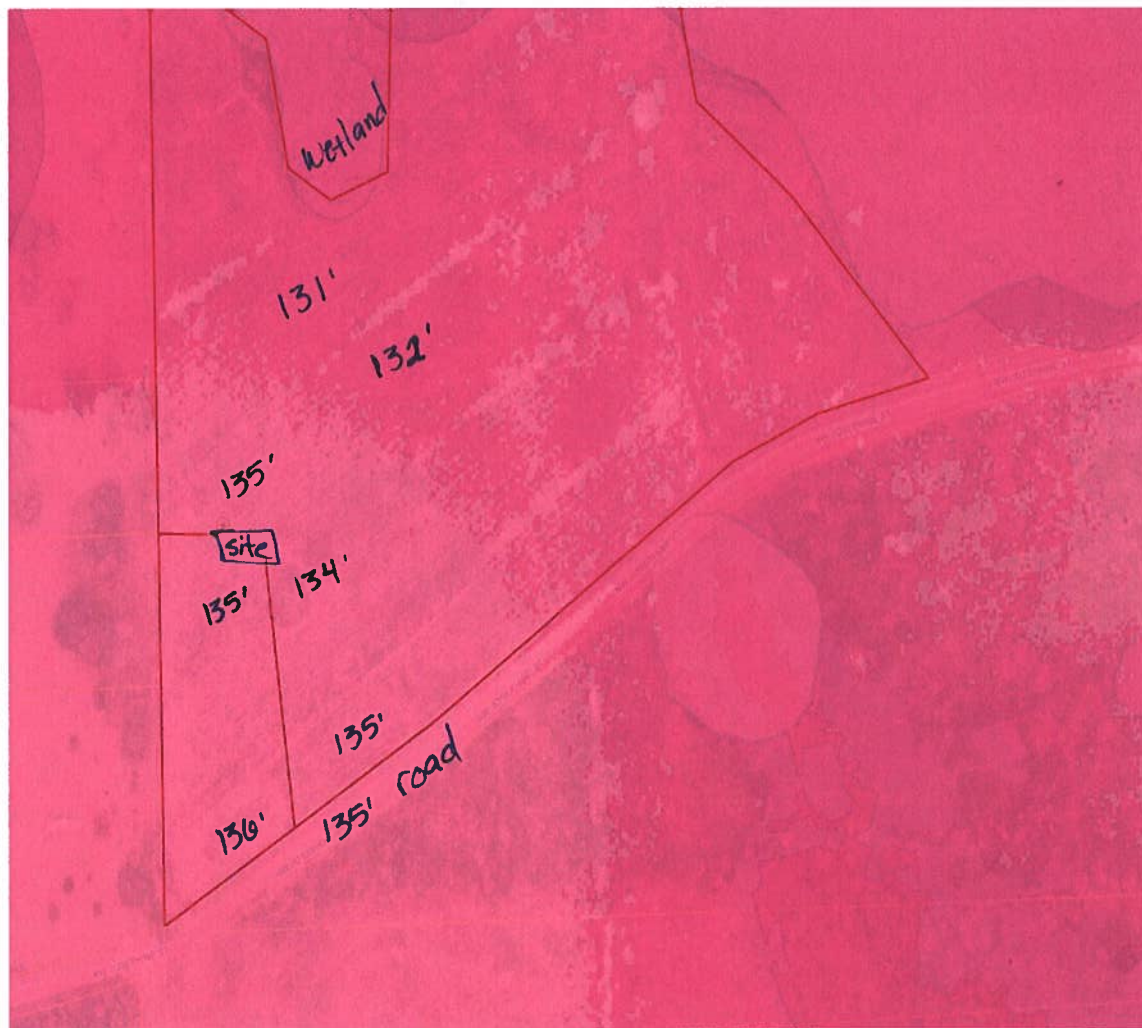
2018 Flood Zones

- 0.2 PCT ANNUAL CHANCE
- A
- AE
- AH

LidarElevations



Printed: Thu Jan 16 2020 11:40:18 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 32-2S-17-04821-001

Owner: LAKE CITY DEVELOPMENT LLC

Subdivision:

Lot:

Acres: 23.80017

Deed Acres: 28.5 Ac

District: District 1 Ronald Williams

Future Land Uses: Agriculture - 3

Flood Zones: A,

Official Zoning Atlas: A-3



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

App# 44344

PERMIT NO. 20-0090
DATE PAID: 2/7/20
FEE PAID: 310.00
RECEIPT #: 14104554

APPLICATION FOR:

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

APPLICANT: Lake City Development LLCAGENT: ROCKY FORD, A & B CONSTRUCTIONTELEPHONE: 386-497-2311MAILING ADDRESS: 546 SW Dortch Street, FT. WHITE, FL, 32038

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: NA BLOCK: NA SUB: NA PLATTED: _____PROPERTY ID #: 32-2S-17-04821-00 ZONING: _____ I/M OR EQUIVALENT: ☐ Y / ☐ NPROPERTY SIZE: 28.5 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ≤ 2000 GPD ☐ > 2000 GPDIS SEWER AVAILABLE AS PER 381.0065, FS? ☒ Y / ☐ N DISTANCE TO SEWER: NA FTPROPERTY ADDRESS: 6246 US Hwy 441, Lake City, FL. 32055

DIRECTIONS TO PROPERTY: Head W on NE Franklin St. toward NE
Calhoun Ave, TR at 3rd cross street onto US-441 N,
TL onto NW Josephine St, property on the right.

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	SF Residential	4	1945	
2				
3				

1	SF Residential	4	1945	
2				
3				

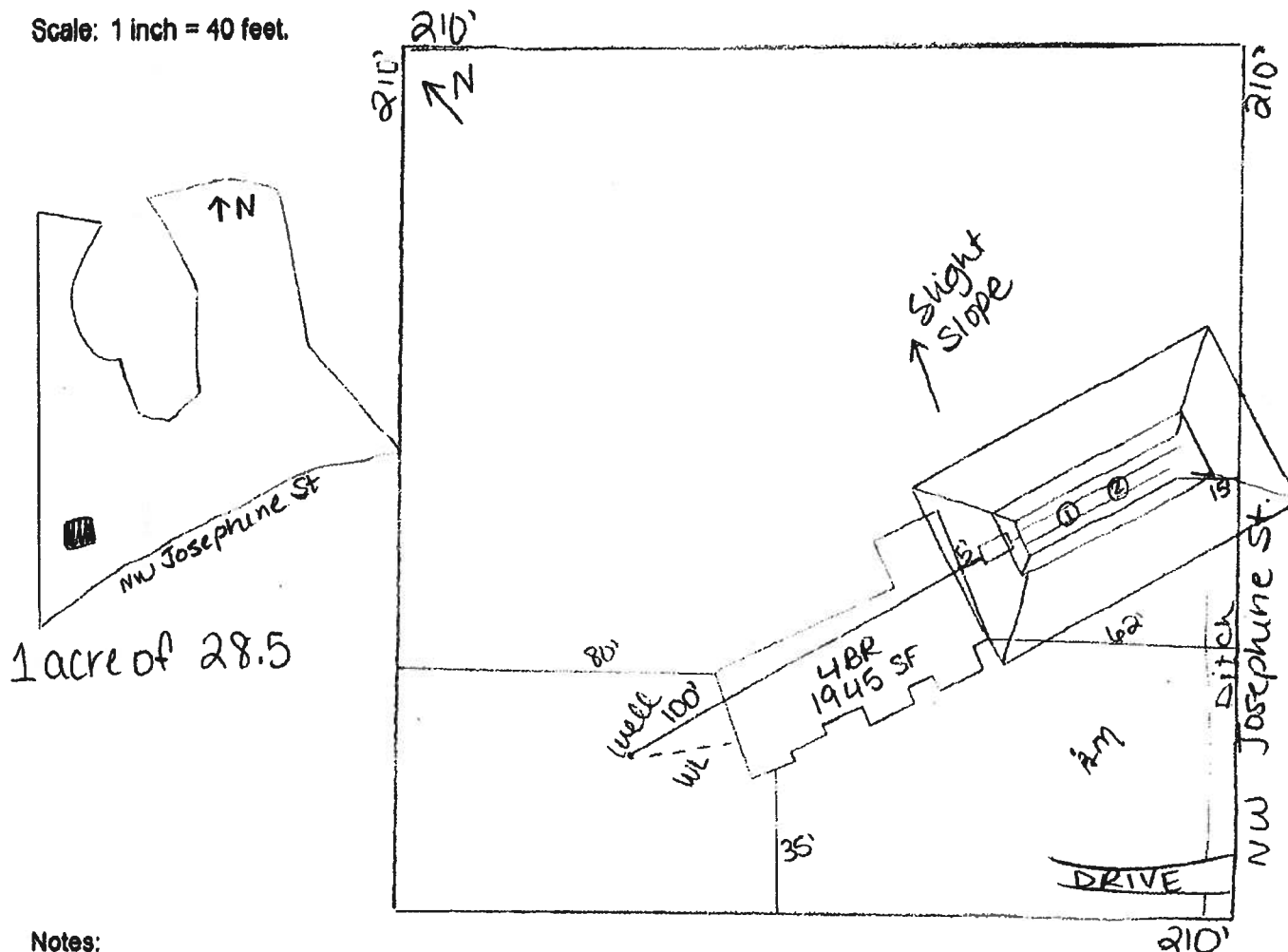
☐ Floor/Equipment Drains ☐ Other (Specify) _____SIGNATURE: William D. Bishop II DATE: 2-5-20

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

Permit Application Number 20-0090Lake City Development LLC (Hopper)

PART II - SITEPLAN

Scale: 1 inch = 40 feet.



Notes:

1 acre of 28.5Site Plan submitted by: William D. Bishop IIPlan Approved X

Not Approved _____

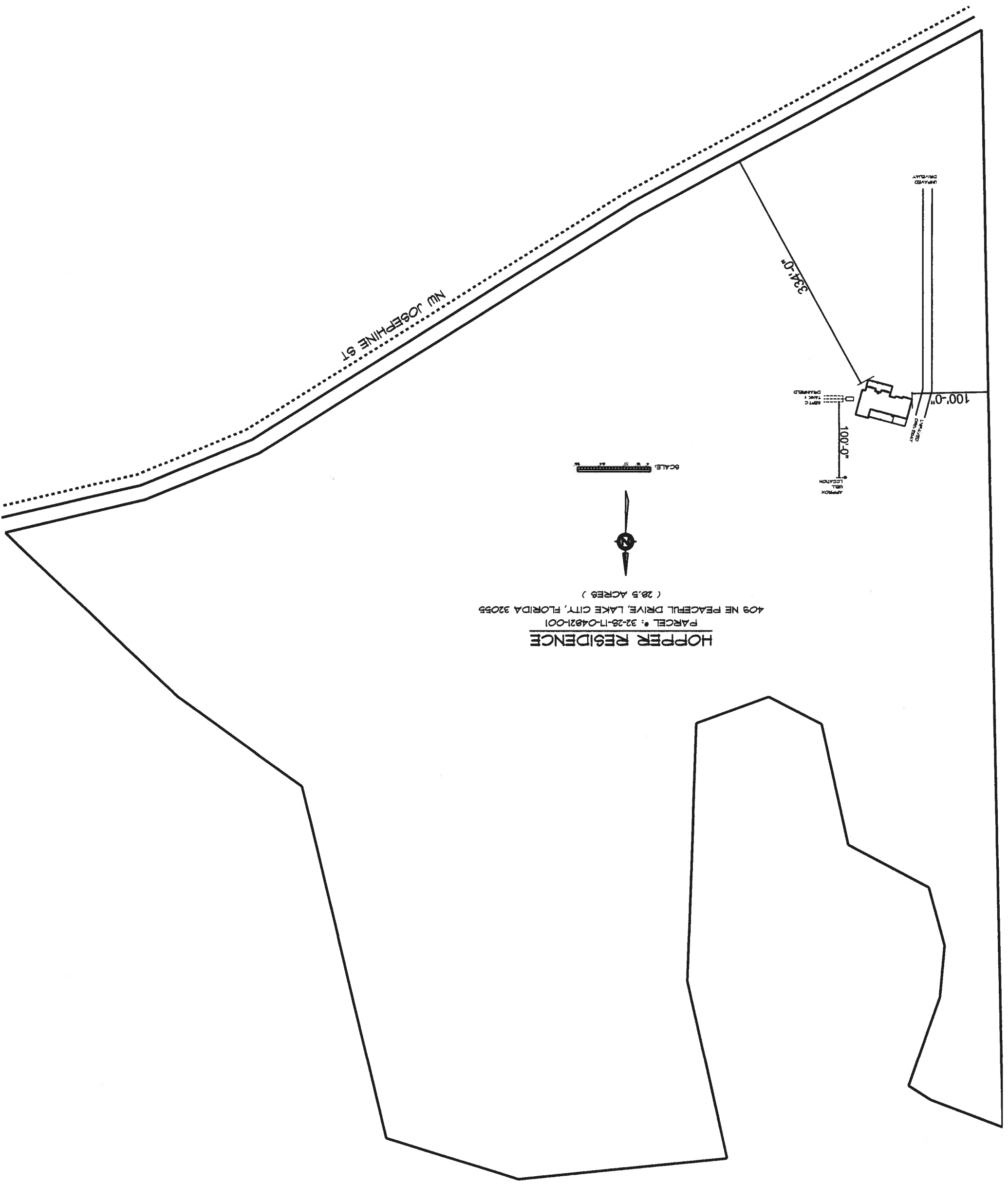
By _____

MASTER CONTRACTOR

Date 2-5-20

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



HOPPER RESIDENCE

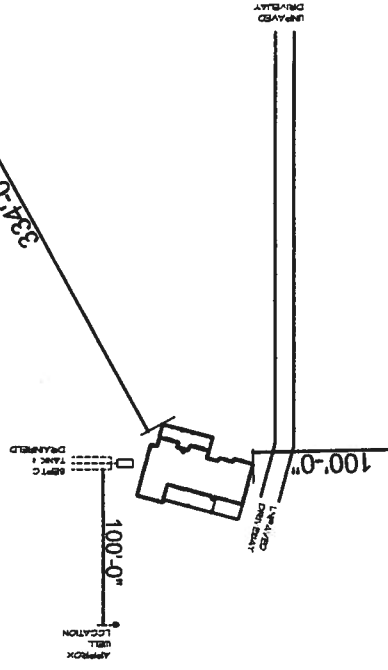
PARCEL #: 32-28-17-04821-001

409 NE PEACEFUL DRIVE, LAKE CITY, FLORIDA 32055

(28.5 ACRES)



SCALE: 1" = 20'



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Hopper Residence
 Street: NW Josephine Street
 City, State, Zip: Lake City, FL, 32055
 Owner:
 Design Location: FL, Gainesville

Builder Name: IC Construction LLC
 Permit Office: Columbia County
 Permit Number:
 Jurisdiction:
 County: Columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	4
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	1945
Conditioned floor area below grade (ft²)	0
7. Windows (379.0 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.33 379.00 ft²
SHGC:	SHGC=0.22
b. U-Factor:	N/A ft²
SHGC:	
c. U-Factor:	N/A ft²
SHGC:	
d. U-Factor:	N/A ft²
SHGC:	
Area Weighted Average Overhang Depth:	7.745 ft.
Area Weighted Average SHGC:	0.220
8. Floor Types (1945.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 1945.00 ft²
b. N/A	R= ft²
c. N/A	R= ft²

9. Wall Types (2052.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 2052.00 ft²
b. N/A	R= ft²
c. N/A	R= ft²
d. N/A	R= ft²
10. Ceiling Types (1945.0 sqft.)	Insulation Area
a. Under Attic (Unvented)	R=30.0 1945.00 ft²
b. N/A	R= ft²
c. N/A	R= ft²
11. Ducts	R ft²
a. Sup: Attic, Ret: Attic, AH: Main	6 389

12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	36.0 SEER:16.00

13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	36.0 HSPF:8.50

14. Hot water systems	Cap: 40 gallons
a. Electric	EF: 0.920
b. Conservation features	None

15. Credits	CF, Pstat
-------------	-----------

Glass/Floor Area: 0.195

Total Proposed Modified Loads: 59.74

Total Baseline Loads: 63.86

PASS

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

PREPARED BY: [Signature]
 DATE: 10-17-19

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

OWNER/AGENT: _____
 DATE: _____

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



BUILDING OFFICIAL: _____
 DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Hopper Residence	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2168	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	IC Construction LLC	Rotate Angle:	0	Street:	NW Josephine Street
Permit Office:	Columbia County	Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32055
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	1945	17505

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1945	17505	Yes	6	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
✓	1	Slab-On-Grade Edge Insulatio	Main	225 ft	0	1945 ft²	----	0.33	0.33	0.34

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
✓	1	Hip	Composition shingles	2175 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	26.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
✓	1	Full attic	Vented	300	1945 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	Main	30	Blown	1945 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	17	4	9		156.0 ft²	0.625	0.23	0.75	0
2	N	Exterior	Frame - Wood	Main	13	32	2	9		289.5 ft²	0.625	0.23	0.75	0
3	W	Exterior	Frame - Wood	Main	13	12		9		108.0 ft²	0.625	0.23	0.75	0
4	N	Exterior	Frame - Wood	Main	13	17	2	9		154.5 ft²	0.625	0.23	0.75	0
5	E	Exterior	Frame - Wood	Main	13	34		9		306.0 ft²	0.625	0.23	0.75	0
6	S	Exterior	Frame - Wood	Main	13	4	4	9		39.0 ft²	0.625	0.23	0.75	0
7	E	Exterior	Frame - Wood	Main	13	6		9		54.0 ft²	0.625	0.23	0.75	0
8	S	Exterior	Frame - Wood	Main	13	25	8	9		231.0 ft²	0.625	0.23	0.75	0
9	E	Exterior	Frame - Wood	Main	13	3	4	9		30.0 ft²	0.625	0.23	0.75	0
10	S	Exterior	Frame - Wood	Main	13	7	2	9		64.5 ft²	0.625	0.23	0.75	0
11	W	Exterior	Frame - Wood	Main	13	3	4	9		30.0 ft²	0.625	0.23	0.75	0
12	W	Exterior	Frame - Wood	Main	13	5		9		45.0 ft²	0.625	0.23	0.75	0
13	S	Exterior	Frame - Wood	Main	13	7	6	9		67.5 ft²	0.625	0.23	0.75	0
14	E	Exterior	Frame - Wood	Main	13	2		9		18.0 ft²	0.625	0.23	0.75	0
15	S	Exterior	Frame - Wood	Main	13	9	4	9		84.0 ft²	0.625	0.23	0.75	0
16	E	Exterior	Frame - Wood	Main	13	2		9		18.0 ft²	0.625	0.23	0.75	0
17	S	Exterior	Frame - Wood	Main	13	12	8	9		114.0 ft²	0.625	0.23	0.75	0
18	W	Exterior	Frame - Wood	Main	13	27		9		243.0 ft²	0.625	0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	N	Wood	Main	None	.46	3		6	8	20 ft²
2	S	Insulated	Main	None	.46	3		8		24 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	Vinyl	Low-E Double	Yes	0.33	0.22	N	40.0 ft²	1 ft 6 in	1 ft 4 in	None	None
2	N	2	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft²	11 ft 6 in	1 ft 4 in	None	None
3	N	2	Vinyl	Low-E Double	Yes	0.33	0.22	N	128.0 ft²	11 ft 6 in	1 ft 4 in	None	None
4	N	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
5	E	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	None	None
6	E	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	3.0 ft²	1 ft 6 in	1 ft 4 in	None	None
7	S	8	Vinyl	Low-E Double	Yes	0.33	0.22	N	84.0 ft²	9 ft 10 in	1 ft 4 in	None	None
8	S	10	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.0 ft²	13 ft 2 in	1 ft 4 in	None	None
9	S	15	Vinyl	Low-E Double	Yes	0.33	0.22	N	10.0 ft²	1 ft 6 in	1 ft 4 in	None	None
10	S	17	Vinyl	Low-E Double	Yes	0.33	0.22	N	25.0 ft²	1 ft 6 in	1 ft 4 in	None	None
11	W	18	Vinyl	Low-E Double	Yes	0.33	0.22	N	3.0 ft²	1 ft 6 in	1 ft 4 in	None	None
12	W	18	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft²	1 ft 6 in	1 ft 4 in	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1458.8	80.08	150.61	.1128	5

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump/	None	HSPF:8.5	36 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	None	SEER: 16	36 kBtu/hr	1080 cfm	0.85	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Main	0.92	40 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

✓	#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6	389 ft²	Attic	97.25 ft	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule: HERS 2006 Reference		Hours											
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	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
MASS													
Mass Type		Area		Thickness		Furniture Fraction		Space					
Default(8 lbs/sq.ft.)		0 ft²		0 ft		0.3		Main					

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* = 94****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	<u>Main</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system:	Capacity <u>36.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>1945</u>	a) Split system	SEER <u> </u>
7. Windows, type and area		b) Single package	SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.330</u>	c) Ground/water source	SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.220</u>	d) Room unit/PTAC	EER <u> </u>
c) Area	7c. <u>379.0</u>	e) Other	<u>16.0</u>
8. Skylights		14. Heating system:	Capacity <u>36.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump	HSPF <u> </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>8.50</u>
10. Wall type and insulation:		15. Water heating system	
A. Exterior:		a) Electric resistance	EF <u>0.92</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> </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>30.0</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>Yes</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: _____ Date: _____

Address of New Home: NW Josephine Street City/FL Zip: Lake City, FL 32055

Residential System Sizing Calculation

Summary

NW Josephine Street
Lake City, FL 32055

Project Title:
Hopper Residence

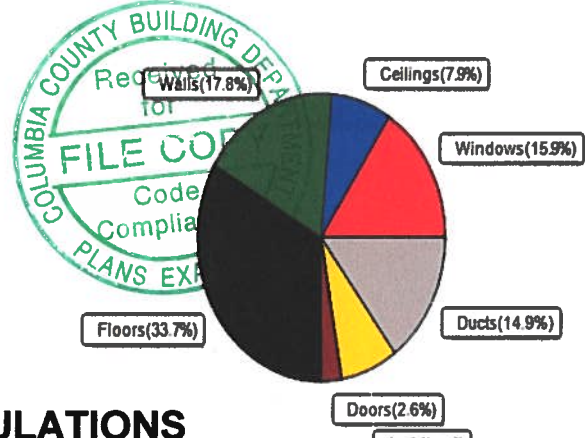
10/17/2019

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	31519 Btuh	Total cooling load calculation	23583 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	114.2 36000	Sensible (SHR = 0.85)	154.0 30600
Heat Pump + Auxiliary(0.0kW)	114.2 36000	Latent	145.6 5400
		Total (Electric Heat Pump)	152.7 36000

WINTER CALCULATIONS

Winter Heating Load (for 1945 sqft)

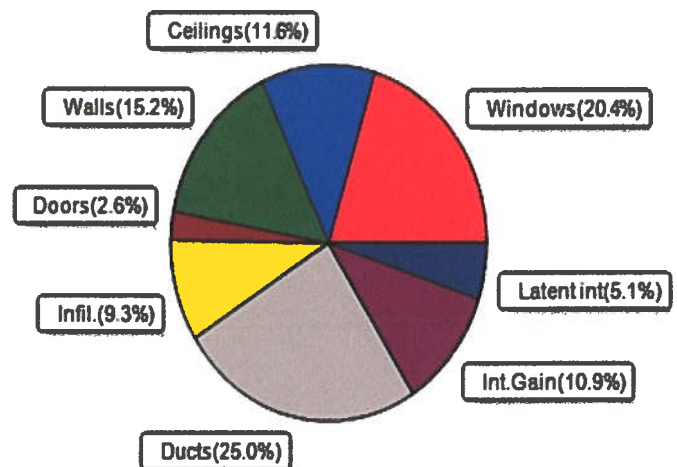
Load component		Load	
Window total	379 sqft	5003	Btuh
Wall total	1629 sqft	5618	Btuh
Door total	44 sqft	810	Btuh
Ceiling total	1945 sqft	2478	Btuh
Floor total	1945 sqft	10620	Btuh
Infiltration	53 cfm	2305	Btuh
Duct loss		4686	Btuh
Subtotal		31519	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		31519	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1945 sqft)

Load component		Load	
Window total	379 sqft	4810	Btuh
Wall total	1629 sqft	3581	Btuh
Door total	44 sqft	607	Btuh
Ceiling total	1945 sqft	2725	Btuh
Floor total		0	Btuh
Infiltration	39 cfm	821	Btuh
Internal gain		2580	Btuh
Duct gain		4748	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		19874	Btuh
Latent gain(ducts)		1147	Btuh
Latent gain(infiltration)		1363	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		3710	Btuh
TOTAL HEAT GAIN		23583	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

[Signature]
10-17-19

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

NW Josephine Street
Lake City, FL 32055

Project Title:
Hopper Residence
Building Type: User

10/17/2019

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 0.22	Vinyl	0.33	N	40.0		13.2	528 Btuh
2	2, NFRC 0.22	Vinyl	0.33	N	20.0		13.2	264 Btuh
3	2, NFRC 0.22	Vinyl	0.33	N	128.0		13.2	1690 Btuh
4	2, NFRC 0.22	Vinyl	0.33	N	15.0		13.2	198 Btuh
5	2, NFRC 0.22	Vinyl	0.33	E	15.0		13.2	198 Btuh
6	2, NFRC 0.22	Vinyl	0.33	E	3.0		13.2	40 Btuh
7	2, NFRC 0.22	Vinyl	0.33	S	84.0		13.2	1109 Btuh
8	2, NFRC 0.22	Vinyl	0.33	S	16.0		13.2	211 Btuh
9	2, NFRC 0.22	Vinyl	0.33	S	10.0		13.2	132 Btuh
10	2, NFRC 0.22	Vinyl	0.33	S	25.0		13.2	330 Btuh
11	2, NFRC 0.22	Vinyl	0.33	W	3.0		13.2	40 Btuh
12	2, NFRC 0.22	Vinyl	0.33	W	20.0		13.2	264 Btuh
Window Total					379.0(sqft)			5003 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.086)	13.0/0.6	116		3.45	400 Btuh
2	Frame - Wood	- Ext	(0.086)	13.0/0.6	122		3.45	419 Btuh
3	Frame - Wood	- Ext	(0.086)	13.0/0.6	108		3.45	372 Btuh
4	Frame - Wood	- Ext	(0.086)	13.0/0.6	140		3.45	481 Btuh
5	Frame - Wood	- Ext	(0.086)	13.0/0.6	288		3.45	993 Btuh
6	Frame - Wood	- Ext	(0.086)	13.0/0.6	39		3.45	134 Btuh
7	Frame - Wood	- Ext	(0.086)	13.0/0.6	54		3.45	186 Btuh
8	Frame - Wood	- Ext	(0.086)	13.0/0.6	147		3.45	507 Btuh
9	Frame - Wood	- Ext	(0.086)	13.0/0.6	30		3.45	103 Btuh
10	Frame - Wood	- Ext	(0.086)	13.0/0.6	25		3.45	84 Btuh
11	Frame - Wood	- Ext	(0.086)	13.0/0.6	30		3.45	103 Btuh
12	Frame - Wood	- Ext	(0.086)	13.0/0.6	45		3.45	155 Btuh
13	Frame - Wood	- Ext	(0.086)	13.0/0.6	68		3.45	233 Btuh
14	Frame - Wood	- Ext	(0.086)	13.0/0.6	18		3.45	62 Btuh
15	Frame - Wood	- Ext	(0.086)	13.0/0.6	74		3.45	255 Btuh
16	Frame - Wood	- Ext	(0.086)	13.0/0.6	18		3.45	62 Btuh
17	Frame - Wood	- Ext	(0.086)	13.0/0.6	89		3.45	307 Btuh
18	Frame - Wood	- Ext	(0.086)	13.0/0.6	220		3.45	759 Btuh
Wall Total					1629(sqft)			5618 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Wood - Exterior,	n	(0.460)		20		18.4	368 Btuh
2	Insulated - Exterior,	n	(0.460)		24		18.4	442 Btuh
Door Total					44(sqft)			810Btuh
Ceilings	Type/Color/Surface	Ueff.	R-Value		Area	X	HTM=	Load
1	Vented Attic/L/Shing	(0.032)	30.0/0.0		1945		1.3	2478 Btuh
Ceiling Total					1945(sqft)			2478Btuh
Floors	Type	Ueff.	R-Value		Size	X	HTM=	Load
1	Slab On Grade	(1.180)	0.0		225.0	ft(perim.)	47.2	10620 Btuh
Floor Total					1945 sqft			10620 Btuh

EnergyGauge® / USRCZB 10-1

Manual J Winter Calculations

Residential Load - Component Details (continued)

NW Josephine Street
Lake City, FL 32055

Project Title:
Hopper Residence
Building Type: User

10/17/2019

	Envelope Subtotal:					24528 Btuh
Infiltration	Type Natural	Wholehouse ACH 0.18	Volume(cuft) 17505	Wall Ratio 1.00	CFM= 52.6	2305 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.175)					4686 Btuh
All Zones	Sensible Subtotal All Zones					31519 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	31519 Btuh 0 Btuh 31519 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	36000 Btuh
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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

Project Title:
Hopper Residence

NW Josephine Street
Lake City, FL 32055

10/17/2019

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	0.22, 0.33	No	No	N		1.5ft	1.3ft	40.0	0.0	40.0	11	11	436	Btuh
2	2 NFRC	0.22, 0.33	No	No	N		11.5f	1.3ft	20.0	0.0	20.0	11	11	218	Btuh
3	2 NFRC	0.22, 0.33	No	No	N		11.5f	1.3ft	128.0	0.0	128.0	11	11	1395	Btuh
4	2 NFRC	0.22, 0.33	No	No	N		1.5ft	1.3ft	15.0	0.0	15.0	11	11	163	Btuh
5	2 NFRC	0.22, 0.33	No	No	E		1.5ft	1.3ft	15.0	0.0	15.0	11	27	412	Btuh
6	2 NFRC	0.22, 0.33	No	No	E		1.5ft	1.3ft	3.0	0.0	3.0	11	27	82	Btuh
7	2 NFRC	0.22, 0.33	No	No	S		9.8ft	1.3ft	84.0	84.0	0.0	11	13	915	Btuh
8	2 NFRC	0.22, 0.33	No	No	S		13.2f	1.3ft	16.0	16.0	0.0	11	13	174	Btuh
9	2 NFRC	0.22, 0.33	No	No	S		1.5ft	1.3ft	10.0	10.0	0.0	11	13	109	Btuh
10	2 NFRC	0.22, 0.33	No	No	S		1.5ft	1.3ft	25.0	25.0	0.0	11	13	272	Btuh
11	2 NFRC	0.22, 0.33	No	No	W		1.5ft	1.3ft	3.0	0.0	3.0	11	27	82	Btuh
12	2 NFRC	0.22, 0.33	No	No	W		1.5ft	1.3ft	20.0	0.0	20.0	11	27	550	Btuh
	Window Total								379 (sqft)					4810 Btuh	
Walls	Type						U-Value	R-Value	Area(sqft)			HTM		Load	
								Cav/Sheath							
1	Frame - Wood - Ext						0.09	13.0/0.6	116.0			2.2		255 Btuh	
2	Frame - Wood - Ext						0.09	13.0/0.6	121.5			2.2		267 Btuh	
3	Frame - Wood - Ext						0.09	13.0/0.6	108.0			2.2		237 Btuh	
4	Frame - Wood - Ext						0.09	13.0/0.6	139.5			2.2		307 Btuh	
5	Frame - Wood - Ext						0.09	13.0/0.6	288.0			2.2		633 Btuh	
6	Frame - Wood - Ext						0.09	13.0/0.6	39.0			2.2		86 Btuh	
7	Frame - Wood - Ext						0.09	13.0/0.6	54.0			2.2		119 Btuh	
8	Frame - Wood - Ext						0.09	13.0/0.6	147.0			2.2		323 Btuh	
9	Frame - Wood - Ext						0.09	13.0/0.6	30.0			2.2		66 Btuh	
10	Frame - Wood - Ext						0.09	13.0/0.6	24.5			2.2		54 Btuh	
11	Frame - Wood - Ext						0.09	13.0/0.6	30.0			2.2		66 Btuh	
12	Frame - Wood - Ext						0.09	13.0/0.6	45.0			2.2		99 Btuh	
13	Frame - Wood - Ext						0.09	13.0/0.6	67.5			2.2		148 Btuh	
14	Frame - Wood - Ext						0.09	13.0/0.6	18.0			2.2		40 Btuh	
15	Frame - Wood - Ext						0.09	13.0/0.6	74.0			2.2		163 Btuh	
16	Frame - Wood - Ext						0.09	13.0/0.6	18.0			2.2		40 Btuh	
17	Frame - Wood - Ext						0.09	13.0/0.6	89.0			2.2		196 Btuh	
18	Frame - Wood - Ext						0.09	13.0/0.6	220.0			2.2		484 Btuh	
	Wall Total								1629 (sqft)					3581 Btuh	
Doors	Type								Area (sqft)			HTM		Load	
1	Wood - Exterior								20.0			13.8		276 Btuh	
2	Insulated - Exterior								24.0			13.8		331 Btuh	
	Door Total								44 (sqft)					607 Btuh	
Ceilings	Type/Color/Surface						U-Value	R-Value	Area(sqft)			HTM		Load	
1	Vented Attic/Light/Shingle						0.032	30.0/0.0	1945.0			1.40		2725 Btuh	
	Ceiling Total								1945 (sqft)					2725 Btuh	
Floors	Type							R-Value	Size			HTM		Load	
1	Slab On Grade							0.0	1945 (ft-perimeter)			0.0		0 Btuh	
	Floor Total								1945.0 (sqft)					0 Btuh	
	Envelope Subtotal:													11724 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

NW Josephine Street
Lake City, FL 32055

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Hopper Residence

10/17/2019

Infiltration	Type Natural	Average ACH 0.14	Volume(cuft) 17505	Wall Ratio 1	CFM= 39.5	Load 821 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230	Appliance +	1200	Load 2580 Btuh
	Sensible Envelope Load:					15125 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.314)	4748 Btuh
	Sensible Load All Zones					19874 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

NW Josephine Street
Lake City, FL 32055

Project Title: Hopper Residence

Climate: FL_GAINESVILLE_REGIONAL_A

10/17/2019

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	15125 Btuh
	Sensible Duct Load	4748 Btuh
	Total Sensible Zone Loads	19874 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	19874 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1363 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1147 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3710 Btuh
	TOTAL GAIN	23583 Btuh

EQUIPMENT

1. Central Unit	#	36000 Btuh
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*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



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:	☒		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	☒		
3	Condition space (Sq. Ft.)	Yes	No	NA
	Total (Sq. Ft.) under roof			

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal 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		
		Yes	No	NA
8	Plans or specifications must show compliance with FBCR Chapter 3			
		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 specifically designed by the registered design professional.	Yes		☒

Elevations Drawing including:

14	All side views of the structure	Yes		☒
15	Roof pitch	Yes		☒
16	Overhang dimensions and detail with attic ventilation	Yes		☒
17	Location, size and height above roof of chimneys	Yes		☒
18	Location and size of skylights with Florida Product Approval	Yes		☒
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	Yes		☐
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)	Yes		☐
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	Yes		☐
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	Yes		☐
32	Any special support required by soil analysis such as piling.	Yes		☐
33	Assumed load-bearing value of soil _____ Pound Per Square Foot	Yes		☐
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 taped 6 inches and 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	Yes		☐
41	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers	Yes		☐
42	Girder type, size and spacing to load bearing walls, stem wall and/or piers	Yes		☐
43	Attachment of joist to girder	Yes		☐
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	Yes		☐
47	Show required covering of ventilation opening	Yes		☐
48	Show the required access opening to access to under-floor spaces	Yes		☐
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	Yes		☐
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
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	Yes		☐
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	Yes		☐

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		
<i>Select from Drop Down</i>				
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	Yes		☐

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
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****ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT.****

Select from Drop down

93	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. 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	Yes		☐
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.	Yes		☐
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)	Yes		☐
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.	Yes		☐
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.

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Plast-Pro	Smooth fiberglass doors	14803.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	YKK	Vinyl Windows	17169.1
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	James Hardi	Cement Hardi lap siding	13192-R1
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	GAF	asphalt shingles	11651.28 R1
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

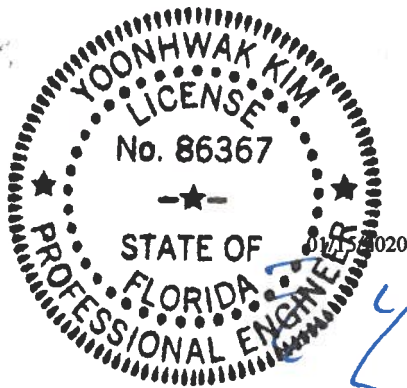
The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product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

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Contractor OR Agent Signature _____

Date _____

NOTES: _____

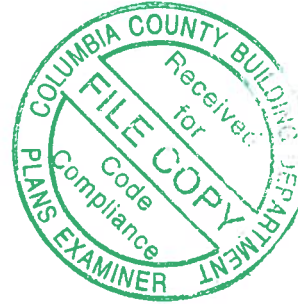


This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.



FL REG# 278, Yoonhwak Kim, FL PE #86367

Alpine, an ITW Company
6750 Forum Drive, Suite 305
Orlando, FL 32821
Phone: (800)755-6001
www.alpineitw.com



Site Information:	Page 1:
Customer: W. B. Howland Company, Inc.	Job Number: 19-3845
Job Description: /Hopper /IC CONST	
Address: FL	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	IntelliVIEW Version: 18.02.01B
	JRef #: 1WRX2150009
Wind Standard: ASCE 7-10	Wind Speed (mph): 130
Building Type: Closed	Roof Load (psf): 20.00-10.00- 0.00-10.00
	Floor Load (psf): None

This package contains general notes pages, 47 truss drawing(s) and 3 detail(s).

Item	Drawing Number	Truss
1	015.20.1620.38437	A01
3	015.20.1620.42277	A03
5	015.20.1620.45113	B01
7	015.20.1620.50543	B03
9	015.20.1620.57197	B05
11	015.20.1620.59070	C02
13	015.20.1621.06930	D02
15	015.20.1621.22513	G01
17	015.20.1621.25863	G03
19	015.20.1621.27913	G05
21	015.20.1621.30243	H01
23	015.20.1621.33120	J02
25	015.20.1621.36260	J04
27	015.20.1621.40020	J06
29	015.20.1621.42733	J08
31	015.20.1621.56367	J10
33	015.20.1622.00260	J12
35	015.20.1622.02663	J14
37	015.20.1622.40447	J16
39	015.20.1622.44043	J18
41	015.20.1622.51830	J20
43	015.20.1623.15897	K02
45	015.20.1623.27890	L02
47	015.20.1623.37563	L04
49	A14015ENC101014	

Item	Drawing Number	Truss
2	015.20.1620.40980	A02
4	015.20.1620.43673	A04
6	015.20.1620.46520	B02
8	015.20.1620.52040	B04
10	015.20.1620.58247	C01
12	015.20.1621.05680	D01
14	015.20.1621.08907	D03
16	015.20.1621.24370	G02
18	015.20.1621.26977	G04
20	015.20.1621.28840	G06
22	015.20.1621.32120	J01
24	015.20.1621.34890	J03
26	015.20.1621.38710	J05
28	015.20.1621.41403	J07
30	015.20.1621.53070	J09
32	015.20.1621.58607	J11
34	015.20.1622.01563	J13
36	015.20.1622.04007	J15
38	015.20.1622.42683	J17
40	015.20.1622.45357	J19
42	015.20.1623.43493	K01
44	015.20.1623.26550	L01
46	015.20.1623.29483	L03
48	BRCLBSUB0119	
50	GBLLETIN0118	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AF&PA. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the immediate vertical Deflection, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI = Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment.

W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

1. AF&PA: American Forest & Paper Association, 1111 19th Street, NW, Suite 800, Washington, DC 20036; www.afandpa.org.

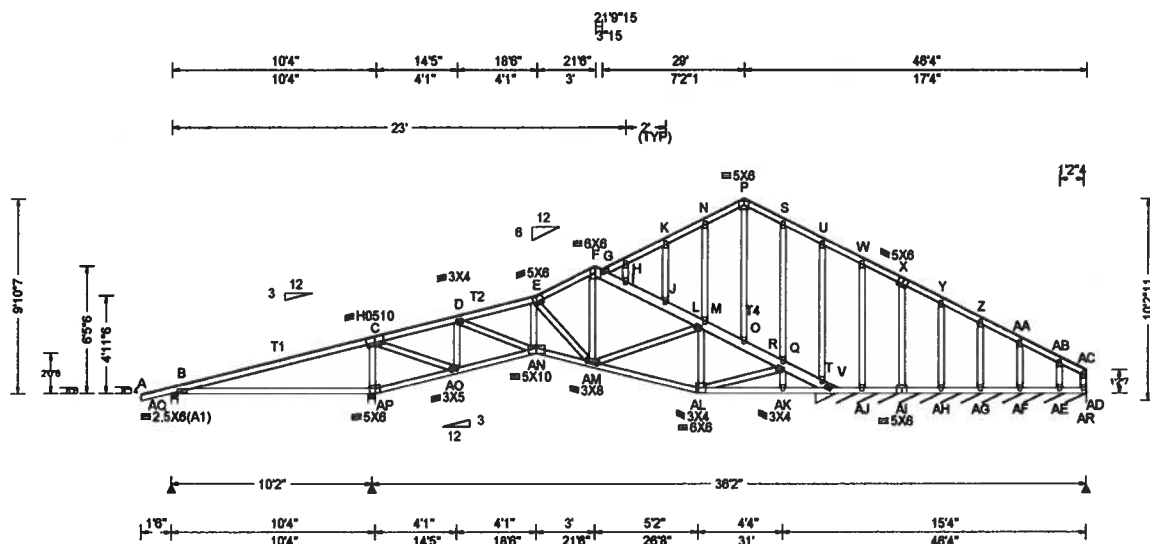
2. ICC: International Code Council; www.iccsafe.org.

3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.

4. TPI: Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, VA 22314; www.tpinst.org.

5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.co

SEQN: 578322 FROM: CDM	SPEC Qty: 1	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: A01	Cust: R 215 JRef: 1WRX2150009 T7 DrwNo: 015.20.1620.38437 / YK 01/15/2020
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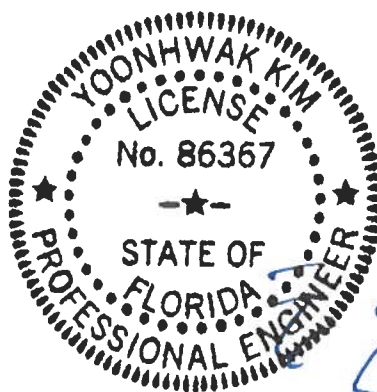
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 4.63 ft Loc. from endwall: not in 13.00 ft GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/def L/# VERT(LL): 0.095 AP 999 240 VERT(CL): 0.193 AP 632 180 HORZ(LL): 0.028 AP - - HORZ(TL): 0.058 AP - - Creep Factor: 2.0 Max TC CSI: 0.543 Max BC CSI: 0.811 Max Web CSI: 0.475 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL AQ 442 - / - / 150 / 99 / 239 AP 1592 - / - / 891 / 38 - / - AR*143 - / - / 84 / 2 - / - Wind reactions based on MWFRS AQ Brg Width = 4.0 Min Req = 1.5 AP Brg Width = 4.0 Min Req = 1.9 AR Brg Width = 164 Min Req = - Bearings AQ, AP, & T are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2; T1,T2 2x4 SP M-31;
T4 2x6 SP 2400F-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Plating Notes
All plates are 2X4 except as noted.

Wind
Wind loads based on MWFRS with additional C&C member design.

Additional Notes
Refer to General Notes for additional information
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.
The overall height of this truss excluding overhang is 9'-10".
Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



Chords	Tens.Comp.	Chords	Tens. Comp.
B - C	611 -177	J - L	359 -1116
C - D	245 -660	L - M	302 -1230
D - E	534 -1517	M - O	331 -1304
E - F	426 -1097	O - Q	266 -1362
F - G	356 -983	Q - R	293 -1400
G - H	315 -1030	R - T	209 -1442
H - J	323 -1067	T - V	288 -1534

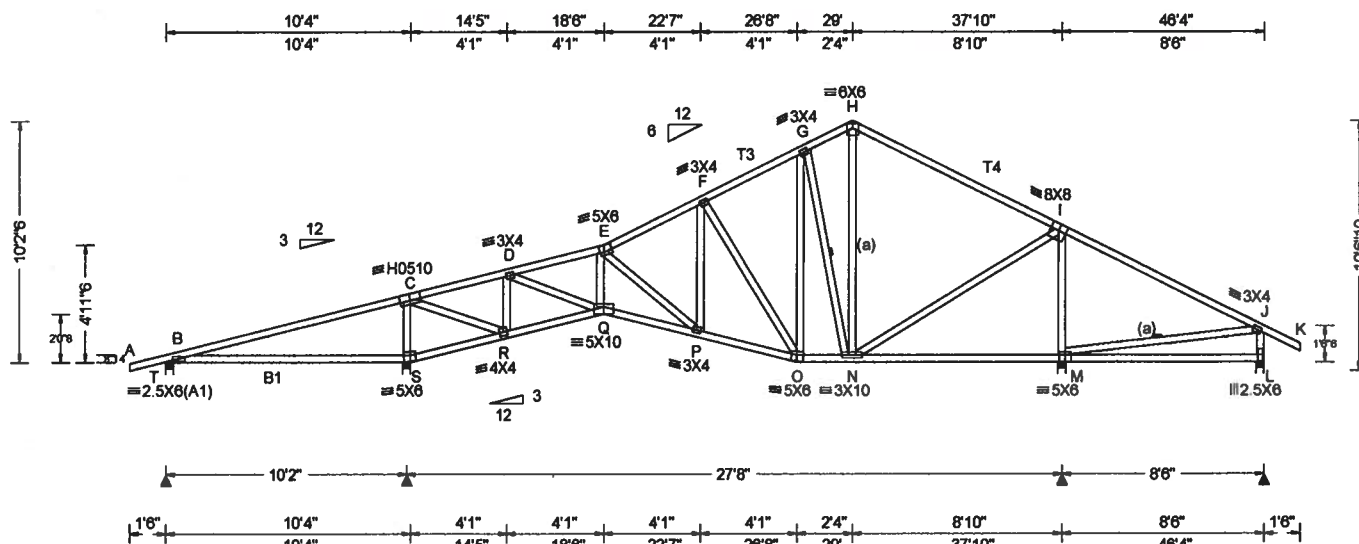
Chords	Tens.Comp.	Chords	Tens. Comp.
B - AP	138 -560	AM - AL	1228 -240
AP - AO	158 -613	AL - AK	1231 -134
AO - AN	676 -216	AK - V	1231 -133
AN - AM	1497 -449		

Chords	Tens.Comp.	Chords	Tens. Comp.
C - AP	410 -1246	D - AN	878 -255
C - AO	1248 -364	E - AM	293 -759
AO - D	245 -732	AM - F	705 -147

FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabrication, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.088 S 999 240	T	402	/-9	/-	/122	/102	/270
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.172 S 712 180	S	1795	/-	/-	/1012	/35	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.026 S - -	M	1895	/-	/-	/979	/31	/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.052 S - -	L	273	/-100	/-	/191	/88	/-
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	Wind reactions based on MWFRS						
Soffit: 2.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.955	T	Brg Width = 4.0			Min Req = 1.5		
Load Duration: 1.25	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.785	S	Brg Width = 4.0			Min Req = 1.5		
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max Web CSI: 0.928	M	Brg Width = 4.0			Min Req = 2.2		
	C&C Dist a: 4.63 ft	Rep Fac: Yes		L	Brg Width = 4.0			Min Req = 1.5		
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		Bearings T, S, M, & L are a rigid surface.						
	GCPI: 0.18	Plate Type(s):		Members not listed have forces less than 375#						
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 18.02.01B.0321.08							

Lumber	Maximum Top Chord Forces Per Ply (lbs)			
Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;	Chords	Tens.Comp.	Chords	Tens. Comp.
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;	B - C	923 - 205	F - G	330 - 717
Webs: 2x4 SP #3;	C - D	184 - 547	G - H	294 - 518

Bracing (a) Continuous lateral restraint equally spaced on	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"></td> <td style="width:33%; text-align: center;"> Maximum Bot Chord Forces Per Ply (lbs) </td> <td style="width:33%;"></td> </tr> <tr> <td>B - S</td> <td style="text-align: center;">214 - 863</td> <td>Q - P</td> </tr> <tr> <td>S - R</td> <td style="text-align: center;">236 - 928</td> <td>P - O</td> </tr> <tr> <td>R - Q</td> <td style="text-align: center;">573 - 100</td> <td>O - N</td> </tr> </table>		Maximum Bot Chord Forces Per Ply (lbs)		B - S	214 - 863	Q - P	S - R	236 - 928	P - O	R - Q	573 - 100	O - N
	Maximum Bot Chord Forces Per Ply (lbs)												
B - S	214 - 863	Q - P											
S - R	236 - 928	P - O											
R - Q	573 - 100	O - N											

member.

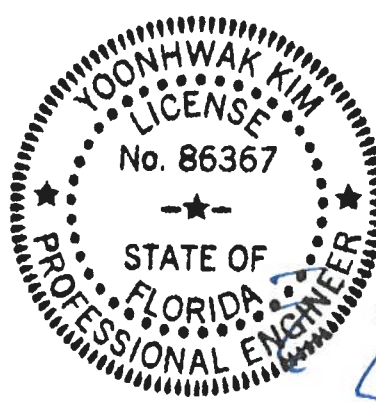
Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.



Maximum Bot Chord Forces Per Ply (lbs)							
Chords		Tens.Comp.		Chords		Tens. Comp.	
B - S	214	-863	Q - P	1608	-320		
S - R	236	-928	P - O	976	-158		
R - Q	573	-100	O - N	571	-55		

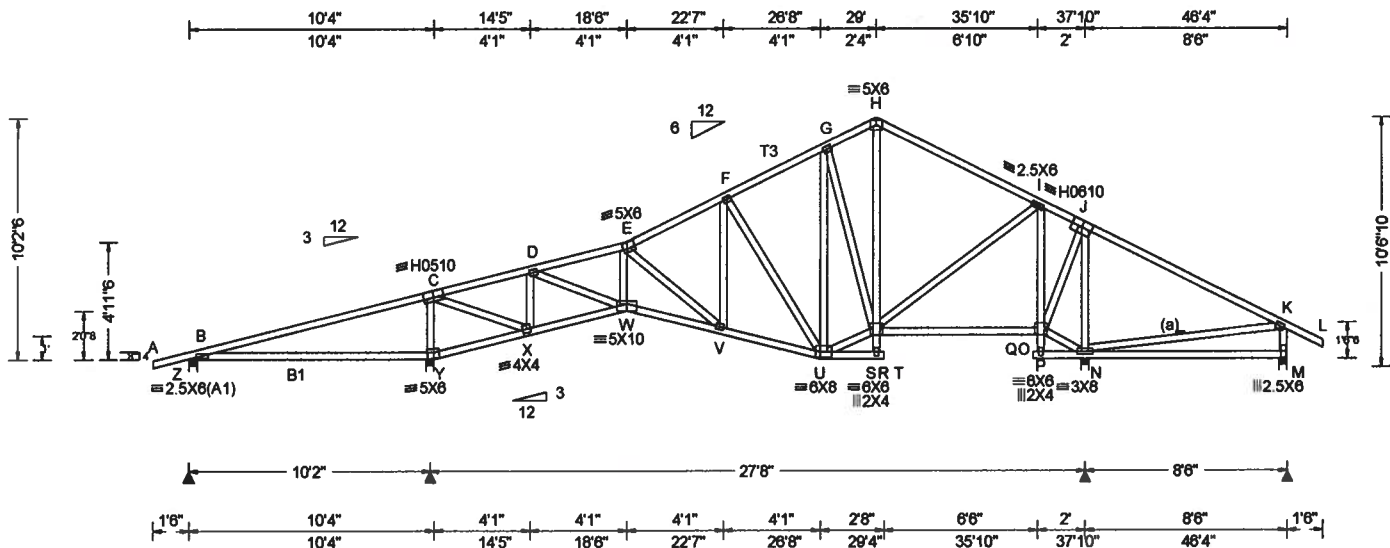
Wind Wind loads based on MWFRS with additional C&C member design.	Additional Notes Refer to General Notes for additional information WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below. The overall height of this truss excluding overhang is 10'-2".
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FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCS (Building Component Safety Information, by IFI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCS sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
 For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpins.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.085 Y 999 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.171 Y 713 180	Z	410	-	-	/127	/101	/270
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.026 M - -	Y	1749	-	-	/986	/35	-
	EXP: C Kzt: NA		HORZ(TL): 0.053 M - -	N	1890	-	-	/1018	/27	-
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	M	240	-145	-	/171	/103	-
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.552	Wind reactions based on MWFRS						
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.715	Z	Brg Width = 4.0			Min Req = 1.5		
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max Web CSI: 0.806	Y	Brg Width = 4.0			Min Req = 1.5		
Spacing: 24.0 "	C&C Dist a: 4.63 ft	Rep Fac: Yes		N	Brg Width = 4.0			Min Req = 1.9		
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		M	Brg Width = 4.0			Min Req = 1.5		
	GCpi: 0.18	Plate Type(s):		Bearings Z, Y, N, & M are a rigid surface.						
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 18.02.01B.0321.08	Members not listed have forces less than 375#						

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP #2; B1 2x4 SP M-31;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Wind

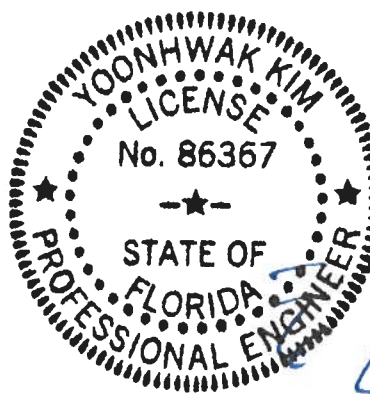
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 10'-2-6".



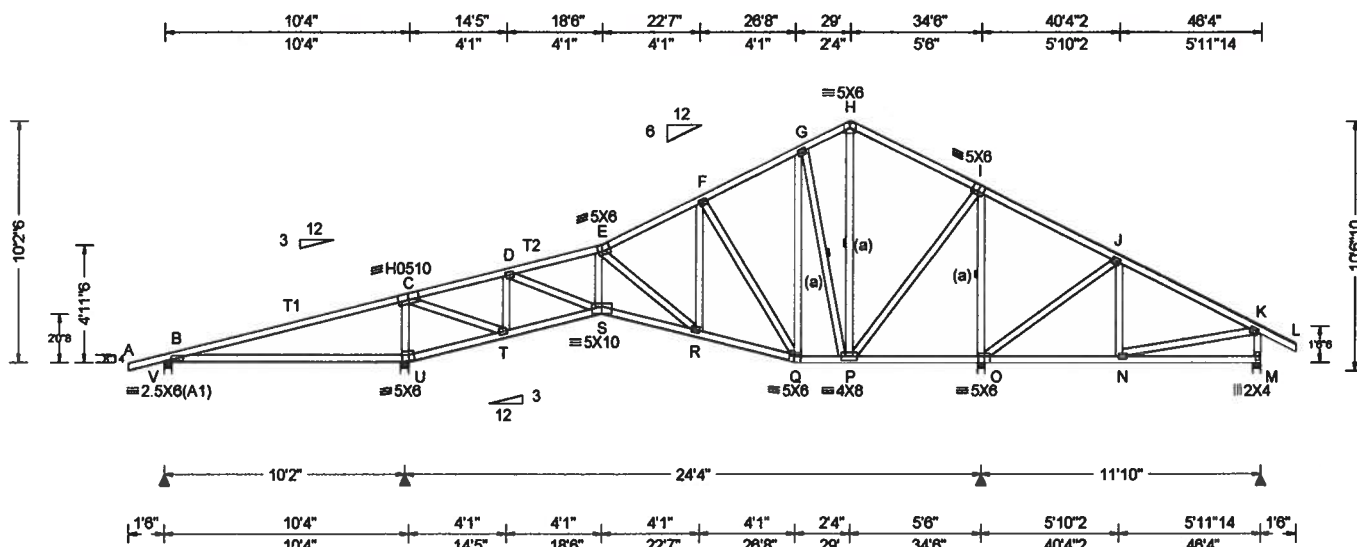
FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.098 U 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.193 U 631 180	V 440 -/- /158 /101 /271
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.029 U - -	U 1527 -/- /860 /27 -/
Des Ld: 40.00	EXP: C Kzt: NA	Code / Misc Criteria	HORZ(TL): 0.058 U - -	O 1955 -/- /993 /39 -/
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	M 390 -/- /- /282 /82 -/
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.621	Wind reactions based on MWFRS
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.816	V Brg Width = 4.0 Min Req = 1.5
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h		Max Web CSI: 0.786	U Brg Width = 4.0 Min Req = 1.8
	C&C Dist a: 4.63 ft	Rep Fac: Yes	O Brg Width = 4.0 Min Req = 2.3	M Brg Width = 4.0 Min Req = 1.5
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)		Bearings V, U, O, & M are a rigid surface.
	GCpl: 0.18	Plate Type(s):		Members not listed have forces less than 375#
	Wind Duration: 1.60	WAVE, HS	VIEW Ver: 18.02.01B.0321.08	

Lumber

Top chord: 2x4 SP #2; T1,T2 2x4 SP M-31;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 3X4 except as noted.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

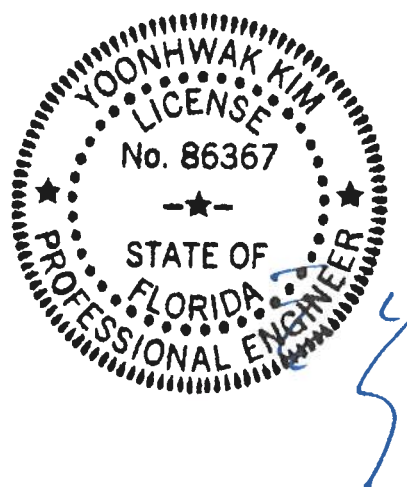
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

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The overall height of this truss excluding overhang is 10'-2".



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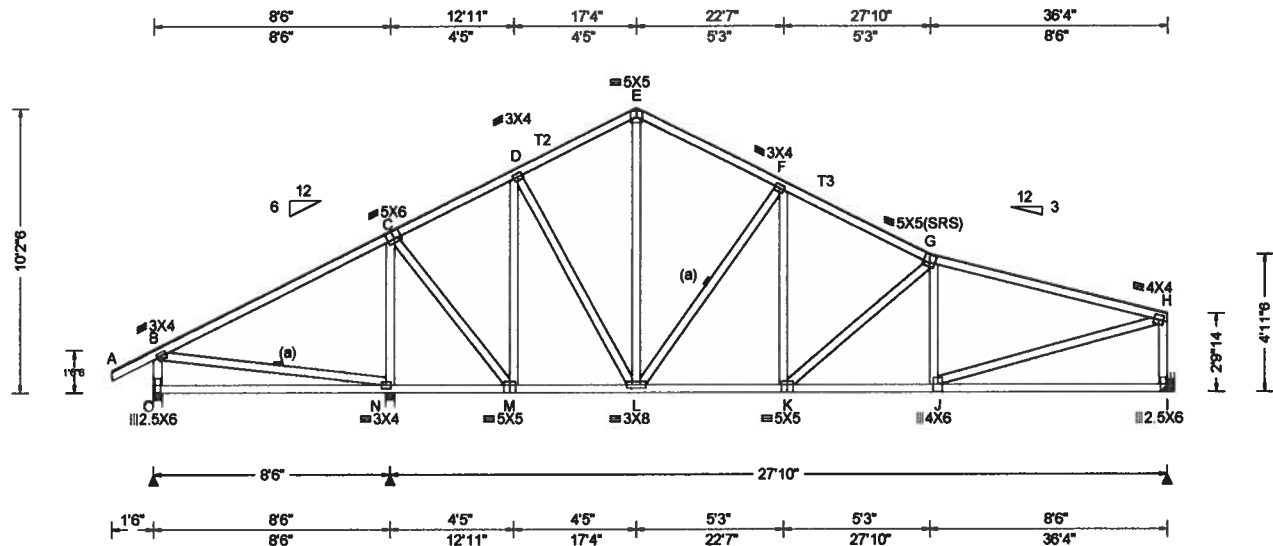
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.060 K 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.119 K 999 180	O 309 /-24 /- /168 /24 /219
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.021 E - -	N 1855 /- /- /1013 /332 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.041 E - -	I 1108 /- /- /573 /188 /-
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.666	O Brg Width = 4.0 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.790	N Brg Width = 4.0 Min Req = 1.8
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.979	I Brg Width = - Min Req = -
	C&C Dist a: 3.63 ft	FT/RT:20(0)/10(0)		Bearings O & N are a rigid surface.
	Loc. from endwall: not in 9.00 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE	VIEW Ver: 18.02.01B.0321.08	Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: 1.60			Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP M-31; T2,T3 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

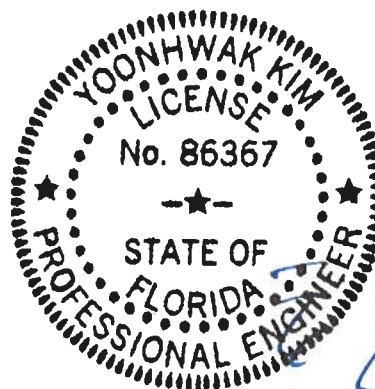
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 10'-2-6".



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 01/15/2020

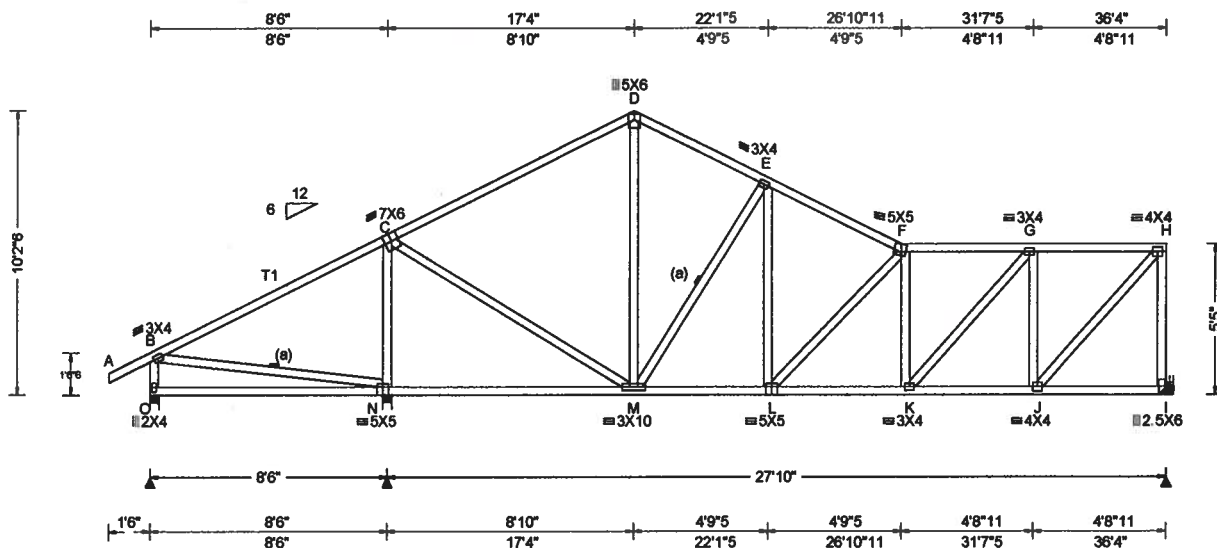
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0"	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.63 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.054 F 999 240 VERT(CL): 0.109 F 999 180 HORZ(LL): 0.017 D - - HORZ(TL): 0.034 D - - Creep Factor: 2.0 Max TC CSI: 0.959 Max BC CSI: 0.788 Max Web CSI: 0.930 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL O 324 /-11 /- /165 /13 /214 N 1790 /- /- /1037 /337 /- I 1083 /- /- /561 /199 /- Non-Gravity Wind reactions based on MWFRS O Brg Width = 4.0 Min Req = 1.5 N Brg Width = 4.0 Min Req = 2.1 I Brg Width = - Min Req = - Bearings O & N are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing
(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties
(J) Hanger Support Required, by others

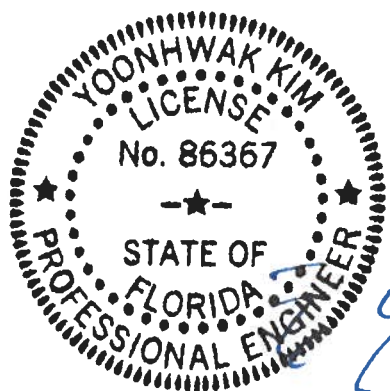
Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 10'-2".

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	951 -249	K - J	871 -245
L - K	1301 -369		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
N - C	463 -1547	F - K	155 -393
C - M	980 -190	K - G	636 -180
M - E	222 -643	G - J	274 -823
E - L	455 -116	J - H	1237 -344
L - F	174 -502	H - I	319 -1045



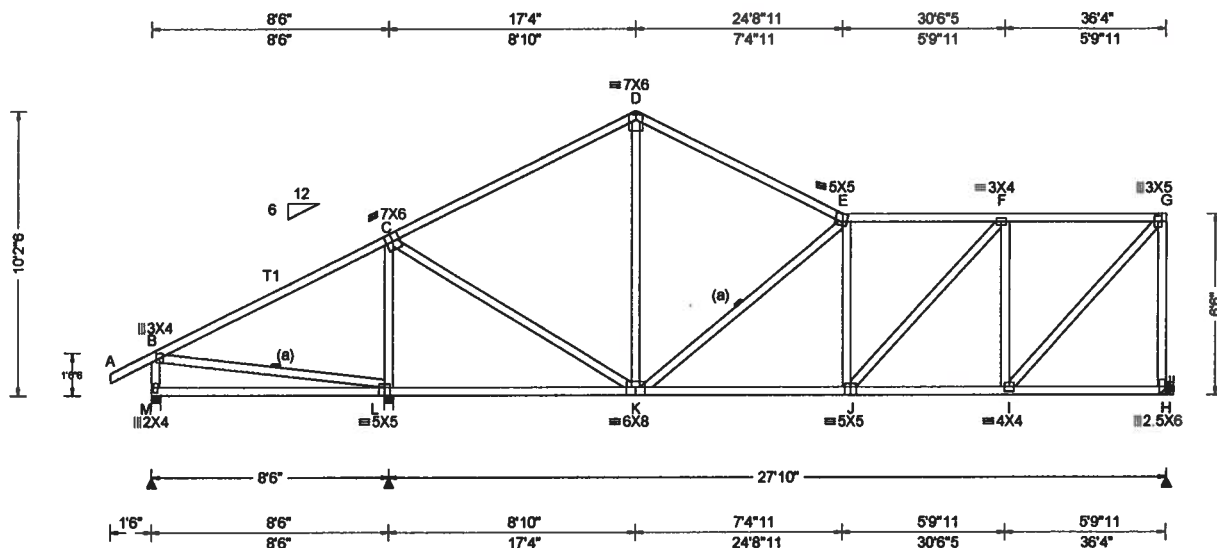
FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/def L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.051 E 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.103 E 999 180	M 336 -/- /- /173 /11 /206
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.016 D - -	L 1760 -/- /- /1039 /334 -/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.032 D - -	H 1090 -/- /- /549 /206 -/-
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.911	M Brg Width = 4.0 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.773	L Brg Width = 4.0 Min Req = 2.1
Spacing: 24.0 "	MWFRS Parallel Dist: h/2 to h	Rep Fac: Yes	Max Web CSI: 0.917	H Brg Width = - Min Req = -
	C&C Dist a: 3.63 ft	FT/RT:20(0)/10(0)		Bearings M & L are a rigid surface.
	Loc. from endwall: not in 4.50 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE		Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08	Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

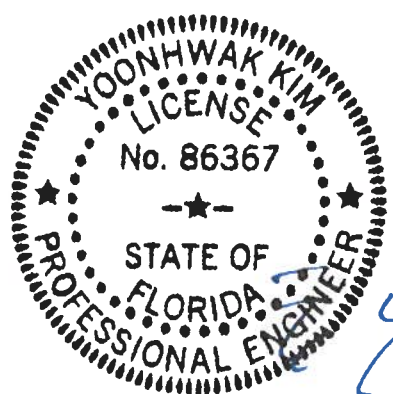
Bracing
(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties
(J) Hanger Support Required, by others

Purlins
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind
Wind loads based on MWFRS with additional C&C member design.
Right end vertical not exposed to wind pressure.

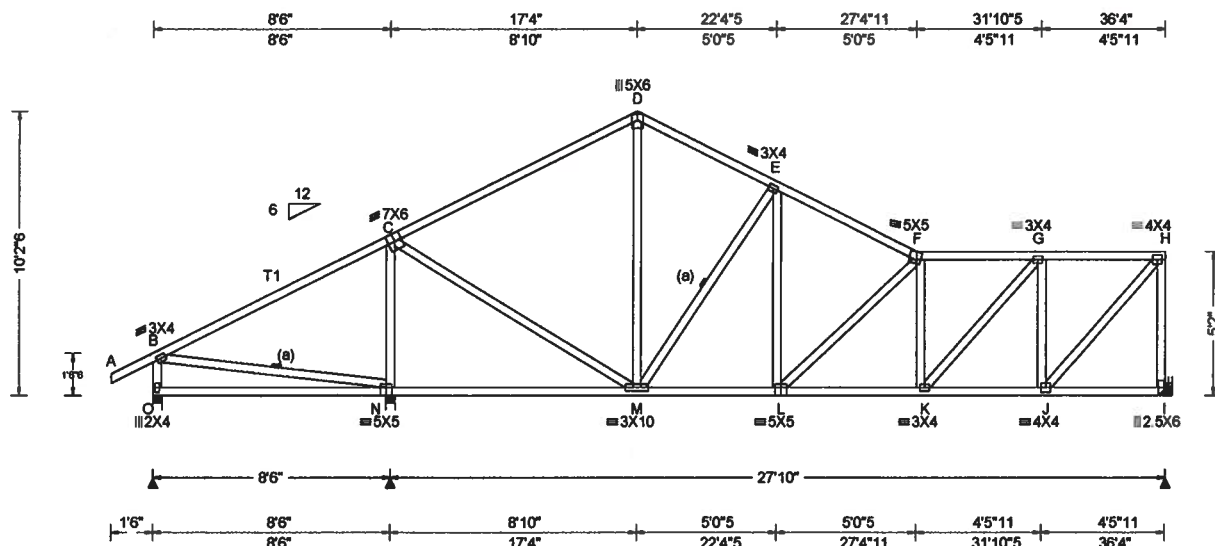
Additional Notes
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The overall height of this truss excluding overhang is 10'-2".



FL REG# 278, Yoonhwak Kim, FL PE #86367
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.054 F 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.109 F 999 180	O 323 /-14 /- /163 /14 /216
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.017 D - -	N 1794 /- /- /1036 /337 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.035 D - -	I 1082 /- /- /565 /197 /-
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.958	O Brg Width = 4.0 Min Req = 1.5
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.787	N Brg Width = 4.0 Min Req = 2.1
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.932	I Brg Width = - Min Req = -
	C&C Dist a: 3.63 ft	FT/RT:20(0)/10(0)		Bearings O & N are a rigid surface.
	Loc. from endwall: not in 4.50 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCpi: 0.18	WAVE		Maximum Top Chord Forces Per Ply (lbs)
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08	Chords Tens.Comp. Chords Tens. Comp.

Lumber
 Top chord: 2x4 SP #2; T1 2x4 SP M-31;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;

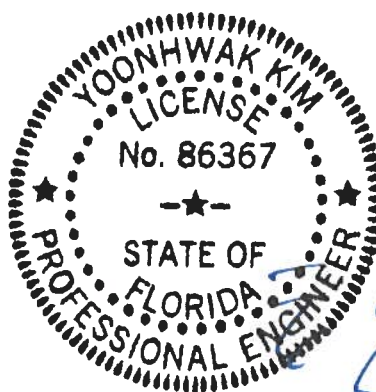
Bracing
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Hangers / Ties
 (J) Hanger Support Required, by others

Purlins
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Wind
 Wind loads based on MWFRS with additional C&C member design.
 Right end vertical not exposed to wind pressure.

Additional Notes
 Refer to General Notes for additional information
 The overall height of this truss excluding overhang is 10'-2-6."



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
M - L	971 -249	K - J	874 -245
L - K	1333 -376		

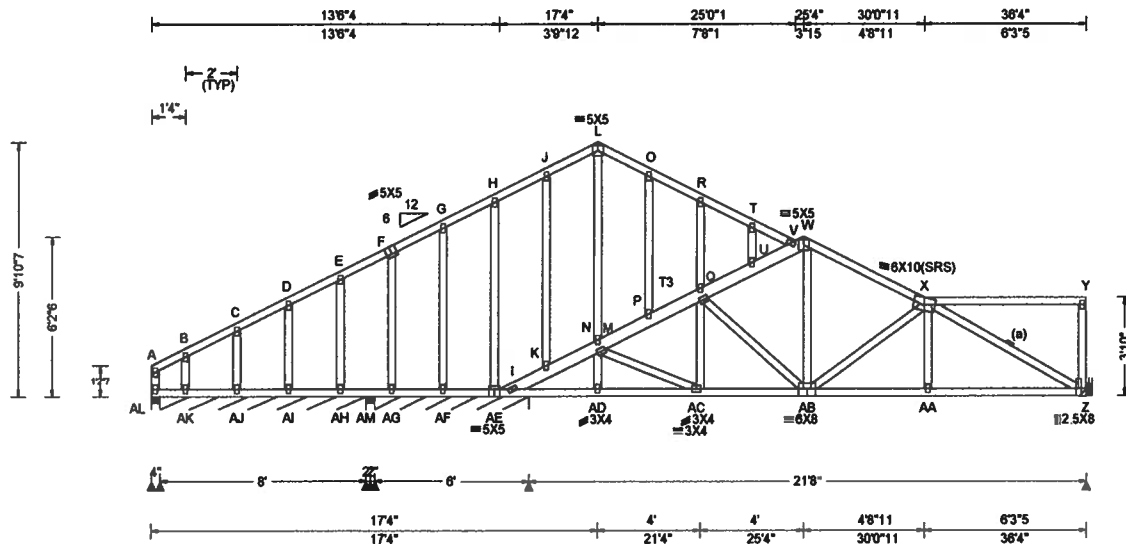
Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
N - C	462 -1551	F - K	164 -429
C - M	984 -188	K - G	680 -191
M - E	225 -652	G - J	273 -837
E - L	439 -109	J - H	1242 -344
L - F	175 -493	H - I	318 -1046

FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/15/2020

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 For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCEA: www.sbceaindustry.com; ICC: www.iccsafe.org





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.63 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.043 AB 999 240 VERT(CL): 0.088 AB 999 180 HORZ(LL): 0.022 Z - - HORZ(TL): 0.046 Z - - Creep Factor: 2.0 Max TC CSI: 0.538 Max BC CSI: 0.508 Max Web CSI: 0.399 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL AL 40 - / - / 36 / 7 / 213 AL* 81 - / - / 58 / 23 / - AM 28 - / - / 18 / - / - AM*234 - / - / 132 / 27 / - Z 909 - / - / 465 / 190 / - Non-Gravity Wind reactions based on MWFRS AL Brg Width = 4.0 Min Req = 1.5 AL Brg Width = 96.0 Min Req = - AM Brg Width = 4.0 Min Req = 1.5 AM Brg Width = 72.0 Min Req = - Z Brg Width = - Min Req = - Bearings AL, AL, AM, & AM are a rigid surface.

Lumber

Top chord: 2x4 SP #2; T3 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.

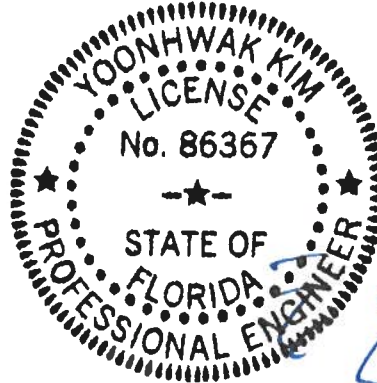
Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 9'-10-7/8\"/>

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



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Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
H - J	381 -47	O - R	384 -89
I - K	544 -1635	P - Q	697 -1335
J - L	421 -52	Q - U	622 -1019
K - M	478 -1576	U - V	570 -974
L - O	424 -67	V - W	622 -929
M - N	622 -1446	W - X	723 -1058
N - P	724 -1383		

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
AH-AG	324 -391	AC-AB	1200 -660
I-AD	1373 -460	AB-AA	1215 -727
AD-AC	1372 -460	AA- Z	1220 -726

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
Q-AB	150 -450	AB- X	218 -425
W-AB	644 -225	X - Z	827 -1382

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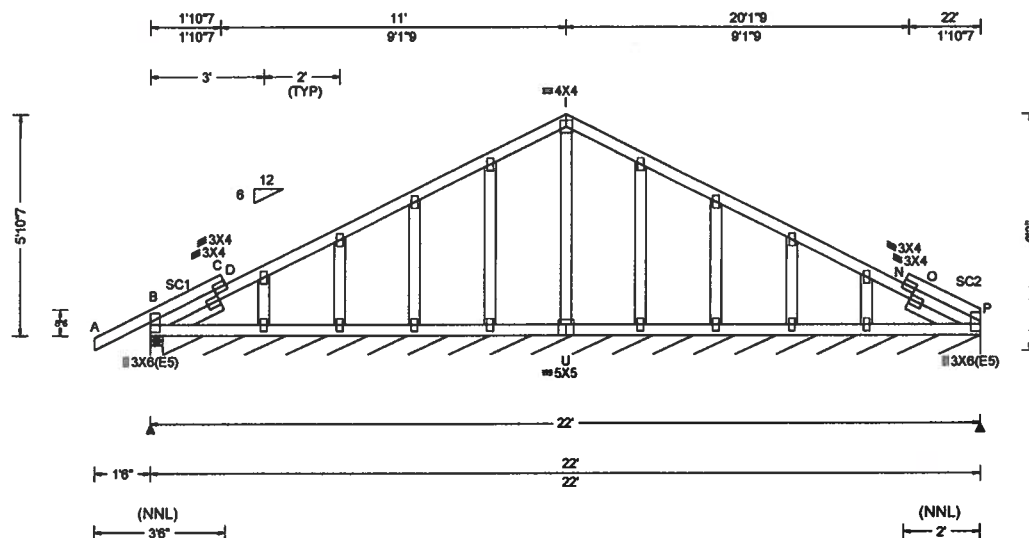
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SEQN: 578177 FROM: CDM	GABL Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: C01	Cust: R 215 JRef: 1WRX2150009 T41 DrwNo: 015.20.1620.58247 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 O 999 240 VERT(CL): 0.007 O 999 180 HORZ(LL): 0.002 O - - HORZ(TL): 0.003 O - - Creep Factor: 2.0 Max TC CSI: 0.194 Max BC CSI: 0.073 Max Web CSI: 0.066 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 241 /- /- /143 /42 /162 P* 77 /- /- /141 /14 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 P Brg Width = 260 Min Req = - Bearings B & B are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;
Lt Slider: 2x4 SP #3; block length = 1.500'
Rt Slider: 2x4 SP #3; block length = 1.500'

Plating Notes

All plates are 2X4 except as noted.

Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

Wind

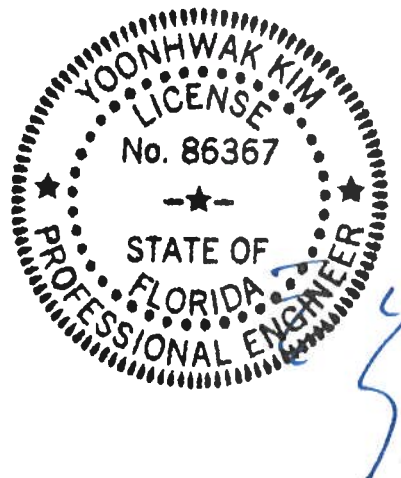
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notched area using 3x6.

The overall height of this truss excluding overhang is 5'-10-7/8".



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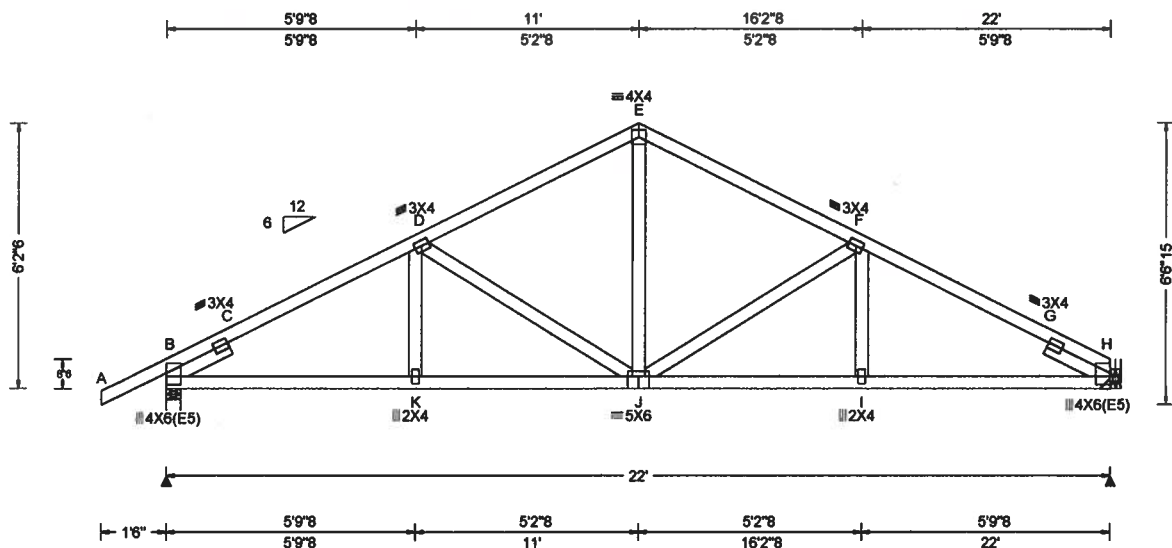
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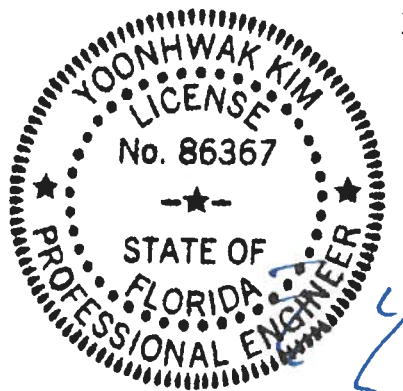
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)					
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity		
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.043 J 999 240	Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.087 J 999 180	B	1010	-/-	-/-	/605	/182 /163
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.020 I - -	H	903	-/-	-/-	/520	/154 -/-
	EXP: C Kzt: NA		HORZ(TL): 0.040 I - -	Wind reactions based on MWFRS					
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B	Brg Width = 4.0			Min Req = 1.5	
NCBCLL: 10.00	TCDL: 5.0 psf		Max TC CSI: 0.450	H	Brg Width = -			Min Req = -	
Soffit: 2.00	BCDL: 5.0 psf		Max BC CSI: 0.459	Bearing B is a rigid surface.					
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.448	Members not listed have forces less than 375#					
Spacing: 24.0 "	C&C Dist a: 3.00 ft			Maximum Top Chord Forces Per Ply (lbs)					
	Loc. from endwall: Any			Chords	Tens.Comp.		Chords	Tens. Comp.	
	GCpi: 0.18			B - C	628 - 1539		E - F	583 - 1043	
	Wind Duration: 1.60			C - D	642 - 1425		F - G	691 - 1438	
				D - E	563 - 1042		G - H	832 - 1602	
				Maximum Bot Chord Forces Per Ply (lbs)					
				Webs	Tens.Comp.		Webs	Tens. Comp.	
				D - J	266 - 421		J - F	279 - 440	
				E - J	565 - 276				
				Maximum Web Forces Per Ply (lbs)					
				Webs	Tens.Comp.		Webs	Tens. Comp.	
				D - J	266 - 421		J - F	279 - 440	
				E - J	565 - 276				
				Maximum Top Chord Forces Per Ply (lbs)					
				Chords	Tens.Comp.		Chords	Tens. Comp.	
				B - C	628 - 1539		E - F	583 - 1043	
				C - D	642 - 1425		F - G	691 - 1438	
				D - E	563 - 1042		G - H	832 - 1602	
				Maximum Bot Chord Forces Per Ply (lbs)					
				Webs	Tens.Comp.		Webs	Tens. Comp.	
				D - J	266 - 421		J - F	279 - 440	
				E - J	565 - 276				
				Maximum Web Forces Per Ply (lbs)					
				Webs	Tens.Comp.		Webs	Tens. Comp.	
				D - J	266 - 421		J - F	279 - 440	
				E - J	565 - 276				

Lumber
 Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;
 Lt Slider: 2x4 SP #3; block length = 1.613'
 Rt Slider: 2x4 SP #3; block length = 1.613'

Hangers / Ties
 (J) Hanger Support Required, by others

Wind
 Wind loads based on MWFRS with additional C&C member design.

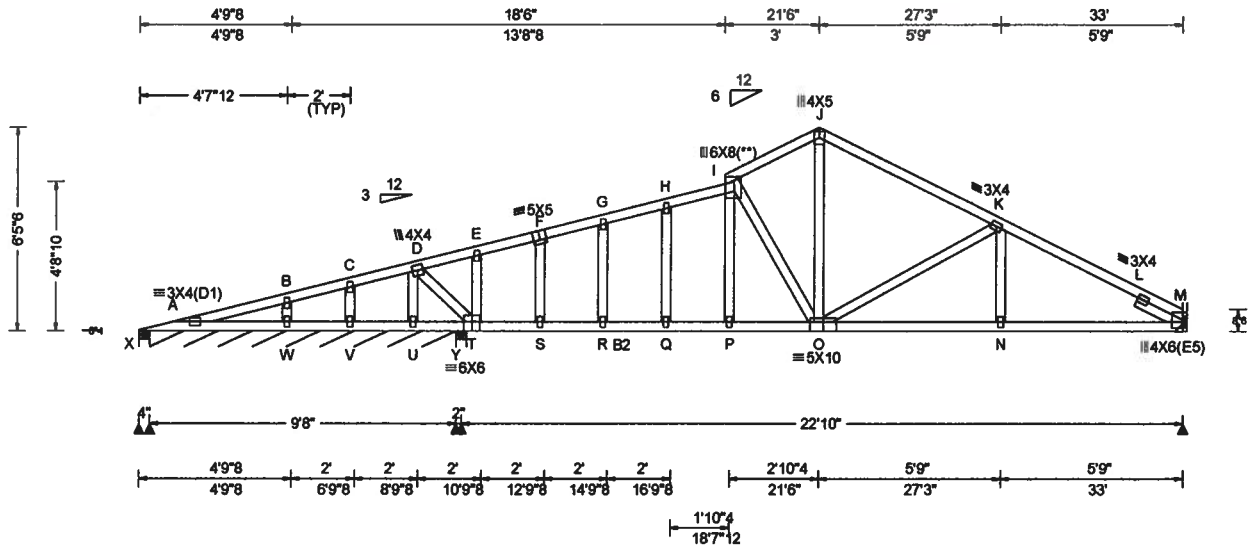
Additional Notes
 Refer to General Notes for additional information
 The overall height of this truss excluding overhang is 6'-2.6".



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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF						
TCCL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.161 H 999 240	Loc	R+	/R-	/Rh	/Rw	/U	/RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.326 H 839 180	X	231	-	-	/121	-	/131
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.027 G - -	X*	195	-	-	/101	/11	-
	EXP: C Kzt: NA		HORZ(TL): 0.057 G - -	Y	-	-577	-	-	/287	-
Des Ld: 40.00	Mean Height: 15.00 ft		Creep Factor: 2.0	M	1055	-	-	/622	/41	-
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Max TC CSI: 0.572	Wind reactions based on MWFRS						
Soffit: 2.00	BCDL: 5.0 psf		Max BC CSI: 0.870	X	Brg Width = 4.0			Min Req = 1.5		
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h		Max Web CSI: 0.629	X	Brg Width = 116			Min Req = -		
Spacing: 24.0 "	C&C Dist a: 3.30 ft			Y	Brg Width = 4.0			Min Req = 1.5		
	Loc. from endwall: not in 9.00 ft			M	Brg Width = -			Min Req = -		
	GCpi: 0.18			Bearings X, X, & Y are a rigid surface.						
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08	Members not listed have forces less than 375#						

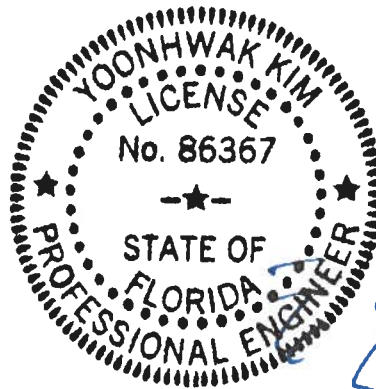
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Rt Slider: 2x4 SP #3; block length = 1.602'

Plating Notes
All plates are 2X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind
Wind loads based on MWFRS with additional C&C member design.

Blocking
Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 2 located at 0.3'
bearing 3 located at 10.0'

Additional Notes
Refer to General Notes for additional information
Negative reaction(s) of -577# MAX. from a non-wind load case requires uplift connection. See Maximum Reactions.
The overall height of this truss excluding overhang is 6-5.6.



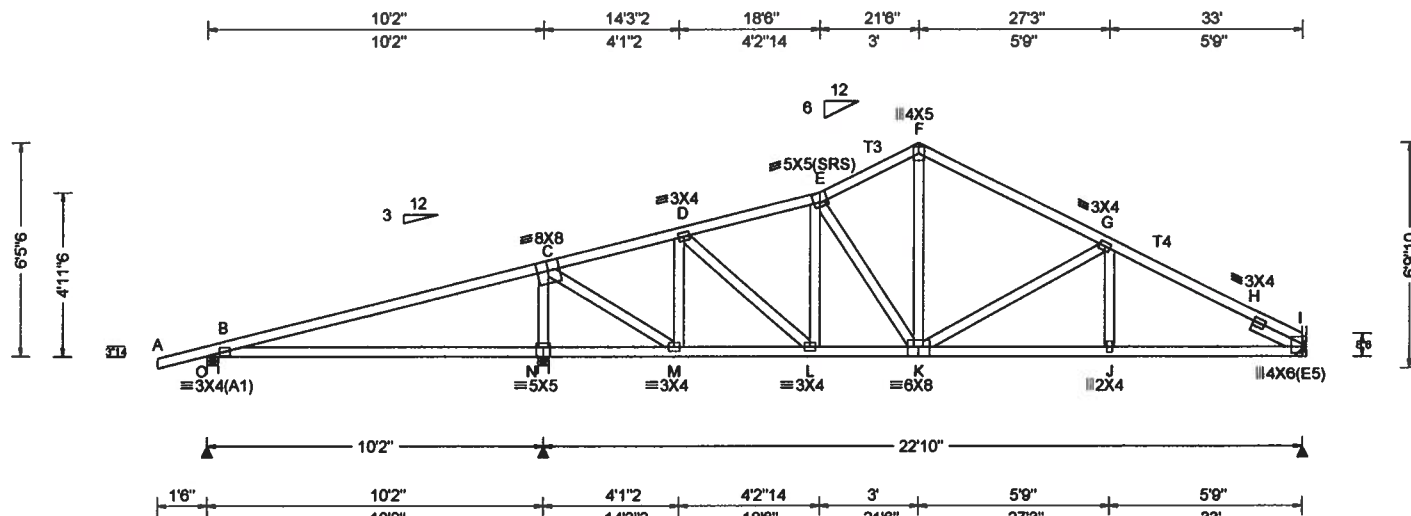
Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
A - W	395 -58	R - Q	1518 -353
W - V	386 -55	Q - P	1516 -352
V - U	383 -54	P - O	1516 -352
U - T	915 -150	O - N	1510 -352
T - S	1519 -353	N - M	1514 -352
S - R	1518 -353		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
U - D	360 -1439	I - O	281 -762
D - T	1651 -404	J - O	888 -274
T - E	134 -453	O - K	168 -467

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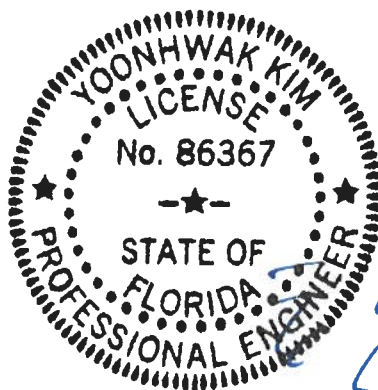


Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.30 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.090 N 999 240 VERT(CL): 0.184 N 655 180 HORZ(LL): 0.027 N - - HORZ(TL): 0.054 N - - Creep Factor: 2.0 Max TC CSI: 0.505 Max BC CSI: 0.741 Max Web CSI: 0.402	▲ Maximum Reactions (lbs) <table><tr><th rowspan="2">Loc</th><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>R+</th><th>/R-</th><th>/Rh</th><th>/Rw</th><th>/U</th><th>/RL</th></tr><tr><td>O</td><td>480</td><td>-/-</td><td>-</td><td>/220</td><td>/102</td><td>/141</td></tr><tr><td>N</td><td>1449</td><td>-/-</td><td>-</td><td>/759</td><td>/109</td><td>-</td></tr><tr><td>I</td><td>899</td><td>-/-</td><td>-</td><td>/539</td><td>/40</td><td>-</td></tr></table> Wind reactions based on MWFRS O Brg Width = 4.0 Min Req = 1.5 N Brg Width = 4.0 Min Req = 1.7 I Brg Width = - Min Req = - Bearings O & N are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table><tr><td>Chords</td><td>Tens.Comp.</td><td>Chords</td><td>Tens. Comp.</td></tr><tr><td>C - D</td><td>237 -721</td><td>F - G</td><td>340 -1002</td></tr><tr><td>D - E</td><td>333 -1003</td><td>G - H</td><td>396 -1442</td></tr><tr><td>E - F</td><td>346 -949</td><td>H - I</td><td>471 -1574</td></tr></table> Maximum Bot Chord Forces Per Ply (lbs) <table><tr><td>Chords</td><td>Tens.Comp.</td><td>Chords</td><td>Tens. Comp.</td></tr><tr><td>M - L</td><td>684 -155</td><td>K - J</td><td>1238 -286</td></tr><tr><td>L - K</td><td>958 -216</td><td>J - I</td><td>1242 -286</td></tr></table> Maximum Web Forces Per Ply (lbs) <table><tr><td>Webs</td><td>Tens.Comp.</td><td>Webs</td><td>Tens. Comp.</td></tr><tr><td>N - C</td><td>354 -1202</td><td>D - L</td><td>378 -93</td></tr><tr><td>C - M</td><td>975 -210</td><td>F - K</td><td>546 -197</td></tr><tr><td>M - D</td><td>140 -525</td><td>K - G</td><td>172 -485</td></tr></table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	O	480	-/-	-	/220	/102	/141	N	1449	-/-	-	/759	/109	-	I	899	-/-	-	/539	/40	-	Chords	Tens.Comp.	Chords	Tens. Comp.	C - D	237 -721	F - G	340 -1002	D - E	333 -1003	G - H	396 -1442	E - F	346 -949	H - I	471 -1574	Chords	Tens.Comp.	Chords	Tens. Comp.	M - L	684 -155	K - J	1238 -286	L - K	958 -216	J - I	1242 -286	Webs	Tens.Comp.	Webs	Tens. Comp.	N - C	354 -1202	D - L	378 -93	C - M	975 -210	F - K	546 -197	M - D	140 -525	K - G	172 -485
		Loc	Gravity			Non-Gravity																																																																												
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		Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	VIEW Ver: 18.02.01B.0321.08																																																																															

Lumber
Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Rt Slider: 2x4 SP #3; block length = 1.602'

Wind
Wind loads based on MWFRS with additional C&C member design.

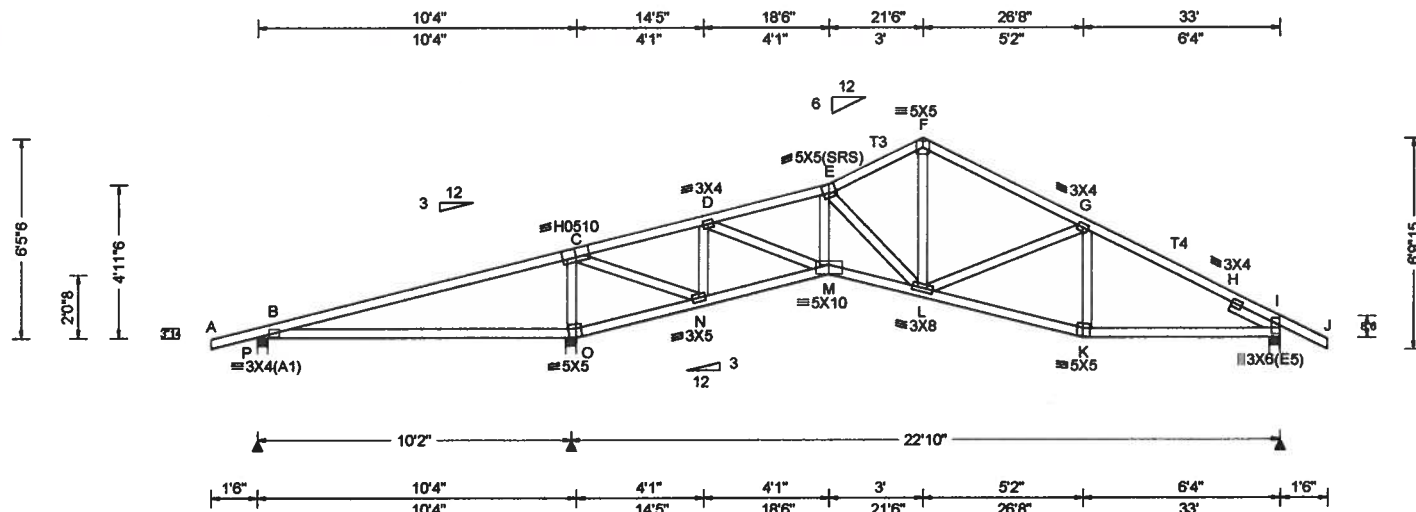
Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6'-5-6.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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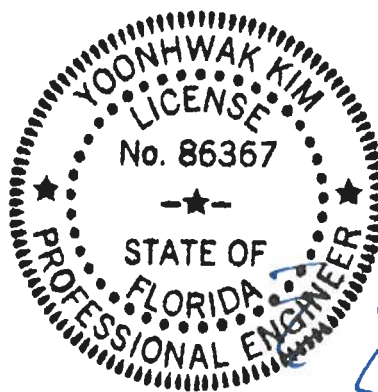


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)																												
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	GravityNon-Gravity <table><tr><td>Loc</td><td>R+</td><td>/R-</td><td>/Rh</td><td>/Rw</td><td>/U</td><td>/RL</td></tr><tr><td>P</td><td>438</td><td>-/-</td><td>-</td><td>/170</td><td>/105</td><td>/165</td></tr><tr><td>O</td><td>1596</td><td>-/-</td><td>-</td><td>/837</td><td>/101</td><td>-</td></tr><tr><td>I</td><td>955</td><td>-/-</td><td>-</td><td>/608</td><td>/51</td><td>-</td></tr></table>	Loc	R+	/R-	/Rh	/Rw	/U	/RL	P	438	-/-	-	/170	/105	/165	O	1596	-/-	-	/837	/101	-	I	955	-/-	-	/608	/51	-
Loc	R+	/R-	/Rh	/Rw	/U	/RL																										
P	438	-/-	-	/170	/105	/165																										
O	1596	-/-	-	/837	/101	-																										
I	955	-/-	-	/608	/51	-																										
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.096 O 999 240																													
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.194 O 631 180																													
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.029 O - -																													
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.058 O - -																													
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS																												
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.545	P Brg Width = 4.0 Min Req = 1.5																												
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.817	O Brg Width = 4.0 Min Req = 1.9																												
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Fac: Yes	Max Web CSI: 0.475	I Brg Width = 4.0 Min Req = 1.5																												
	C&C Dist a: 3.30 ft	FT/RT:20(0)/10(0)		Bearings P, O, & I are a rigid surface.																												
	Loc. from endwall: not in 9.00 ft	Plate Type(s):		Members not listed have forces less than 375#																												
	GCpi: 0.18	WAVE, HS		Maximum Top Chord Forces Per Ply (lbs)																												
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08	<table><tr><td>Chords</td><td>Tens.</td><td>Comp.</td><td>Chords</td><td>Tens.</td><td>Comp.</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Chords	Tens.	Comp.	Chords	Tens.	Comp.																						
Chords	Tens.	Comp.	Chords	Tens.	Comp.																											

Lumber
 Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;
 Rt Slider: 2x4 SP #3; block length = 1.724'

Wind
 Wind loads based on MWFRS with additional C&C member design.

Additional Notes
 Refer to General Notes for additional information
 The overall height of this truss excluding overhang is 6'-5-6.

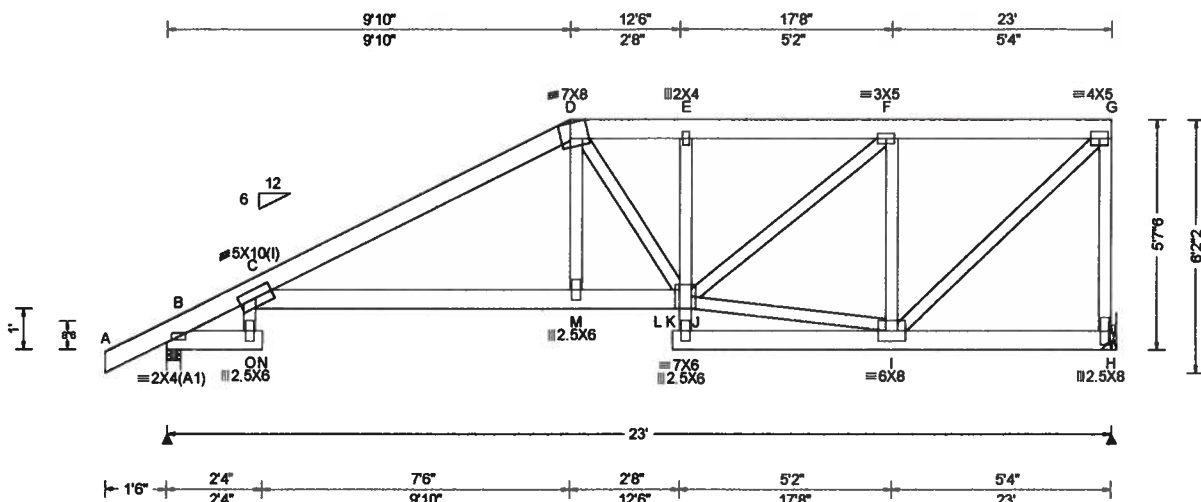


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2 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: No FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.270 N 999 240 VERT(CL): 0.541 N 506 180 HORZ(LL): 0.170 I - - HORZ(TL): 0.342 I - - Creep Factor: 2.0 Max TC CSI: 0.818 Max BC CSI: 0.329 Max Web CSI: 0.625 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 2333 -/- /- /578 -/ H 2741 -/- /- /705 -/ Non-Gravity Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 H Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 132 -537 E - F 537 -2090 C - D 635 -2486 F - G 301 -1180 D - E 540 -2100

Lumber

Top chord: 2x6 SP 2400f-2.0E;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;

Nailnote

Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 12.00" o.c.
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 62 plf at -1.50 to 62 plf at 9.83
TC: From 31 plf at 9.83 to 31 plf at 23.00
BC: From 4 plf at -1.50 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 9.86
BC: From 10 plf at 9.86 to 10 plf at 23.00
TC: 213 lb Conc. Load at 9.90, 11.84
TC: 203 lb Conc. Load at 13.84, 15.84, 17.84, 19.84
21.84
BC: 1303 lb Conc. Load at 9.86
BC: 110 lb Conc. Load at 11.84
BC: 153 lb Conc. Load at 13.84, 15.84, 17.84, 19.84
21.84

Plating Notes

(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads and reactions based on MWFRS.
Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information.
The overall height of this truss including overhangs is 5'-7.6".



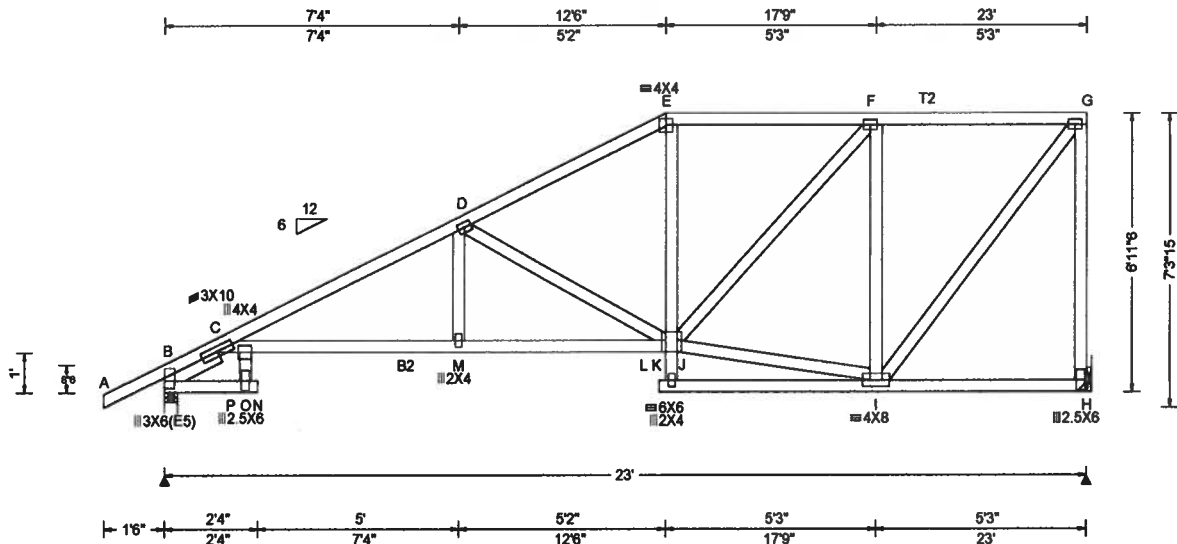
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01/15/2020

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Loading Criteria (psf)		Wind Criteria		Snow Criteria (Pg,Pf in PSF)		Defl/CSI Criteria		▲ Maximum Reactions (lbs)						
TCLL:	20.00	Wind Std:	ASCE 7-10	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc L/defl L/#	Gravity			Non-Gravity			
TCDL:	10.00	Speed:	130 mph	Pf: NA		Ce: NA	VERT(LL): 0.313 N 881 240	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
BCLL:	0.00	Enclosure:	Closed	Lu: NA	Cs: NA		VERT(CL): 0.638 N 432 180	B	1051	/-	/-	/682	/166	/200
BCDL:	10.00	Risk Category:	II	Snow Duration:	NA		HORZ(LL): 0.200 I - -	H	944	/-	/-	/524	/199	/-
Des Ld:	40.00	EXP:	C Kzt: NA				HORZ(TL): 0.408 I - -	Wind reactions based on MWFRS						
NCBCLL:	10.00	Mean Height:	15.00 ft				Creep Factor: 2.0	B	Brg Width = 4.0			Min Req = 1.5		
Soffit:	2.00	TCDL:	5.0 psf				Max TC CSI: 0.798	H	Brg Width = -			Min Req = -		
Load Duration:	1.25	BCDL:	5.0 psf				Max BC CSI: 0.650	Bearing B is a rigid surface.						
Spacing:	24.0 "	MWFRS Parallel Dist:	h/2 to h				Max Web CSI: 0.787	Members not listed have forces less than 375#						
		C&C Dist a:	3.00 ft					Maximum Top Chord Forces Per Ply (lbs)						
		Loc. from endwall:	not in 9.00 ft					Chords	Tens.Comp.		Chords	Tens. Comp.		
		GCpi:	0.18					B - C	1086	- 1775	E - F	319	- 977	
		Wind Duration:	1.60											

Lumber

Top chord: 2x4 SP M-31; T2 2x4 SP #2;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.500'

Plating Notes

All plates are 3X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

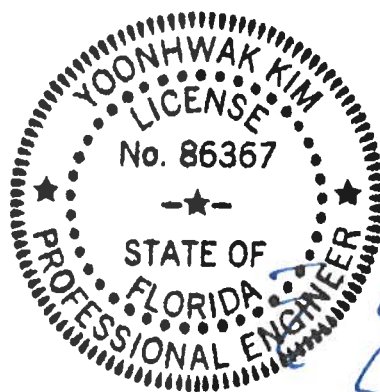
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6'-11-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

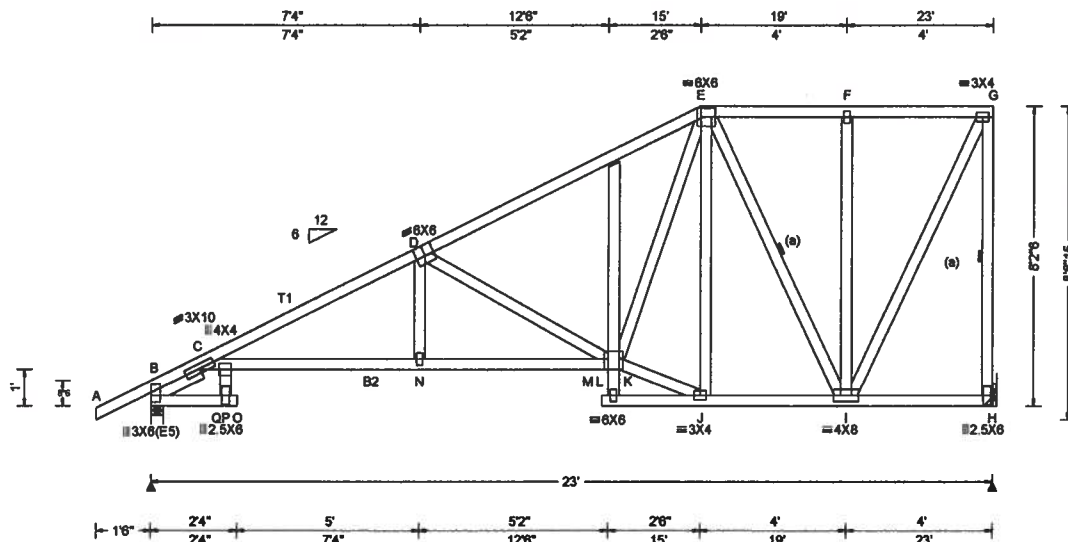
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SEQN: 576281 FROM: CDM	HIPM Qty: 1	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: G03	Cust: R 215 JRef: 1WRX2150009 T30 DrwNo: 015.20.1621.25863 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.311 O 887 240 VERT(CL): 0.633 O 435 180 HORZ(LL): 0.202 I - - HORZ(TL): 0.410 I - - Creep Factor: 2.0 Max TC CSI: 0.880 Max BC CSI: 0.643 Max Web CSI: 0.779 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1051 /- /- /694 /154 /236 H 944 /- /- /548 /208 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 H Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 1042 -1773 E - F 128 -408 C - D 397 -1909 F - G 128 -407 D - E 282 -1173

Lumber

Top chord: 2x4 SP #2; T1 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.500'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

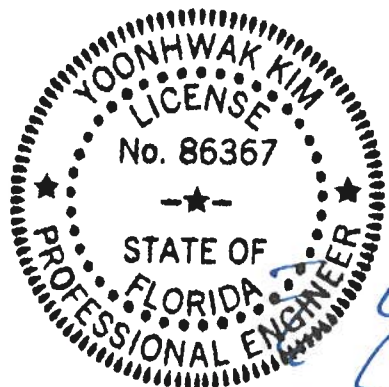
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8-2-6.



FL REG# 278, Yoonhwak Kim, FL PE #86367
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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
C - P	1508 -476	N - K	1708 -555
P - N	1710 -554	J - I	645 -217

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
D - K	288 -881	E - I	197 -526
K - E	888 -263	I - G	902 -284
K - J	713 -238	G - H	307 -909

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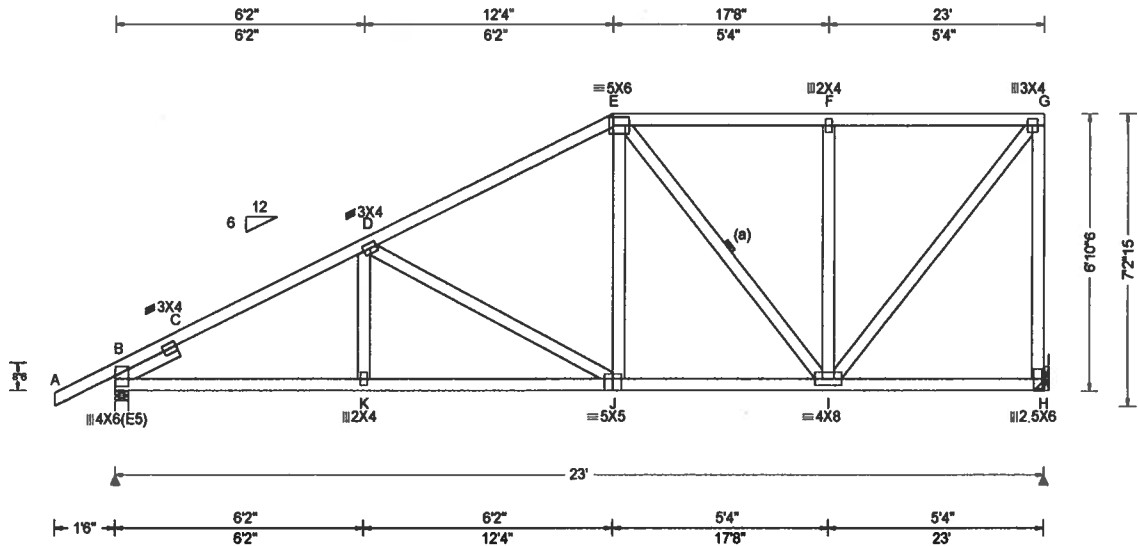
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Suite 305
Orlando FL, 32821

SEQN: 576264
FROM: CDM

HIPM
Ply: 1
Qty: 1

Job Number: 19-3845
/Hopper /IC CONST
Truss Label: G04

Cust: R 215 JRef: 1WRX2160009 T37
DrwNo: 015.20.1621.26977
/ YK 01/15/2020



Loading Criteria (psf)	
TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria	
Wind Std:	ASCE 7-10
Speed:	130 mph
Enclosure:	Closed
Risk Category:	II
EXP:	C Kzt: NA
Mean Height:	15.00 ft
TCDL:	5.0 psf
BCDL:	5.0 psf
MWFRS Parallel Dist:	h/2 to h
C&C Dist a:	3.00 ft
Loc. from endwall:	not in 9.00 ft
GCpi:	0.18
Wind Duration:	1.60

Snow Criteria (Pg,Pf in PSF)	
Pg:	NA Ct: NA CAT: NA
Pf:	NA Ce: NA
Lu:	NA Cs: NA
Snow Duration:	NA

Code / Misc Criteria	
Bldg Code:	FBC 2017 RES
TPI Std:	2014
Rep Fac:	Yes
FT/RT:	20(0)/10(0)
Plate Type(s):	WAVE

Defl/CSI Criteria	
PP Deflection in	loc L/defl L/#
VERT(LL):	0.041 K 999 240
VERT(CL):	0.083 K 999 180
HORZ(LL):	0.019 C - -
HORZ(TL):	0.039 C - -
Creep Factor:	2.0
Max TC CSI:	0.446
Max BC CSI:	0.562
Max Web CSI:	0.756

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1051	/-	/-	/681	/167	/198
H	944	/-	/-	/522	/198	/-
Wind reactions based on MWFRS						
B	Brg Width = 4.0			Min Req = 1.5		
H	Brg Width = -			Min Req = -		
Bearing B is a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords	Tens. Comp.		
B - C	314	-1627	E - F	189	-623	
C - D	303	-1503	F - G	189	-623	
D - E	256	-1039				

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.718'

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

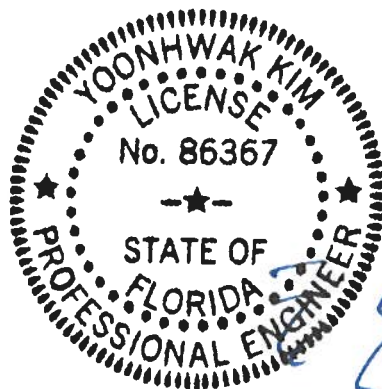
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6'-10-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
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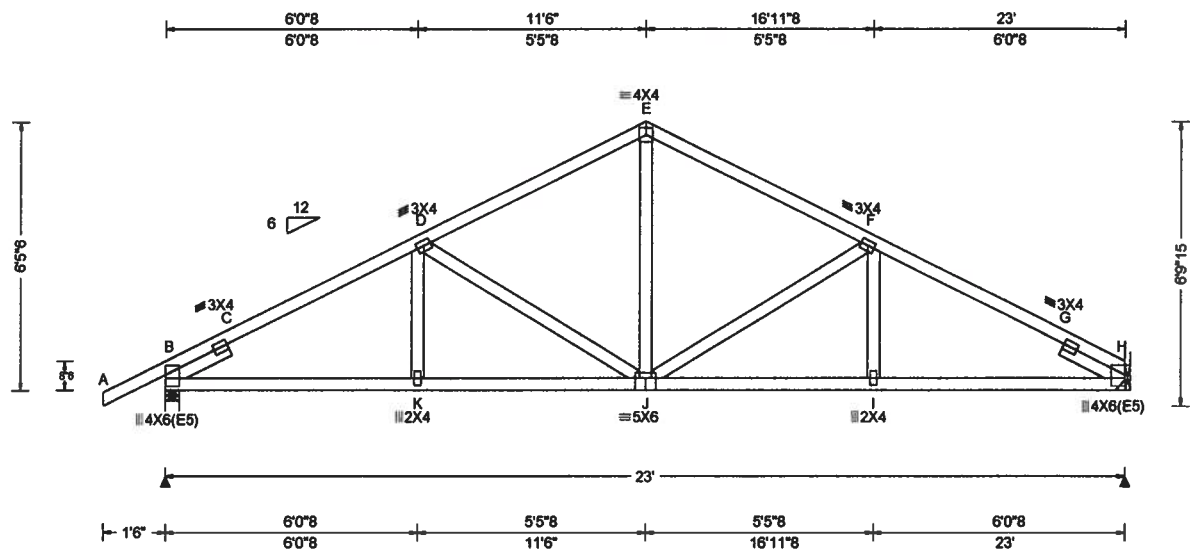
		Maximum Bot Chord Forces Per Ply (lbs)	
		Chords	Tens. Comp.
B - K	1291 - 419	J - I	848 - 276
K - J	1287 - 420		
		Maximum Web Forces Per Ply (lbs)	
		Webs	Tens. Comp.
D - J	166 - 507	I - G	989 - 299
E - J	413 - 65	G - H	299 - 900

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Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCCL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.049 G 999 240 VERT(CL): 0.100 G 999 180 HORZ(LL): 0.022 I - - HORZ(TL): 0.044 I - - Creep Factor: 2.0 Max TC CSI: 0.500 Max BC CSI: 0.496 Max Web CSI: 0.366 VIEW Ver: 18.02.01B.0321.08	▲ Maximum Reactions (lbs) Gravity LocR+ / R- / Rh Non-Gravity / Rw / U / RL B 1051 - / - /629 /26 /170 H 944 - / - /544 /16 - Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 H Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) ChordsTens.Comp. ChordsTens. Comp. B - C 369 - 1631 E - F 328 - 1095 C - D 350 - 1500 F - G 375 - 1513 D - E 315 - 1093 G - H 437 - 1695
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Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;
 Lt Slider: 2x4 SP #3; block length = 1.683'
 Rt Slider: 2x4 SP #3; block length = 1.683'

Hangers / Ties

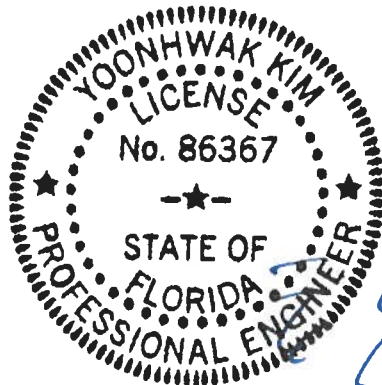
(J) Hanger Support Required, by others

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
 The overall height of this truss excluding overhang is 6-5-6.



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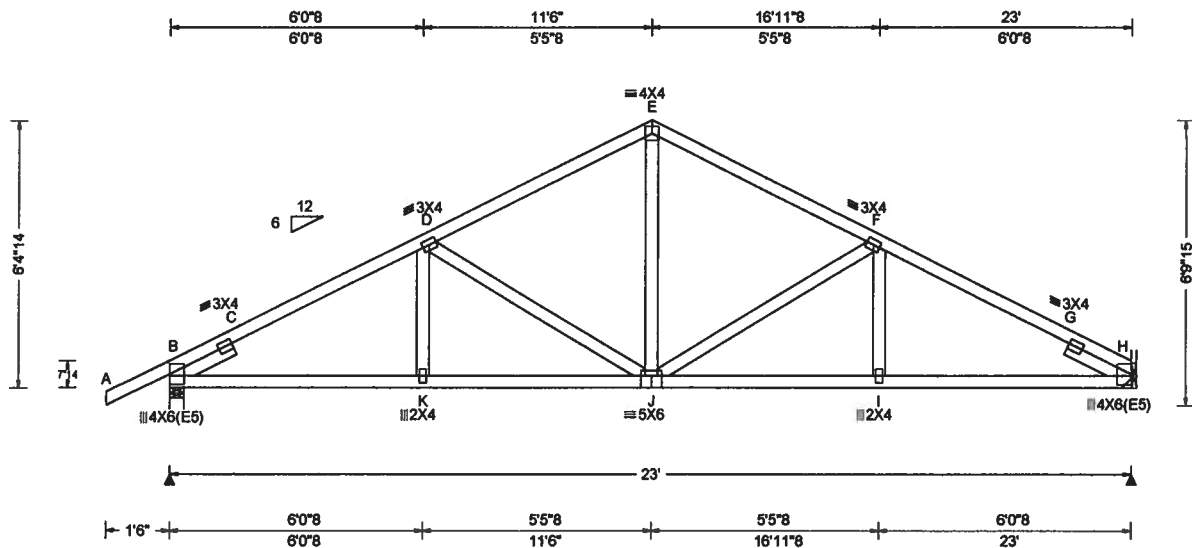
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Def/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.057 G 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.116 G 999 180	B 1050 -/- /- /629 /27 /170
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.023 C - -	H 944 -/- /- /545 /16 -
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.048 C - -	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B Brg Width = 4.0 Min Req = 1.5
Soffit: 2.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.525	H Brg Width = - Min Req = -
Load Duration: 1.25	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.518	Bearing B is a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max Web CSI: 0.376	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	Rep Fac: Yes		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Chords Tens.Comp. Chords Tens. Comp.
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	B - C 361 -1636 E - F 329 -1102

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;
 Lt Slider: 2x4 SP #3; block length = 1.665'
 Rt Slider: 2x4 SP #3; block length = 1.665'

Hangers / Ties

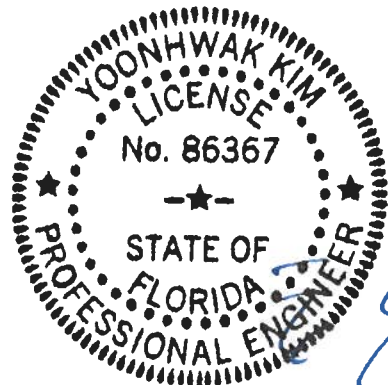
(J) Hanger Support Required, by others

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
 The overall height of this truss excluding overhang is 6'-4"-14".



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 01/15/2020

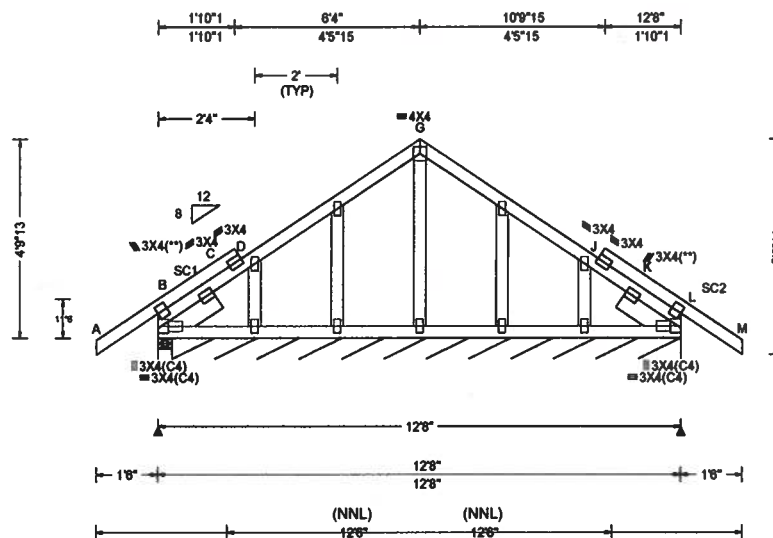
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or * = PLF
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 L 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 L 959 180	B 241 /- /- /140 /46 /167
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 L - -	L* 84 /- /- /46 /15 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.002 K - -	Wind reactions based on MWFRS
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	B Brg Width = 4.0 Min Req = 1.5
Soffit: 2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.205	L Brg Width = 148 Min Req = -
Load Duration: 1.25	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.046	Bearings B & B are a rigid surface.
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.049	Members not listed have forces less than 375#
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces Per Ply (lbs)
	Loc. from endwall: Any	Plate Type(s):		Chords Tens.Comp.
	GCp1: 0.18	WAVE	VIEW Ver: 18.02.01B.0321.08	K - L 253 -389
	Wind Duration: 1.60			

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Stack Chord: SC1 2x4 SP #2;
Stack Chord: SC2 2x4 SP #2;
Lt Slider: 2x6 SP 2400F-2.0E; block length = 1.50'
Rt Slider: 2x6 SP 2400F-2.0E; block length = 1.50'

All plates are 2X4 except as noted.

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

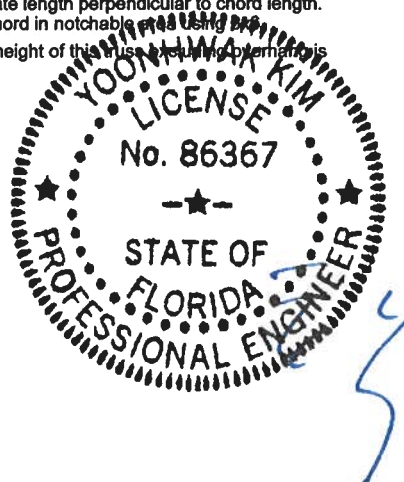
In lieu of structural panels use purlins to brace TC @ 24" oc.

Wind loads based on MWFRS with additional C&C member design.

Refer to General Notes for additional information
See DWGS A14015ENC101014 & GBLLETIN0118 for
gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in
area (NNL). Dropped top chord braced at 24" oc
intervals. Attach stacked top chord (SC) to dropped
top chord in notchable area using 3x4 tie-plates 24"
oc. Center plate on stacked/dropped chord
interface, plate length perpendicular to chord length.
Splice top chord in notchable area using DWS.

The overall height of the truss including purlins is
4.9-13.



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01/15/2020

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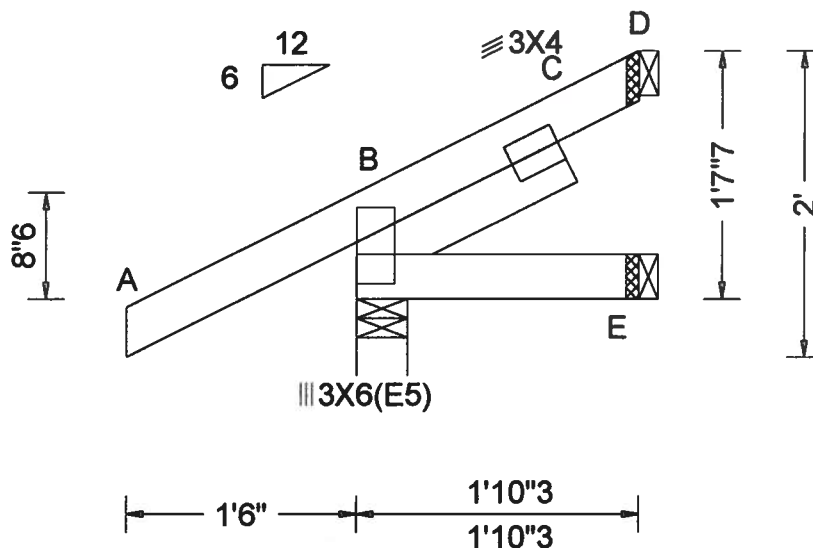
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SEQN: 576239 FROM: CDM	JACK Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J01	Cust: R 215 JRef: 1WRX2150009 T1 DrwNo: 015.20.1621.32120 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	B	217	/-	/-	/163	/40	/47
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	E	34	/-	/-	/23	/-	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 C - -	D	18	/-	/-	/19	/14	/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 C - -	Wind reactions based on MWFRS						
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B	Brg Width = 4.0		Min Req = 1.5			
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.301	E	Brg Width = 1.5		Min Req = -			
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.028	D	Brg Width = 1.5		Min Req = -			
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.019	Bearing B is a rigid surface.						
	C&C Dist a: 3.00 ft			Members not listed have forces less than 375#						
	Loc. from endwall: Any									
	GCpi: 0.18									
	Wind Duration: 1.60									

Lumber

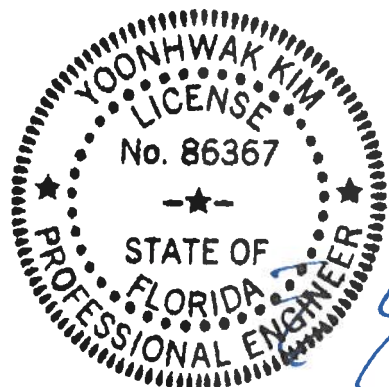
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #3; block length = 1.500'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 1'-7".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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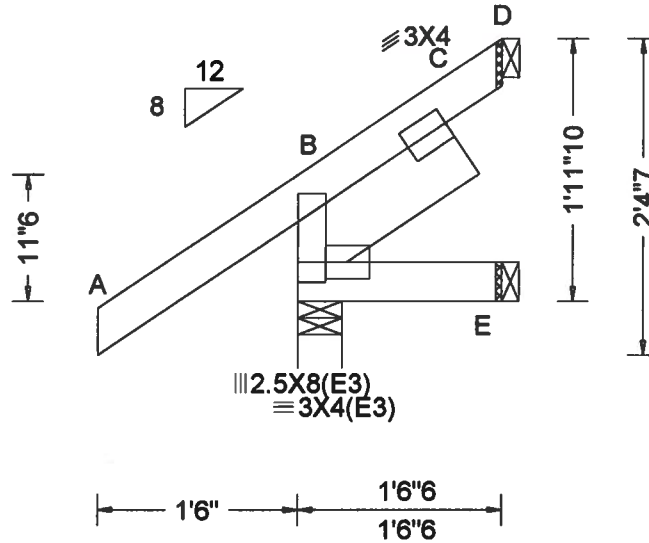
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SEQ#: 576224 FROM: CDM	JACK Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J02	Cust: R215 JRef: 1WRX2150009 T22 DrwNo: 015.20.1621.33120 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.001 E - - HORZ(TL): 0.001 E - - Creep Factor: 2.0 Max TC CSI: 0.184 Max BC CSI: 0.020 Max Web CSI: 0.004 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 218 /- /- /167 /30 /57 E 29 /- /- /20 /- /- D - /-1 /- /13 /21 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

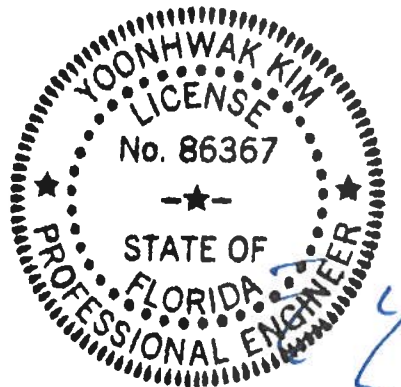
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 1-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!** ****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

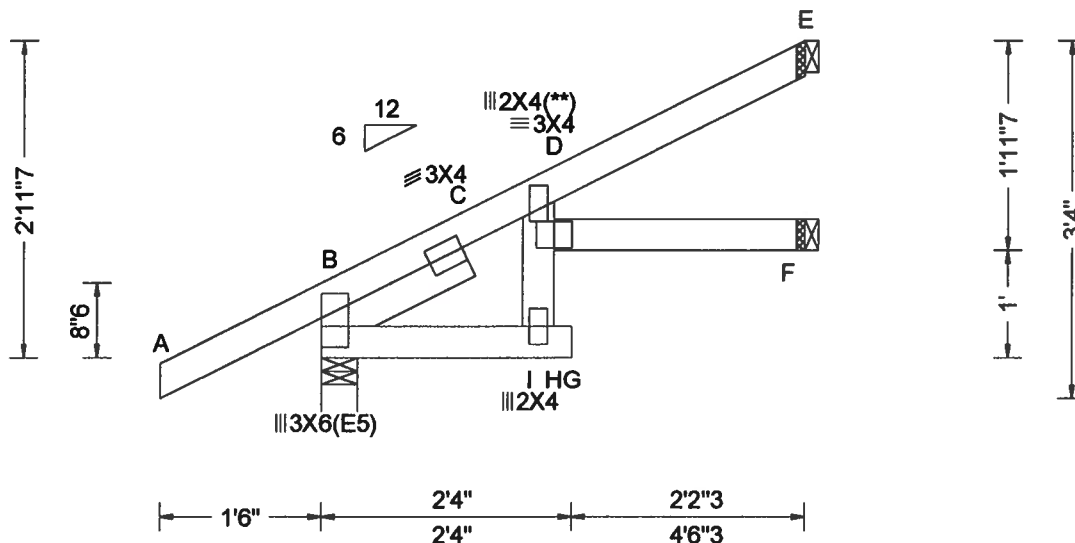
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 180A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.com; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576241 FROM: CDM	JACK Qty: 1	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: J03	Cust: R 215 JRef: 1WRX2150009 T2 DrwNo: 015.20.1621.34890 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.040 G 999 240	Loc R+ / R- / Rh / Rw / U / RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.079 G 685 180	B 303 - / - /216 /42 /85
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.023 D - -	F 56 - / - /39 /1 -
	EXP: C Kzt: NA		HORZ(TL): 0.046 D - -	E 134 - / - /77 /47 -
Des Ld: 40.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on MWFRS
NCBCLL: 10.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.357	B Brg Width = 4.0 Min Req = 1.5
Soffit: 2.00	BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.097	F Brg Width = 1.5 Min Req = -
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	Rep Fac: Yes	Max Web CSI: 0.141	E Brg Width = 1.5 Min Req = -
Spacing: 24.0 "	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)		Bearing B is a rigid surface.
	Loc. from endwall: not in 4.50 ft	Plate Type(s):		Members not listed have forces less than 375#
	GCp1: 0.18	WAVE		
	Wind Duration: 1.60		VIEW Ver: 18.02.01B.0321.08	

Lumber

Top chord: 2x4 SP #2;
 Bot chord: 2x4 SP #2;
 Webs: 2x4 SP #3;
 Lt Slider: 2x4 SP #3; block length = 1.500'

Plating Notes

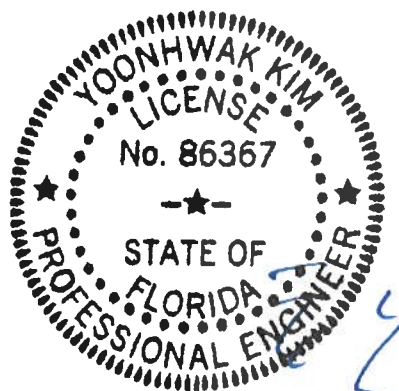
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
 The overall height of this truss excluding overhang is 2-11-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
 01/15/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

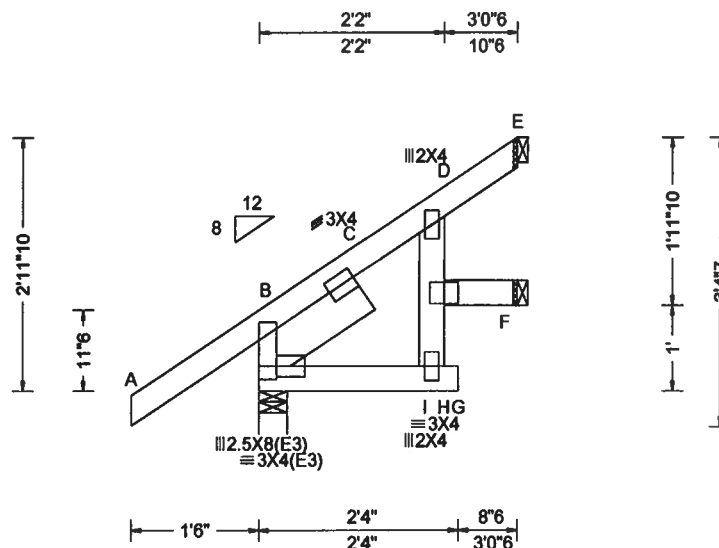
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCE) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCE: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
 AN ITW COMPANY
 6750 Forum Drive
 Suite 305
 Orlando FL, 32821

SEQN: 576235 FROM: CDM	JACK Qty: 1	Ply: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J04	Cust: R215 JRef: 1WRX2150009 T35 DrwNo: 015.20.1621.36260 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.005 G 999 240 VERT(CL): 0.011 G 999 180 HORZ(LL): -0.006 C - - HORZ(TL): 0.010 D - - Creep Factor: 2.0 Max TC CSI: 0.209 Max BC CSI: 0.051 Max Web CSI: 0.037 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 256 /- /- /189 /20 /85 F 25 /- /- /18 /5 /- E 84 /- /- /61 /39 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

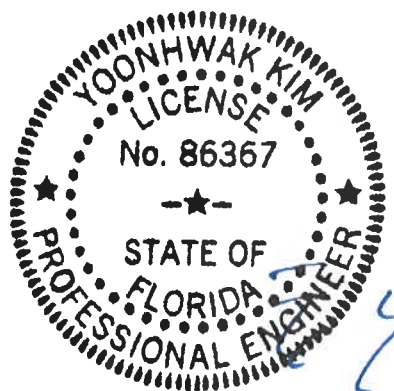
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

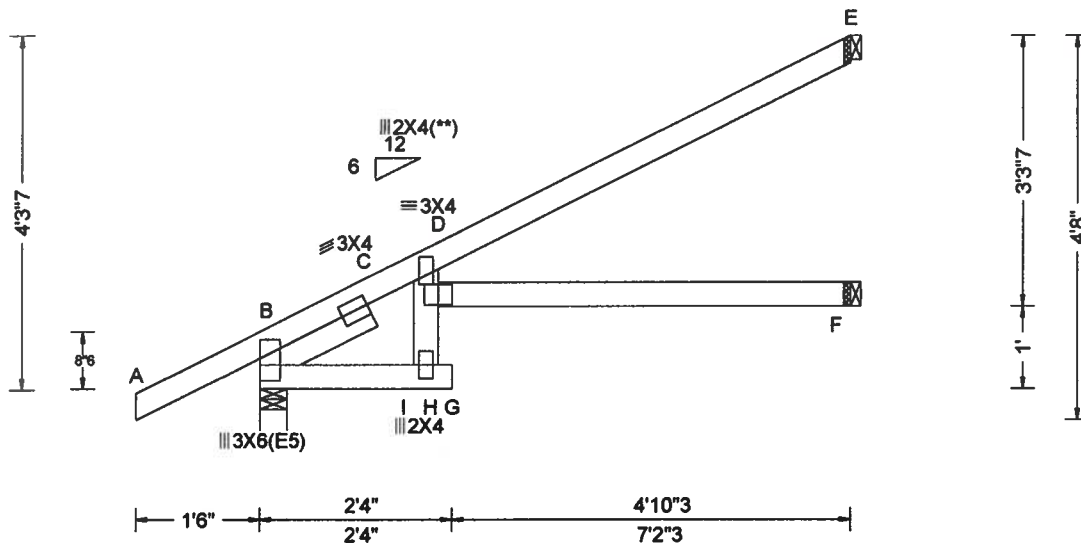
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCE) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinetw.com; SBCE: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
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Orlando FL, 32821

SEQN: 576243 FROM: CDM	JACK Qty: 1	Ply: 1 /Hopper /IC CONST Truss Label: J05	Cust: R 215 JRef: 1WRX2150009 T10 DrwNo: 015.20.1621.38710 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.170 G 506 240	B	406	/-	/-	/283	/49	/124
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.339 G 254 180	F	109	/-	/-	/76	/-	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.098 D - -	E	220	/-	/-	/122	/80	/-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.195 D - -	Wind reactions based on MWFRS						
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	B	Brg Width = 4.0		Min Req = 1.5			
Soffit: 2.00	TCDL: 5.0 psf		Max TC CSI: 0.416	F	Brg Width = 1.5		Min Req = -			
Load Duration: 1.25	BCDL: 5.0 psf		Max BC CSI: 0.365	E	Brg Width = 1.5		Min Req = -			
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2		Max Web CSI: 0.323	Bearing B is a rigid surface.						
	C&C Dist a: 3.00 ft			Members not listed have forces less than 375#						
	Loc. from endwall: not in 4.50 ft									
	GCpi: 0.18									
	Wind Duration: 1.60									
		Code / Misc Criteria	VIEW Ver: 18.02.01B.0321.08							
		Bldg Code: FBC 2017 RES								
		TPI Std: 2014								
		Rep Fac: Yes								
		FT/RT:20(0)/10(0)								
		Plate Type(s):								
		WAVE								

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.500'

Plating Notes

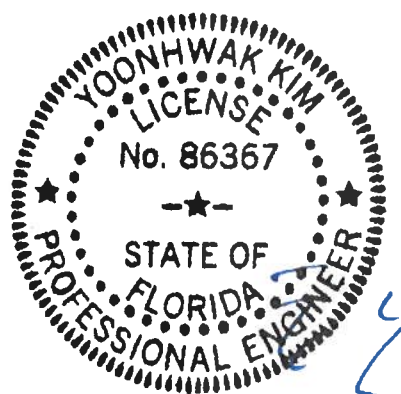
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-3-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

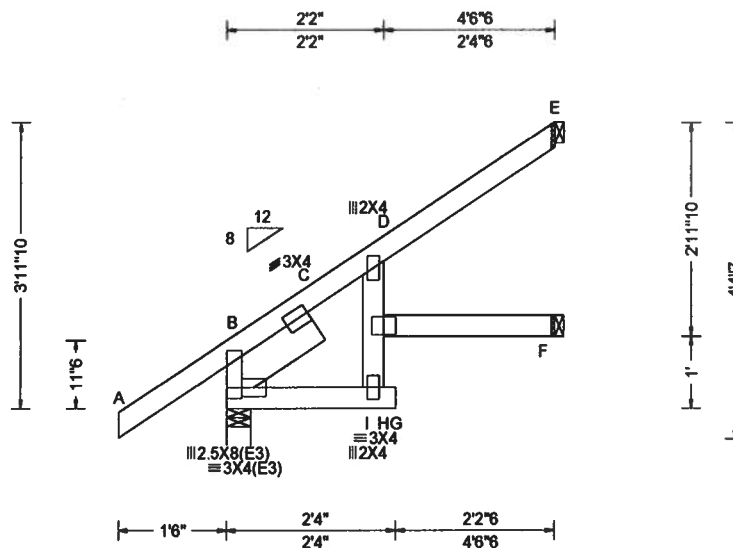
Trusses require extreme care in fabrication, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576245 FROM: CDM	JACK Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J06	Cust: R 215 JRef: 1WRX2150009 T50 DrwNo: 015.20.1621.40020 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.043 G 999 240 VERT(CL): 0.086 G 633 180 HORZ(LL): 0.037 D - - HORZ(TL): 0.075 D - - Creep Factor: 2.0 Max TC CSI: 0.366 Max BC CSI: 0.101 Max Web CSI: 0.112 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 311 /- /- /224 /18 /114 F 57 /- /- /42 /4 /- E 136 /- /- /92 /62 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

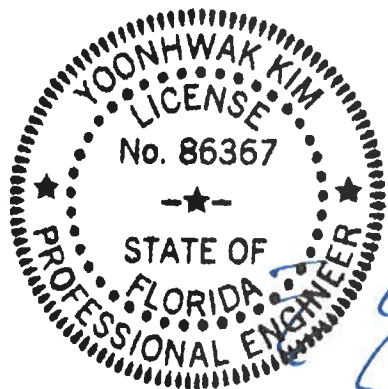
Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

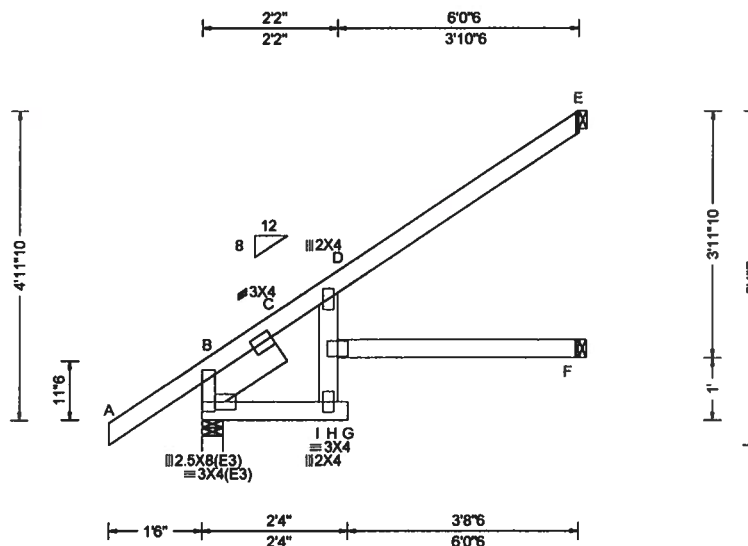
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576247 FROM: CDM	JACK Qty: 1	Ply: 1 Truss Label: J07	Job Number: 19-3845 /Hopper /IC CONST	Cust: R215 JRef: 1WRX2150009 T51 DrwNo: 015.20.1621.41403 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.126 G 573 240 VERT(CL): 0.256 G 283 180 HORZ(LL): 0.108 D - - HORZ(TL): 0.218 D - - Creep Factor: 2.0 Max TC CSI: 0.715 Max BC CSI: 0.247 Max Web CSI: 0.220 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 369 /- /- /262 /18 /143 F 89 /- /- /65 /3 /- E 184 /- /- /119 /83 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

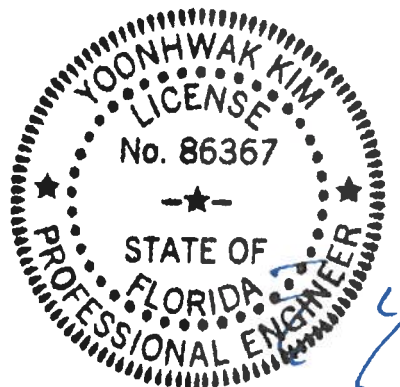
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-11-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

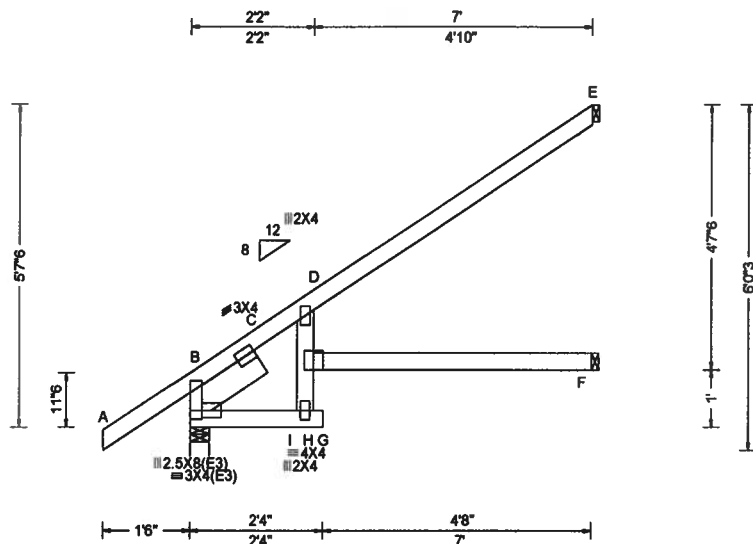
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
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For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCE: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576249 FROM: CDM	EJAC Qty: 2	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: J08	Cust: R 215 JRef: 1WRX2160009 T32 DrwNo: 015.20.1621.42733 / YK 01/15/2020
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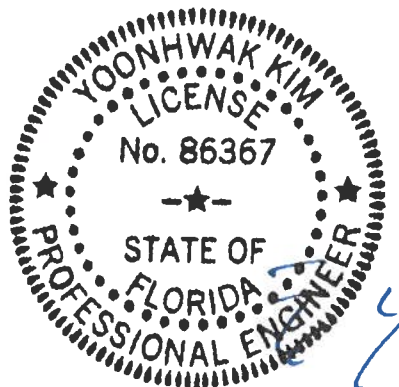


Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Def/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): 0.210 G 400 240 VERT(CL): 0.426 G 197 180 HORZ(LL): 0.178 D - - HORZ(TL): 0.362 D - - Creep Factor: 2.0 Max TC CSI: 0.991 Max BC CSI: 0.373 Max Web CSI: 0.307 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 408 /- /- /288 /18 /161 F 110 /- /- /80 /3 /- E 213 /- /- /137 /96 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Wind
Wind loads based on MWFRS with additional C&C member design.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5'-7-6.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

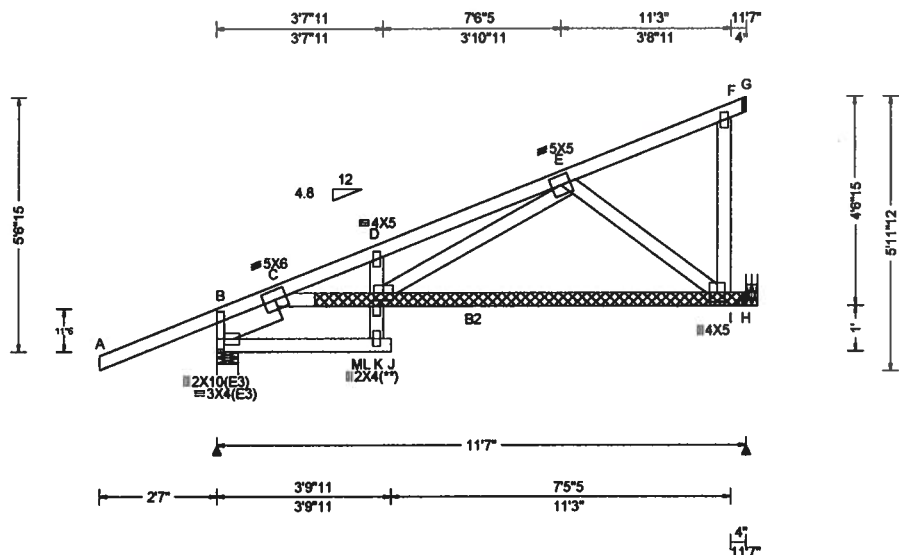
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576251 FROM: CDM	HIP_	Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J09	Cust: R 215 JRef: 1WRX2150009 T26 DrwNo: 015.20.1621.53070 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.132 J 999 240 VERT(CL): 0.263 J 529 180 HORZ(LL): 0.092 I - - HORZ(TL): 0.183 I - - Creep Factor: 2.0 Max TC CSI: 0.564 Max BC CSI: 0.464 Max Web CSI: 0.627 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity B 1093 /- /- /- /297 /- H 1193 /- /- /- /300 /- Wind reactions based on MWFRS B Brg Width = 5.7 Min Req = 1.5 H Brg Width = - Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 144 -510 D - E 616 -2709 C - D 610 -2659

Lumber
Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

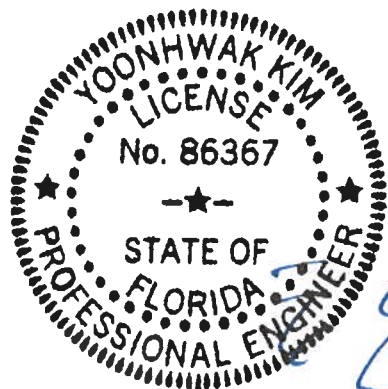
Tray Scab(s)
(2) 2x4x9-5-5 x SP M-31 scabs at right end. Attach one scab to each outer face of chord with: 0.131"x3", min. nails @ 8" oc, plus additional nail clusters at BRG.: (3), heel: (4), 1st panel point: (0).

Special Loads
---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 62 plf at -2.58 to 62 plf at 11.58
BC: From 4 plf at -2.58 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 11.58
TC: 18 lb Conc. Load at 1.65
TC: -1 lb Conc. Load at 2.55
TC: 218 lb Conc. Load at 4.98
TC: 136 lb Conc. Load at 7.55
TC: 220 lb Conc. Load at 8.31
TC: 184 lb Conc. Load at 10.05
BC: 34 lb Conc. Load at 1.65
BC: 29 lb Conc. Load at 2.55
BC: 80 lb Conc. Load at 4.98
BC: 57 lb Conc. Load at 7.55
BC: 109 lb Conc. Load at 8.31
BC: 89 lb Conc. Load at 10.05

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5-6-15.

Plating Notes
All plates are 2X4 except as noted.
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

Wind
Wind loads and reactions based on MWFRS.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

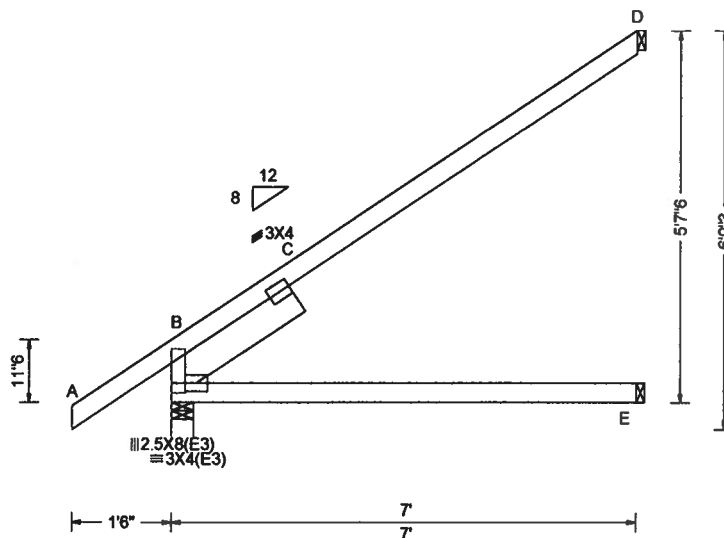
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 578160 FROM: CDM	EJAC Ply: 1 Qty: 5	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J10	Cust: R 215 JRef: 1WRX2150009 T33 DrwNo: 015.20.1621.56367 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.143 C - - HORZ(TL): 0.262 C - - Creep Factor: 2.0 Max TC CSI: 0.870 Max BC CSI: 0.568 Max Web CSI: 0.027 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 422 /- /- /288 /18 /161 E 153 /- /- /96 /1 /- D 203 /- /- /120 /98 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 2.272'

Loading

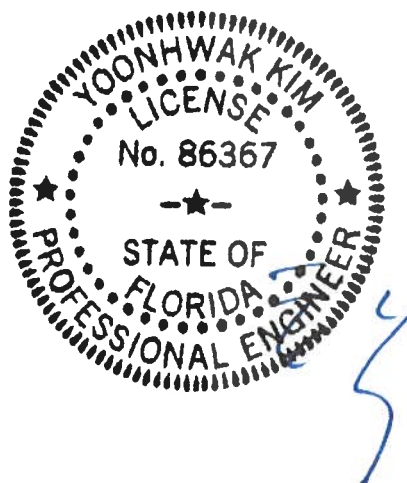
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5'-7-6.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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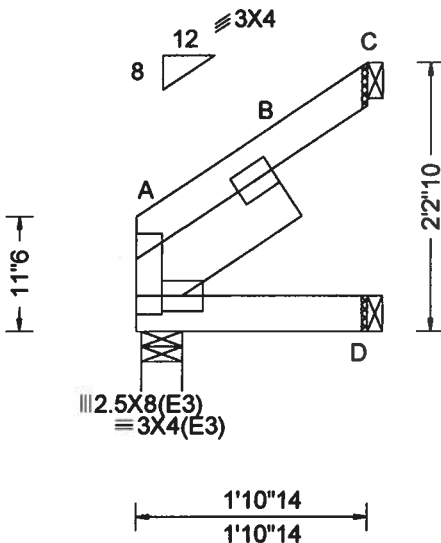
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 578179 FROM: CDM	JACK Qty: 1	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: J11	Cust: R 215 JRef: 1WRX2150009 T13 DrwNo: 015.20.1621.58607 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)						
				Gravity			Non-Gravity			
				Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	A	80	/-	/-	/49	/-	/35
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	D	37	/-	/-	/26	/-	/-
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	C	59	/-	/-	/37	/35	/-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 B - -	Wind reactions based on MWFRS						
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.004 B - -	A Brg Width = 4.0		Min Req = 1.5				
NCBCLL: 10.00	Mean Height: 15.00 ft		Creep Factor: 2.0	D Brg Width = 1.5		Min Req = -				
Soffit: 2.00	TCDL: 5.0 psf	Code / Misc Criteria	Max TC CSI: 0.068	C Brg Width = 1.5		Min Req = -				
Load Duration: 1.25	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max BC CSI: 0.034	Bearing A is a rigid surface.						
Spacing: 24.0 "	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max Web CSI: 0.002	Members not listed have forces less than 375#						
	C&C Dist a: 3.00 ft	Rep Fac: Yes								
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)								
	GCpl: 0.18	Plate Type(s):								
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08							

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

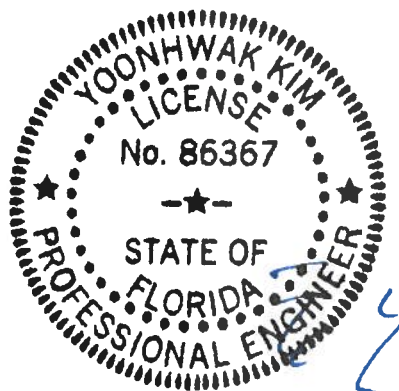
Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 2-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

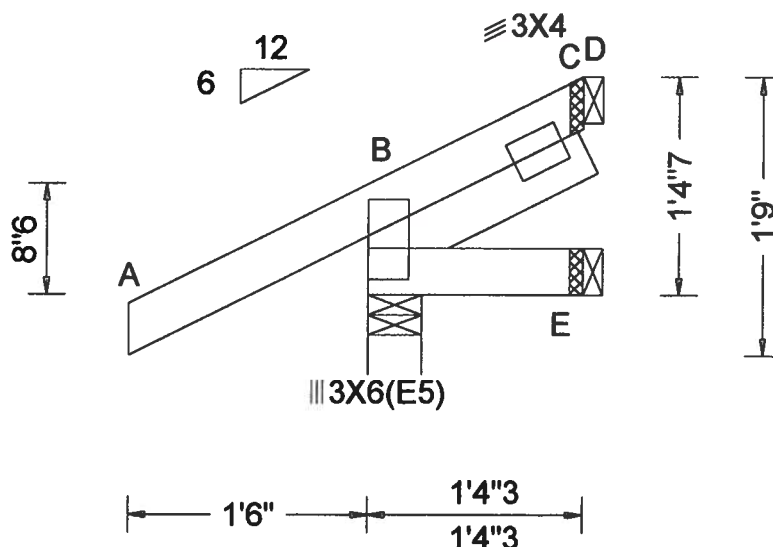
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.000 E - - HORZ(TL): 0.000 C - - Creep Factor: 2.0 Max TC CSI: 0.270 Max BC CSI: 0.015 Max Web CSI: 0.007 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 212 /- /- /162 /47 /40 E 25 /- /- /18 /- /- C - /-14 /- /20 /25 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

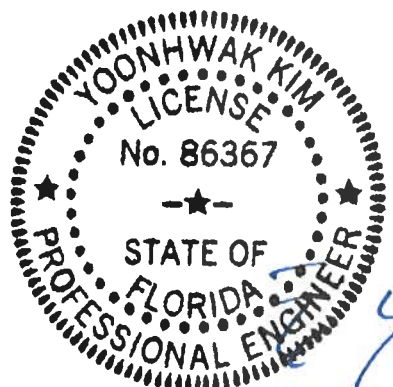
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #3; block length = 1.500'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 1-4-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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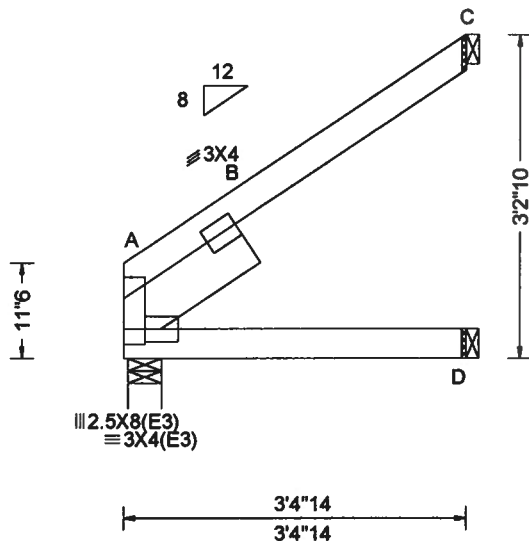
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576181 FROM: CDM	JACK Qty: 1	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: J13	Cust: R 215 JRef: 1WRX2150009 T14 DrwNo: 015.20.1622.01563 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.013 B - - HORZ(TL): 0.026 B - - Creep Factor: 2.0 Max TC CSI: 0.203 Max BC CSI: 0.122 Max Web CSI: 0.005 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL A 143 /- /- /91 /- /64 D 66 /- /- /47 /- /- C 104 /- /- /63 /54 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing A is a rigid surface. Members not listed have forces less than 375#

Lumber

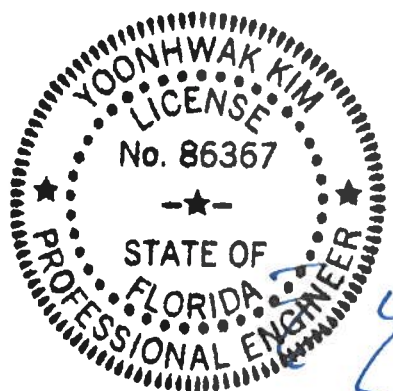
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x6 SP 2400F-2.0E; block length = 1.500'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 3-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

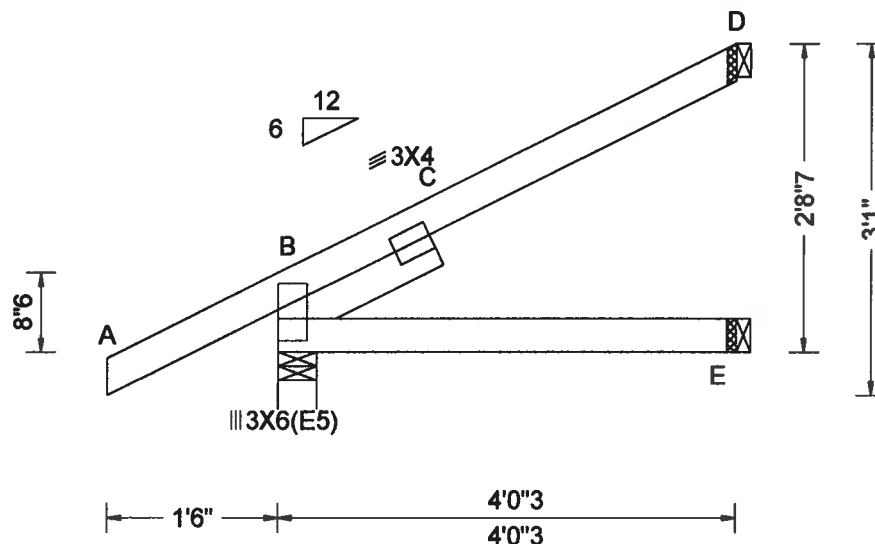
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Suite 305
Orlando FL, 32821

SEQN: 576162 FROM: CDM	JACK Qty: 2	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: J14	Cust: R 215 JRef: 1WRX2150009 T17 DrwNo: 015.20.1622.02663 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.008 C - - HORZ(TL): 0.017 C - - Creep Factor: 2.0 Max TC CSI: 0.314 Max BC CSI: 0.161 Max Web CSI: 0.187 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 284 /- /- /204 /40 /78 E 75 /- /- /51 /- /- D 103 /- /- /49 /43 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

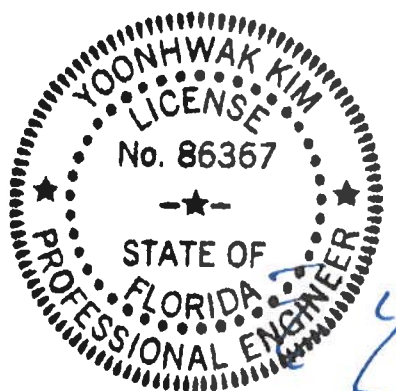
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #3; block length = 1.500'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-8-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

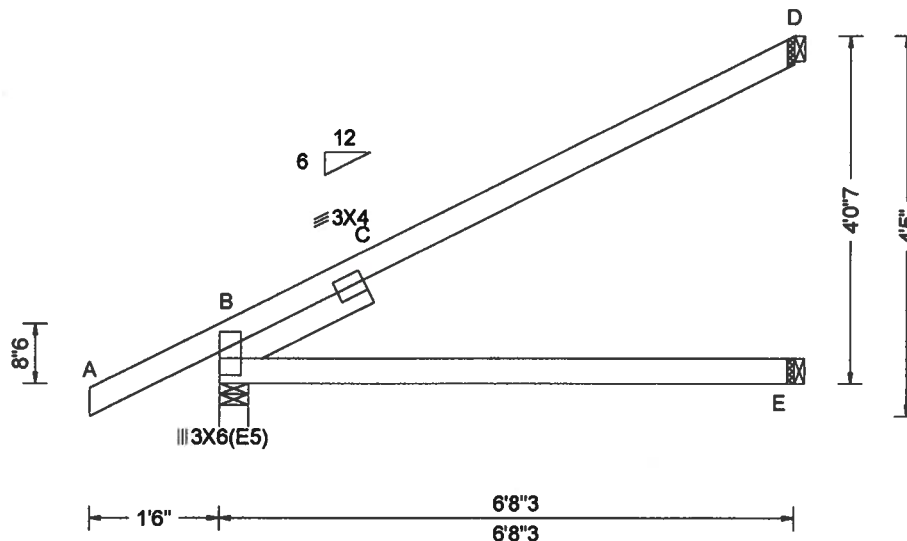
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCS (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCS sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 180A-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576163 FROM: CDM	JACK Ply: 1 Qty: 2	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J15	Cust: R 215 JRef: 1WRX2150009 T24 DrwNo: 015.20.1622.04007 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.061 C - - HORZ(TL): 0.122 C - - Creep Factor: 2.0 Max TC CSI: 0.729 Max BC CSI: 0.498 Max Web CSI: 0.365 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 387 /- /- /270 /48 /117 E 126 /- /- /88 /- /- D 186 /- /- /94 /73 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

Lumber

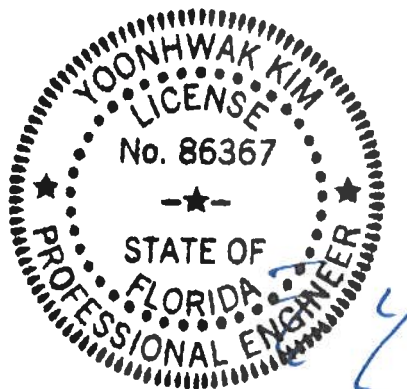
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #3; block length = 1.902'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-0-7.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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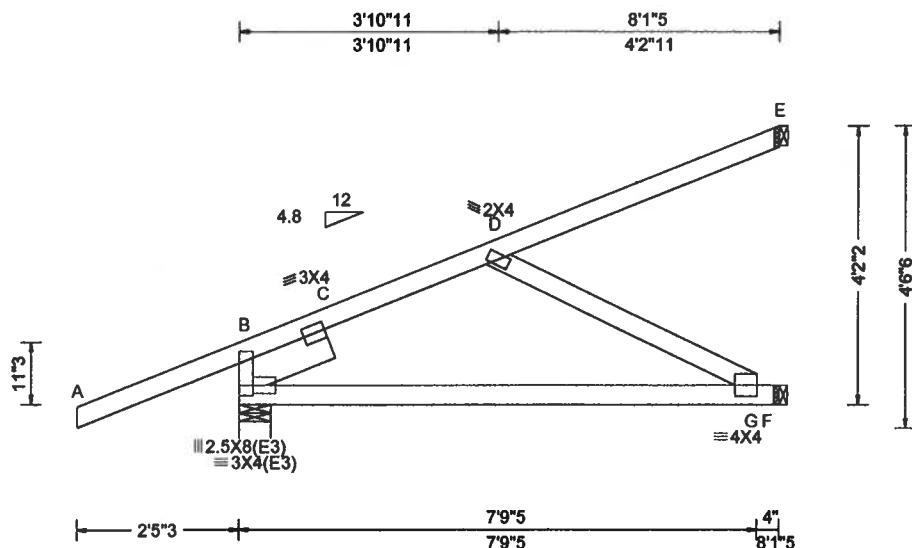
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576195 FROM: CDM	HIP_ Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J16	Cust: R 215 JRef: 1WRX2150009 T5 DrwNo: 015.20.1622.40447 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.038 G 999 240 VERT(CL): 0.074 G 999 180 HORZ(LL): 0.011 C - - HORZ(TL): 0.020 D - - Creep Factor: 2.0 Max TC CSI: 0.608 Max BC CSI: 0.535 Max Web CSI: 0.246 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 736 /- /- /- /213 /- F 536 /- /- /- /63 /- E 326 /- /- /- /136 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 5.7 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 62 plf at -2.51 to 62 plf at 8.11
BC: From 4 plf at -2.51 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 8.11
TC: -6 lb Conc. Load at 1.12
TC: 59 lb Conc. Load at 3.17
TC: 103 lb Conc. Load at 4.43, 5.67
TC: 188 lb Conc. Load at 7.76
BC: 25 lb Conc. Load at 1.12
BC: 37 lb Conc. Load at 3.17
BC: 75 lb Conc. Load at 4.43
BC: 66 lb Conc. Load at 5.67
BC: 126 lb Conc. Load at 7.76

Wind

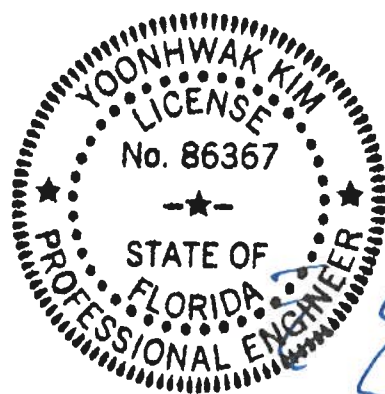
Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4'-2".

Provide (3) 16d common 0.162"x3.5", toe-nails at TC.
Provide hanger or special connection at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

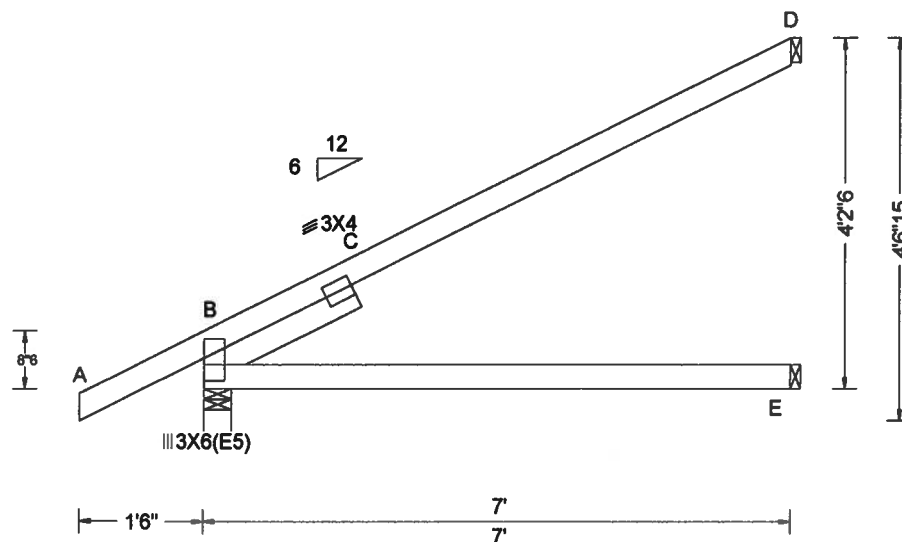
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576164 FROM: CDM	EJAC Qty: 5	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: J17	Cust: R 215 JRef: 1WRX2160009 T3 DrwNo: 015.20.1622.42683 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/def L/# VERT(LL): NA VERT(CL): NA HORZ(LL): 0.074 C - - HORZ(TL): 0.148 C - - Creep Factor: 2.0 Max TC CSI: 0.813 Max BC CSI: 0.551 Max Web CSI: 0.399 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 399 /- /- /278 /49 /121 E 133 /- /- /93 /- /- D 195 /- /- /99 /77 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

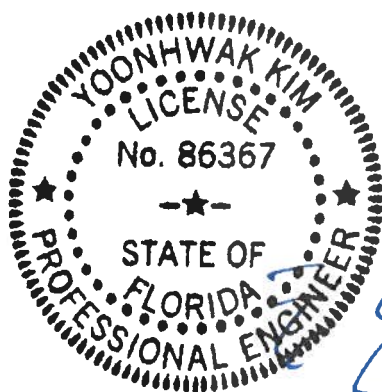
Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x4 SP #3; block length = 1.992'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4-2-6.



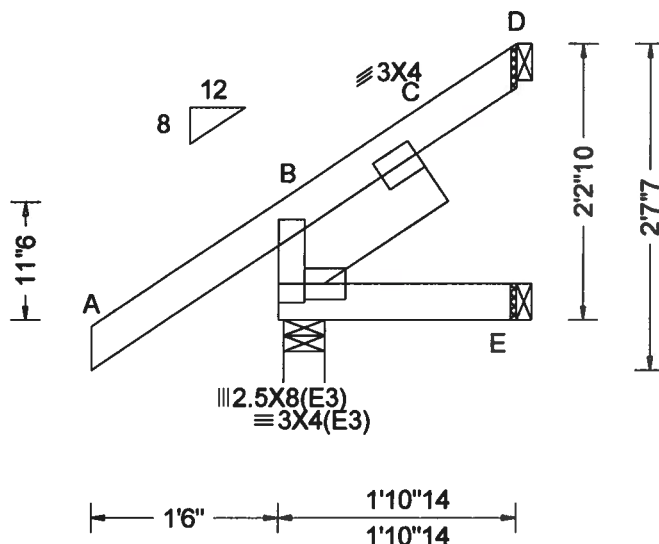
FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.002 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.184 Max BC CSI: 0.033 Max Web CSI: 0.004 VIEW Ver: 18.02.018.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 224 /- /- /169 /26 /64 E 36 /- /- /24 /- /- D 21 /- /- /15 /28 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

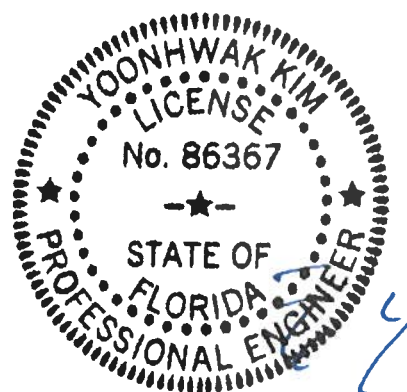
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 2-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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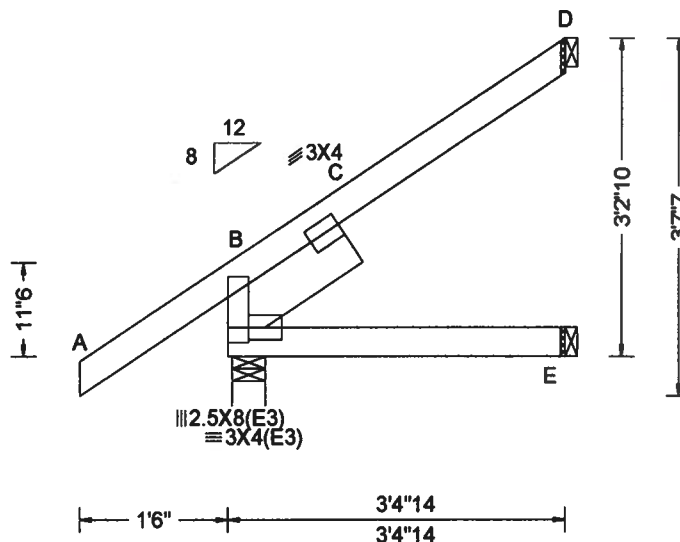
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576187 FROM: CDM	JACK Qty: 1	Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J19	Cust: R 215 JRef: 1WRX2150009 T8 DrwNo: 015.20.1622.45357 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg, Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT: 20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(CL): NA HORZ(LL): -0.009 C - - HORZ(TL): 0.014 C - - Creep Factor: 2.0 Max TC CSI: 0.188 Max BC CSI: 0.117 Max Web CSI: 0.008 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL B 269 /- /- /197 /20 /93 E 65 /- /- /45 /- /- D 84 /- /- /48 /50 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Lt Slider: 2x6 SP 2400F-2.0E; block length = 1.500'

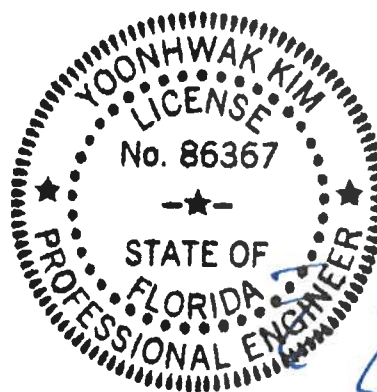
Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 3-2-10.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

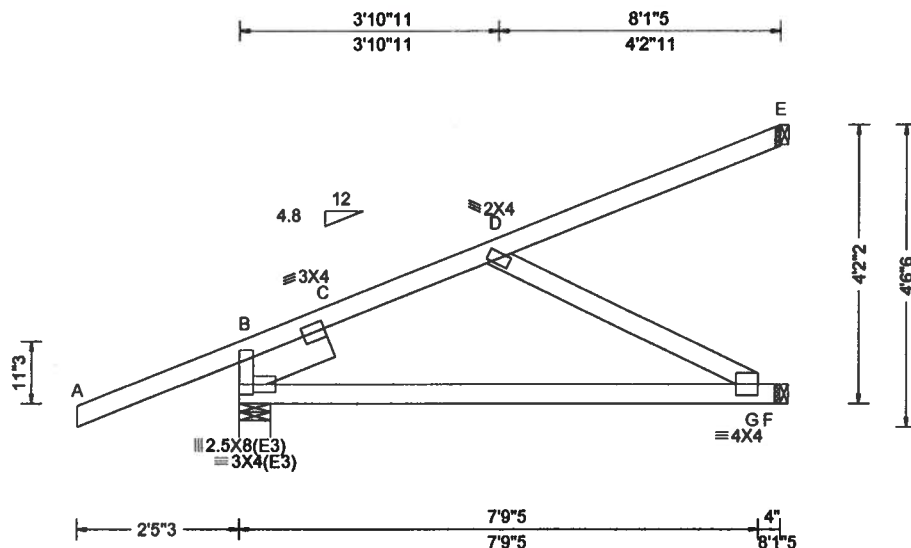
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ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576199 FROM: CDM	HIP_ Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: J20	Cust: R 215 JRef: 1WRX2150009 T11 DrwNo: 015.20.1622.51830 / YK 01/15/2020
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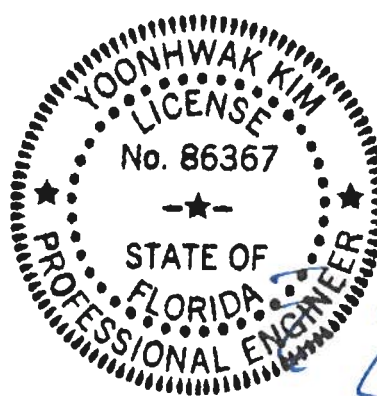
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.037 G 999 240 VERT(CL): 0.072 G 999 180 HORZ(LL): 0.011 C - - HORZ(TL): 0.019 D - - Creep Factor: 2.0 Max TC CSI: 0.576 Max BC CSI: 0.524 Max Web CSI: 0.223 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 706 /- /- /- /207 /- F 511 /- /- /- /58 /- E 320 /- /- /- /135 /- Wind reactions based on MWFRS B Brg Width = 5.7 Min Req = 1.5 F Brg Width = 1.5 Min Req = - E Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.500'

Special Loads
——(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 62 plf at -2.51 to 62 plf at 8.11
BC: From 4 plf at -2.51 to 4 plf at 0.00
BC: From 20 plf at 0.00 to 20 plf at 8.11
TC: -6 lb Conc. Load at 1.09
TC: 21 lb Conc. Load at 3.17
TC: 103 lb Conc. Load at 4.43
TC: 84 lb Conc. Load at 5.67
TC: 186 lb Conc. Load at 7.76
BC: 25 lb Conc. Load at 1.09
BC: 36 lb Conc. Load at 3.17
BC: 75 lb Conc. Load at 4.43
BC: 65 lb Conc. Load at 5.67
BC: 126 lb Conc. Load at 7.76

Wind
Wind loads and reactions based on MWFRS.

Additional Notes
Refer to General Notes for additional information
The overall height of this truss excluding overhang is 4'-2".
Provide (3) 16d common 0.162"x3.5", toe-nails at TC.
Provide hanger or special connection at BC.

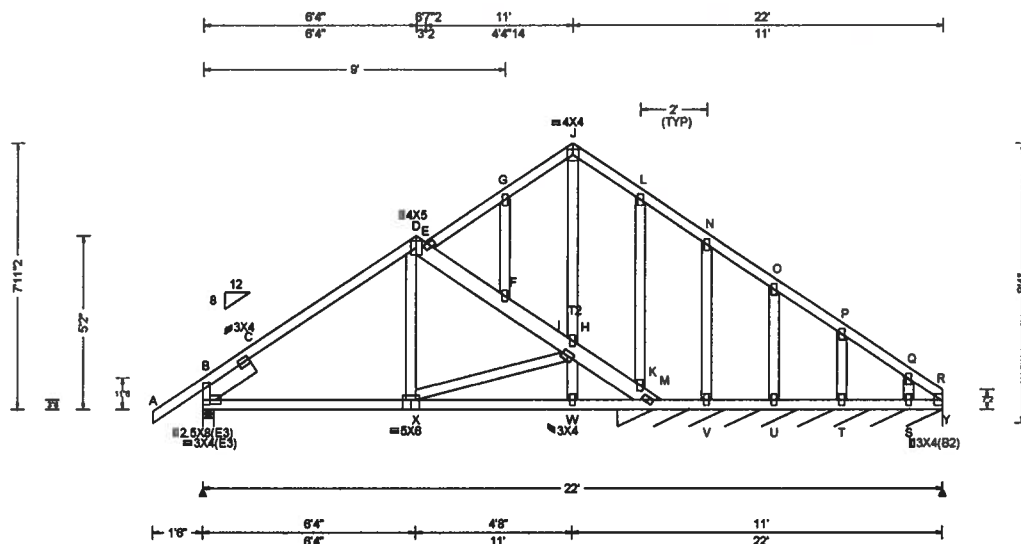


FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCE: www.sbceindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 578222 FROM: CDM	COMN Ply: 1 Qty: 1	Job Number: 19-3845 /Hopper /IC CONST Truss Label: K01	Cust R 215 JRef: 1WRX2150009 T25 DrwNo: 015.20.1623.43493 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): -0.026 C 999 240 VERT(CL): 0.057 C 999 180 HORZ(LL): -0.024 C - - HORZ(TL): 0.048 C - - Creep Factor: 2.0 Max TC CSI: 0.373 Max BC CSI: 0.389 Max Web CSI: 0.118 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 700 /- /- /460 /119 /237 Y* 130 /- /- /78 /20 /- Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 Y Brg Width = 115 Min Req = - Bearings B & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 222 -746 F - H 186 -507 C - D 199 -644 H - I 102 -521 D - E 134 -395 I - K 31 -632 E - F 138 -431 K - M 78 -717 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - X 475 -139 W - M 585 -80 X - W 584 -80

Lumber
Top chord: 2x4 SP #2; T2 2x6 SP 2400f-2.0E;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 1.821'

Plating Notes

All plates are 2X4 except as noted.

Wind

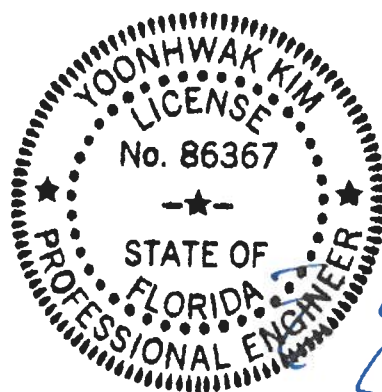
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 7'-11-2."

Laterally brace top chord below filler and bottom chord above filler at 24" o.c., including a lateral brace at chord ends (If no rigid diaphragm exists at that point).



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

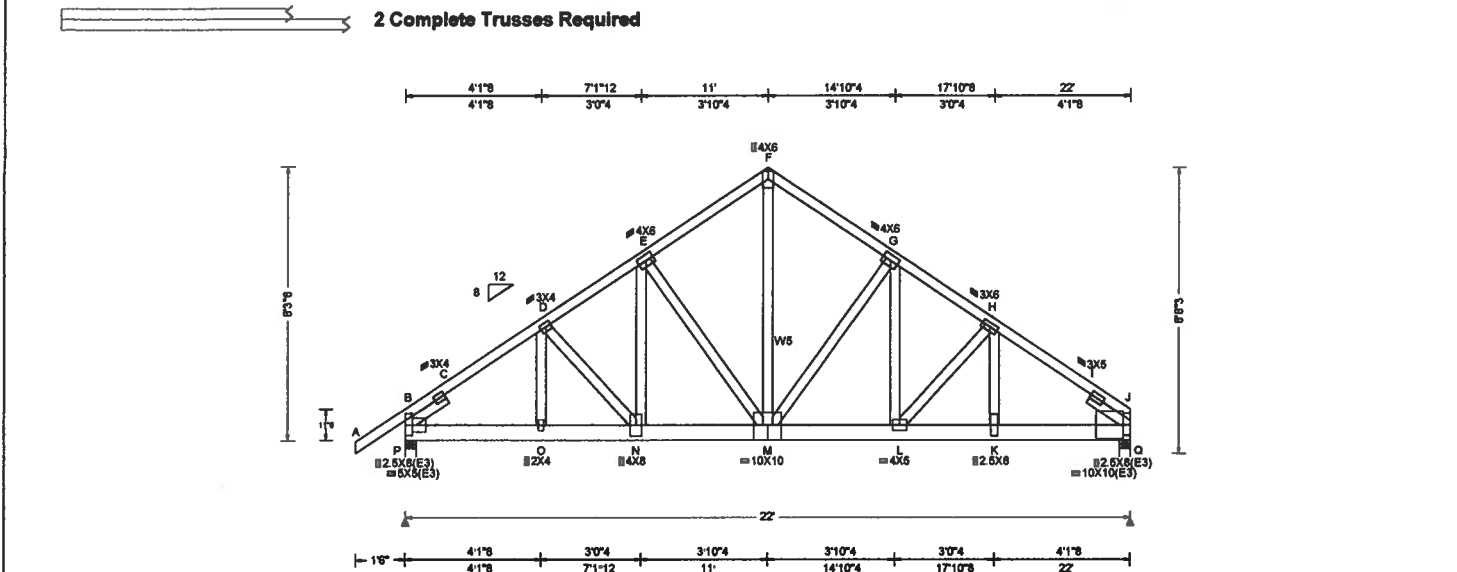
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Suite 305
Orlando FL, 32821



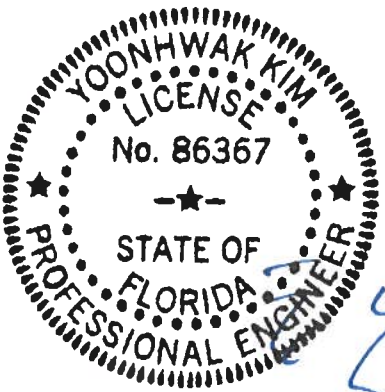
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.091 L 999 240 VERT(CL): 0.182 L 999 180 HORZ(LL): 0.029 E - - HORZ(TL): 0.058 E - - Creep Factor: 2.0 Max TC CSI: 0.286 Max BC CSI: 0.385 Max Web CSI: 0.693 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL P 5001 /- /- /- /993 /- Q 6927 /- /- /- /845 /- Wind reactions based on MWFRS P Brg Width = 4.0 Min Req = 2.1 Q Brg Width = 4.0 Min Req = 2.9 Bearings P & Q are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 714 -3626 F - G 518 -2873 C - D 703 -3595 G - H 573 -3778 D - E 736 -3736 H - I 586 -4446 E - F 513 -2859 I - J 596 -4477

Lumber	Blocking
Top chord: 2x4 SP M-31; Bot chord: 2x6 SP 2400f-2.0E; Webs: 2x4 SP #3; W5 2x4 SP #2; Lt Slider: 2x4 SP #3; block length = 1.500' Rt Slider: 2x4 SP #3; block length = 1.500'	Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 1 located at 0.0' bearing 2 located at 21.7'

Nailnote	Additional Notes
Nail Schedule:0.131"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @ 3.25" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.	Refer to General Notes for additional information The overall height of this truss excluding overhang is 8-3-6.

Special Loads	Maximum Bot Chord Forces Per Ply (lbs)	Maximum Web Forces Per Ply (lbs)
(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 64 plf at -1.50 to 64 plf at 7.13 TC: From 32 plf at 7.13 to 32 plf at 13.06 TC: From 64 plf at 13.06 to 64 plf at 22.00 BC: From 5 plf at -1.50 to 5 plf at 0.00 BC: From 20 plf at 0.00 to 20 plf at 7.13 BC: From 10 plf at 7.13 to 10 plf at 22.00 BC: 2741 lb Conc. Load at 7.13 BC: 944 lb Conc. Load at 9.06,11.06,13.06,15.06 17.06 BC: 1055 lb Conc. Load at 17.40 BC: 899 lb Conc. Load at 19.40,21.40	Chords Tens.Comp. Chords Tens. Comp. B - O 2884 -562 M - L 3082 -467 O - N 2880 -561 L - K 3549 -467 N - M 3044 -592 K - J 3604 -469	Webs Tens.Comp. Webs Tens. Comp. N - E 1348 -330 G - L 1390 -55 E - M 294 -1162 L - H 0 -641 F - M 3068 -531 H - K 943 0 M - G 77 -1227

Wind
Wind loads and reactions based on MWFRS.



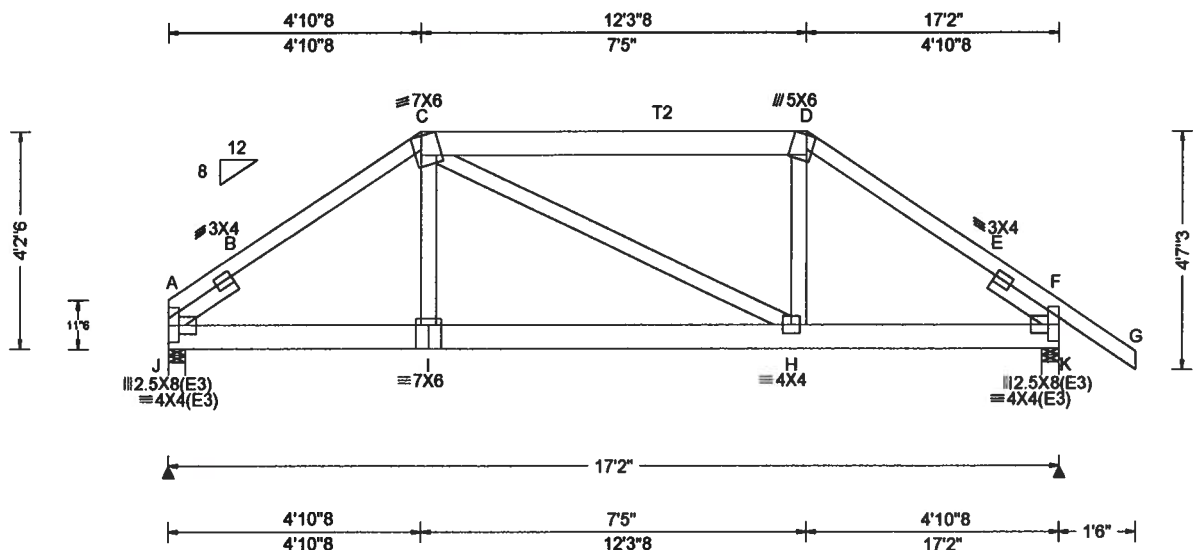
FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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 For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576202 FROM: CDM	HIPS Qty: 1	Ply: 1 Job Number: 19-3845 /Hopper /IC CONST Truss Label: L01	Cust: R 215 JRef: 1WRX2150009 T9 DrwNo: 015.20.1623.26550 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpl: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Varies by Ld Case FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.052 I 999 240 VERT(CL): 0.105 I 999 180 HORZ(LL): 0.031 E - - HORZ(TL): 0.063 E - - Creep Factor: 2.0 Max TC CSI: 0.595 Max BC CSI: 0.335 Max Web CSI: 0.362 VIEW Ver: 18.02.01B.0321.08	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL J 2234 /- /- /- /487 /- K 2333 /- /- /- /526 /- Wind reactions based on MWFRS J Brg Width = 4.0 Min Req = 1.9 K Brg Width = 4.0 Min Req = 1.9 Bearings J & K are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 757 - 3385 D - E 731 - 3300 B - C 737 - 3333 E - F 750 - 3351 C - D 581 - 2716

Lumber

Top chord: 2x4 SP #2; T2 2x6 SP 2400F-2.0E;
Bot chord: 2x6 SP 2400F-2.0E;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.541'
Rt Slider: 2x4 SP #3; block length = 1.541'

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 64 plf at 0.00 to 64 plf at 4.88
TC: From 32 plf at 4.88 to 32 plf at 12.29
TC: From 64 plf at 12.29 to 64 plf at 18.67
BC: From 20 plf at 0.00 to 20 plf at 4.91
BC: From 10 plf at 4.91 to 10 plf at 12.26
BC: From 20 plf at 12.26 to 20 plf at 17.17
BC: From 5 plf at 17.17 to 5 plf at 18.67
TC: 521 lb Conc. Load at 4.91
TC: 195 lb Conc. Load at 6.98, 8.58, 10.19
TC: 516 lb Conc. Load at 12.26
BC: 669 lb Conc. Load at 4.91
BC: 133 lb Conc. Load at 6.98, 8.58, 10.19
BC: 644 lb Conc. Load at 12.26

Purlins

In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 4-2-6.

Blocking

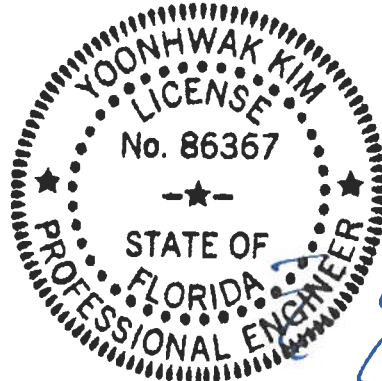
Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.0'
bearing 2 located at 16.8'

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - I	2692 - 591	H - F	2659 - 583
I - H	2718 - 590		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - I	806 0	H - D	807 0



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01/15/2020

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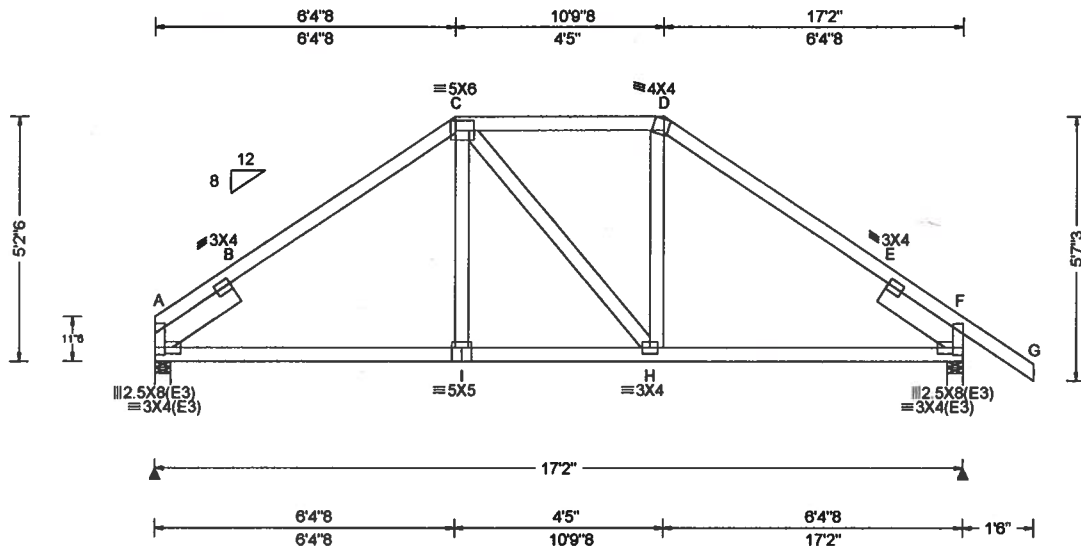
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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576205 FROM: CDM	HIPS Ply: 1 Qty: 1	Job Number: 19-3845 Hopper /IC CONST Truss Label: L02	Cust: R 215 JRef: 1WRX2150009 T16 DrwNo: 015.20.1623.27890 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.046 B 999 240 VERT(CL): 0.095 B 999 180 HORZ(LL): 0.038 B - - HORZ(TL): 0.079 B - - Creep Factor: 2.0 Max TC CSI: 0.410 Max BC CSI: 0.425 Max Web CSI: 0.083 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh Non-Gravity / Rw / U / RL A 717 /- /- /418 /116 /152 F 829 /- /- /510 /144 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 1.5 F Brg Width = 4.0 Min Req = 1.5 Bearings A & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 253 -954 D - E 231 -824 B - C 238 -829 E - F 275 -930 C - D 248 -624 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - I 629 -77 H - F 619 -78 I - H 630 -77

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400f-2.0E; block length = 2.084'
Rt Slider: 2x6 SP 2400f-2.0E; block length = 2.084'

Purlins

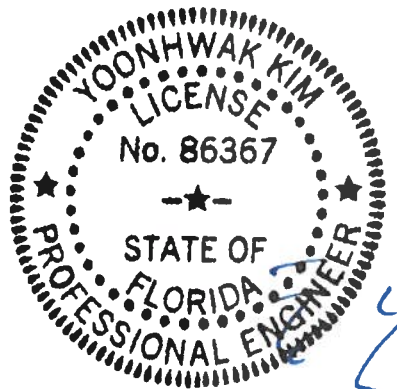
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 5-2-6.



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

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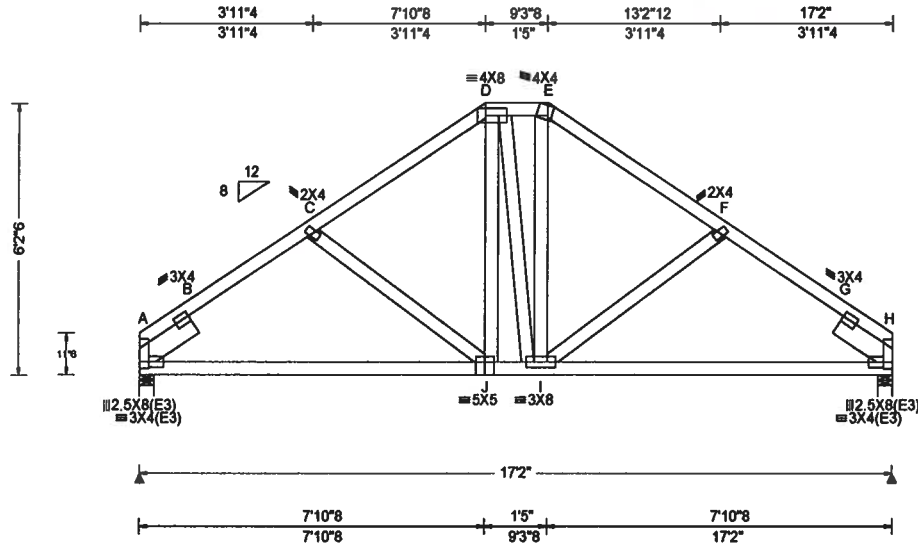
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For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCEA: www.sbcindustry.com; ICC: www.iccsafe.org

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AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 576208 FROM: CDM	HIPS Qty: 1	Job Number: 19-3845 Hopper /IC CONST Truss Label: L03	Cust: R 215 JRef: 1WRX2150009 T12 DrwNo: 015.20.1623.29483 / YK 01/15/2020
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCPI: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.019 J 999 240 VERT(CL): 0.041 J 999 180 HORZ(LL): 0.011 I - - HORZ(TL): 0.022 I - - Creep Factor: 2.0 Max TC CSI: 0.181 Max BC CSI: 0.625 Max Web CSI: 0.094 VIEW Ver: 18.02.01B.0321.08	Gravity Loc R+ / R- / Rh / Rw / U / RL A 721 -/- /- /420 /114 /145 H 721 -/- /- /420 /114 /- Wind reactions based on MWFRS A Brg Width = 4.0 Min Req = 1.5 H Brg Width = 4.0 Min Req = 1.5 Bearings A & H are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 224 -990 E - F 225 -728 B - C 235 -884 F - G 236 -885 C - D 227 -730 G - H 224 -992 D - E 218 -549 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - J 685 -137 I - H 685 -138 J - I 546 -47

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #3;
Lt Slider: 2x6 SP 2400F-2.0E; block length = 1.500'
Rt Slider: 2x6 SP 2400F-2.0E; block length = 1.500'

Purlins

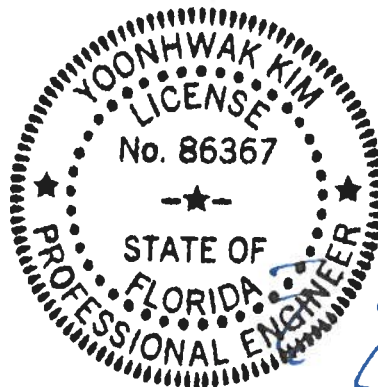
In lieu of structural panels use purlins to brace all flat TC @ 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6'-2-6".



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCE) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCE: www.sbceindustry.com; ICC: www.iccsafe.org

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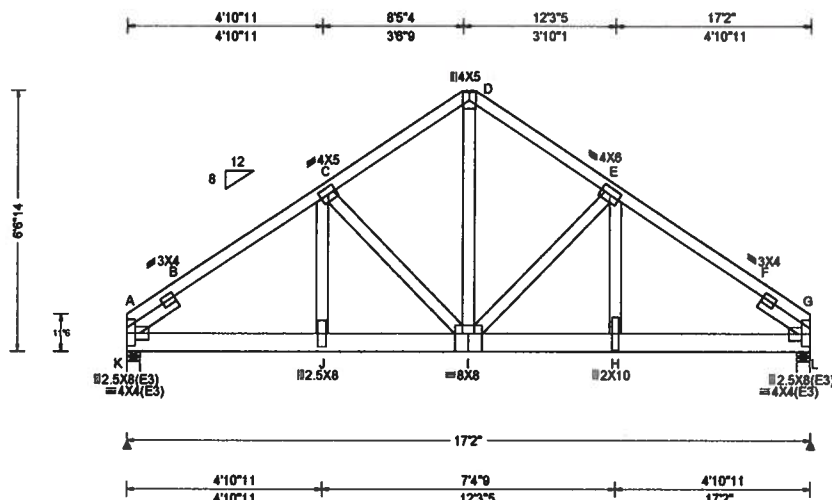
SEQN: 576328
FROM: CDM

HIPS
Qty: 1

Job Number: 19-3845
/Hopper /IC CONST
Truss Label: L04

Cust: R 215 JRef: 1WRX2150009 T6
DrwNo: 015.20.1623.37563
/ YK 01/15/2020

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Fac: No
FT/RT: 20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): 0.066 I 999 240
VERT(CL): 0.131 I 999 180
HORZ(LL): 0.019 C - -
HORZ(TL): 0.039 C - -
Creep Factor: 2.0
Max TC CSI: 0.391
Max BC CSI: 0.464
Max Web CSI: 0.917

VIEW Ver: 18.02.01B.0321.08

Maximum Reactions (lbs)

Loc	Gravity			Non-Gravity		
	R+	/R-	/Rh	/Rw	/U	/RL
K	5488	-	-	-	1014	-
L	4885	-	-	-	924	-

Wind reactions based on MWFRS
K Brg Width = 4.0 Min Req = 2.3
L Brg Width = 4.0 Min Req = 2.0
Bearings K & L are a rigid surface.
Members not listed have forces less than 375#
Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
	Tens.	Comp.		Tens.	Comp.
A - B	607	-3209	D - E	430	-2272
B - C	597	-3182	E - F	618	-3256
C - D	435	-2286	F - G	628	-3284

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP 2400f-2.0E;
Webs: 2x4 SP #3;
Lt Slider: 2x4 SP #3; block length = 1.500'
Rt Slider: 2x4 SP #3; block length = 1.500'

Nailnote

Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 6.00" o.c. (Each Row)
Webs: 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

---(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 64 plf at 0.00 to 64 plf at 6.77
TC: From 32 plf at 6.77 to 32 plf at 12.77
TC: From 64 plf at 12.77 to 64 plf at 17.17
BC: From 10 plf at 0.00 to 10 plf at 17.17
BC: 1108 lb Conc. Load at 0.77, 2.77, 4.77
BC: 1083 lb Conc. Load at 6.77, 10.77
BC: 1090 lb Conc. Load at 8.77
BC: 909 lb Conc. Load at 12.77
BC: 903 lb Conc. Load at 13.10, 15.10

Wind

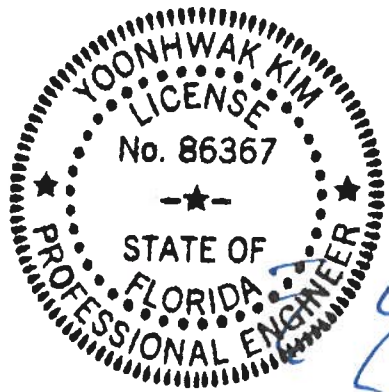
Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information
The overall height of this truss excluding overhang is 6-6-14.

Blocking

Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.0'
bearing 2 located at 16.8'



FL REG# 278, Yoonhwak Kim, FL PE #86367
01/15/2020

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.	
	Tens.	Comp.		Tens.	Comp.
A - J	2599	-483	I - H	2600	-490
J - I	2545	-475	H - G	2641	-497

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.	
	Tens.	Comp.		Tens.	Comp.
J - C	1171	-185	I - E	199	-1038
C - I	177	-958	E - H	1312	-227
D - I	2407	-443			

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
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For more information see this job's general notes page and these web sites: ALPINE: www.alpinetw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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Orlando FL, 32821

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

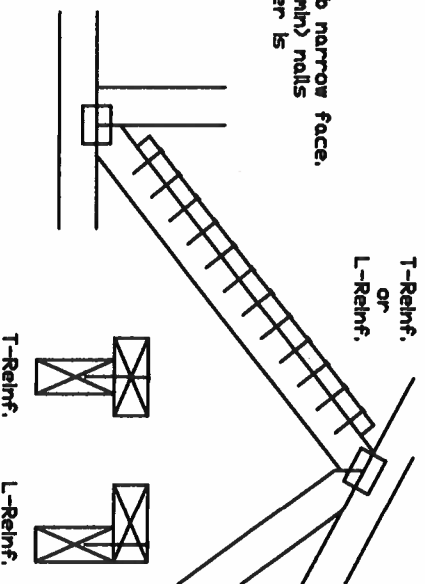
Use scabs instead of L- or T-reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(6)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(6)

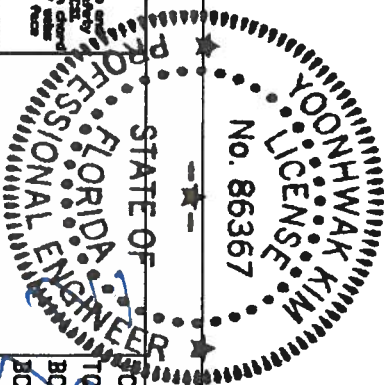
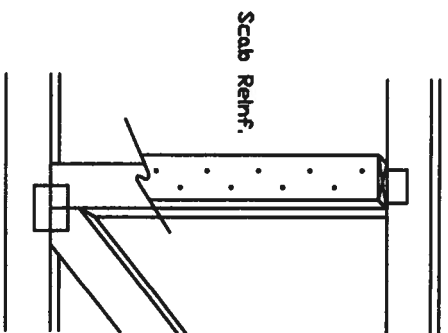
T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(30) Center scab on wide face of web. Apply (1) scab to each face of web.

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0") nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0" min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

[illegible]

REF	CLR Subst.
DATE	01/02/19
DRWG	BRCB.SUB0119

Dr 120	mph	Wind Speed, 15'	Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Dr 120	mph	Wind Speed, 15'	Mean Height, Enclosed, Exposure D, Kzt = 1.00
Dr 100	mph	Wind Speed, 15'	Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Bracing Group Species and Grades			
Group A1		Group B1	
Service Tie-Flt	Hot-Flt	Service Tie-Flt	Hot-Flt
#1 / #2	#2	#1 / #2	#2
Standard	Standard	Standard	Standard
#3	#3	#3	#3
Stud	Stud	Stud	Stud
Standard	Standard	Standard	Standard
Douglas Fir-Larch	Southern Pine	Douglas Fir-Larch	Southern Pine
#1	#1	#1	#1
#2	#2	#2	#2
Douglas Fir-Larch	Southern Pine	Douglas Fir-Larch	Southern Pine
#1	#1	#1	#1
#2	#2	#2	#2

For 1x4 Jo. Pine use only Industrial SS or Industrial SS
 Industrial SS
 values may be used with these grades.

Provides uplift connections for SS plf over continuous bearing CS pnf TC load. Gable end supports load from 4" o' overhang, or 12" plywood overhang.

Attach 7" braces with 10d 0.129x3.0" nails.

¹/₂ inch must be a minimum of 80% of web number length.

Refer to the Building Designer for conditions not addressed by this detail.

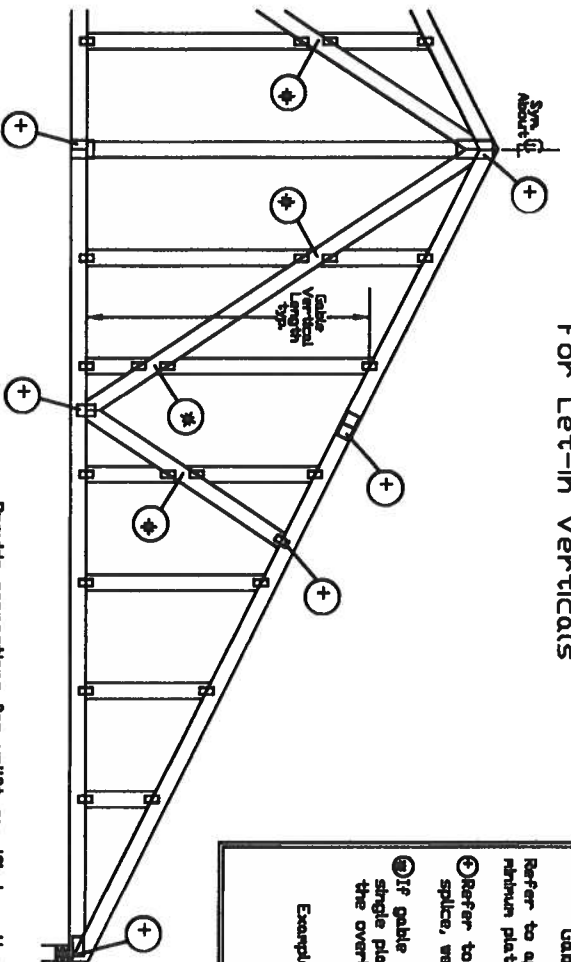


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[illegible]

REF	ASCE7-10-GABI4015
DATE	10/01/14
DRWG	A14015ENC101014
MAX. SPACING	24.0"
MAX. TOT. LD.	60 PSF

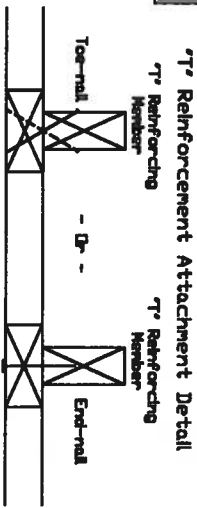
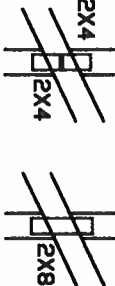
Gable Detail For Let-in Verticals



Gable Truss Plate Sizes

- Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.
- Refer to Engineered truss design for peak, splices, web, and heel plates.
- If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



To convert from 1" to 7" reinforcing members, multiply 7" increase by length based on appropriate Alpine gable detail.

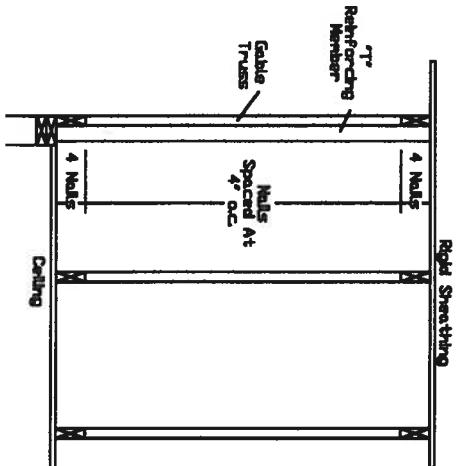
Maximum allowable 7" reinforced gable vertical length is 14' from top to bottom chord. 7" reinforcing member material must match size, specie, and grade of the 1" reinforcing member.

Web Length Increase w/ 7" Brace

7" Reinf. Member Size	7" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24' o.c. Sp #3
7" Reinforcing Member Size = 2x4
7" Brace Increase (From Above) = 30% = 1.30
7" Brace Length = 8' 7"
Maximum 7" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



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FLORIDA
PROFESSIONAL ENGINEER
KIM

MAX. TOT. LD. 60 PSF	REF	LET-IN VERT
DUR. FAC. ANY	DATE	01/02/2018
MAX. SPACING 24.0'	DRWG	GBLETD0118