DATE 03/25/2019

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000037899

APPLICANT MARK MADERO PHONE 607.434.0698

ADDRESS 332 NW KENSINGTON LN LAKE CITY FL 32024

OWNER SHARON BALDAUF-MADERO & MARK MADERO PHONE 607.434.0698

ADDRESS 449 SW MADISON CT LAKE CITY FL 32024

CONTRACTOR SHARON B-MADERO & MARK MADERO PHONE 607.434.0698

LOCATION OF PROPERTY 90-W TO C-252-B,TL TO DEPUTY J DAVIS,TR TO C-252,TL TO MADISON,TL & IT'S 3/10 OF A MILE ON L.(AFTER ACADEMY)

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 189000.00

HEATED FLOOR AREA 2532.00 TOTAL AREA 3780.00 HEIGHT ____ STORIES ____

FOUNDATION CONC WALLS FRAMED ROOF PITCH 7'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT ____

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. ____

PARCEL ID 07-4S-16-02791-106 SUBDIVISION WESTWIND ESTATES

LOT 6 BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 5.01

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		OWNER	✓ Mark Madero

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident	Time/STUP No.
EXISTING	19-0170	LH	TC	N	

COMMENTS: ONE FOOT ABOVE ROAD.

Check # or Cash 1013

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power ____ date/app. by | Foundation ____ date/app. by | Monolithic ____ date/app. by

Under slab rough-in plumbing ____ date/app. by | Slab ____ date/app. by | Sheathing/Nailing ____ date/app. by

Framing ____ date/app. by | Insulation ____ date/app. by

Rough-in plumbing above slab and below wood floor ____ date/app. by | Electrical rough-in ____ date/app. by

Heat & Air Duct ____ date/app. by | Peri. beam (Lintel) ____ date/app. by | Pool ____ date/app. by

Permanent power ____ date/app. by | C.O. Final ____ date/app. by | Culvert ____ date/app. by

Pump pole ____ date/app. by | Utility Pole ____ date/app. by | M/H tie downs, blocking, electricity and plumbing ____ date/app. by

Reconnection ____ date/app. by | RV ____ date/app. by | Re-roof ____ date/app. by

BUILDING PERMIT FEE $ 945.00 CERTIFICATION FEE $ 18.90 SURCHARGE FEE $ 18.90

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $ ____

PLAN REVIEW FEE $ 236.00 ~~DP & FLOOD ZONE~~ FEE $ 25.00 CULVERT FEE $ ____ **TOTAL FEE** 1293.80

INSPECTORS OFFICE ____ CLERKS OFFICE ____

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

NOTICE: ALL OTHER APPLICABLE STATE OR FEDERAL PERMITS SHALL BE OBTAINED BEFORE COMMENCEMENT OF THIS PERMITTED DEVELOPMENT.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

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 THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County New Building Permit Application

For Office Use Only Application # 1903-17 Date Received 3/1 By JD Permit # 37899

Zoning Official JH Date 3-19-19 Flood Zone X Land Use AG Zoning A-3

FEMA Map # N/A Elevation N/A MFE 1' Above River N/A Plans Examiner J.C. Date 3-19-19

Comments One foot Above Road Front 30' sides 25' Rear 25' out of A zone per site plan

☐ 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. 19-0170 OR City Water ☐ Fax

Applicant (Who will sign/pickup the permit) Mark Madero Phone 607-434-0698

Address 332 NW Kensington Ln, LAKE CITY, FL 32055

Owners Name Sharon Baldauf-Madero & Mark Madero Phone 607-434-0698

911 Address 449 SW Madison Ct, Lake City, FL 32024

Contractors Name N/A (Owner / Builder) Phone

Address

Contractor Email mmadero@frontiernet.net ***Include to get updates on this job.

Fee Simple Owner Name & Address Sharon Baldauf-Madero & Mark Madero; 332 NW Kensington Ln, Lake City, FL 32055

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Bruce Schafer of Schafer Engineering 14705 Main St, Alachua, FL 32615

Mortgage Lenders Name & Address N/A

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

Property ID Number 07-4S-16-02791-106 Estimated Construction Cost $225,000

Subdivision Name Westwind Estates Lot 6 Block Unit Phase

Driving Directions from a Major Road From West US Highway 90 take SW Pinemount Rd south, Turn left on onto SW Madison Ct (just after Lake City Cristian Academy), Proceed to #449 which is on the left (look for a wooden fence with a gate)

Construction of One Story Residential Home Commercial OR X Residential

Proposed Use/Occupancy Single Family Residential (000100) Number of Existing Dwellings on Property 0

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

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

Actual Distance of Structure from Property Lines - Front 350 Side 110 Side 150 Rear 200

Number of Stories 1 Heated Floor Area 2532 Total Floor Area 3780 Acreage 5.01

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) None

Plans meet current zoning regulations Sent email 3.20.19

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.

Sharon & Mark Madero — Sharon Baldaut Madero / Mark Madero

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 _____
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this ____ day of _____ 20___.

Personally known ☐ **or Produced Identification** _____

SEAL:

State of Florida Notary Signature (For the Contractor)

Permit # 1903-17

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

07-4S-16-02791-106

Clerk's Office Stamp

Inst: 201912007324 Date: 03/27/2019 Time: 2:27PM
Page 1 of 1 B: 1381 P: 750, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description):* LOT 6 WESTWIND ESTATES. 979-1744, WD 1046-1231, WD 1249-1913, QC 1306-1718, WD 1308-2004, QC 1327-986, WD 1336-105,
   a) Street *(job)* Address: 449 SW Madison Ct. Lake City, FL, 32024
2. General description of improvements: Single story Single Family Residence
3. Owner Information or Lessee information if the Lessee contracted for the improvements:
   a) Name and address: Mark & Sharon Madero, 332 NW Kensington Ln, Lake City, FL, 32055
   b) Name and address of fee simple titleholder (if other than owner) –Same–
   c) Interest in property Owner
4. Contractor Information
   a) Name and address: Owner / Builder (see owner Information)
   b) Telephone No.: 607-434-0698
5. Surety Information (if applicable, a copy of the payment bond is attached):
   a) Name and address: N/A
   b) Amount of Bond:
   c) Telephone No.:
6. Lender
   a) Name and address: N/A
   b) Phone No.
7. Person 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:
   a) Name and address: Mark Duran, 1604 Sis Welcome Rd. Lake City, FL 32025
   b) Telephone No.: 386 623 4373
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name: Mark Duran OF 1604 Sister Welcome Rd, Lake City, FL 32025
   b) Telephone No.: 386-623-4373
9. Expiration date of Notice of Commencement **(the expiration date will be 1 year from the date of recording unless a different date is specified):**

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. _____
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Mark S Madero
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 26 day of February, 2019, by:

Mark Madero (Name of Person) as owner (Type of Authority) for Columbia County Building Department. (name of party on behalf of whom instrument was executed)

Personally Known ____ OR Produced Identification ✓ Type Florida Driver license

Notary Signature _____ Notary Stamp or Seal:

DONALD ROBERT SUHL
Notary Public - State of Florida
Commission # GG 222464
My Comm. Expires May 28, 2022
Bonded through National Notary Assn.

Sales Price $ 40,000.00
Doc. $ 280.00

This Instrument Prepared by & return to:
Name: ***Trish Lang, an employee of NORTH CENTRAL FLORIDA TITLE, LLC***
Address: ***343 NW COLE TER LAKE CITY, FL. 32055***
File No. 17Y-03028TL

Parcel I.D. #: ***R02791-106***

SPACE ABOVE THIS LINE FOR PROCESSING DATA

Inst: 201712008188 Date: 05/04/2017 Time: 9:43AM
Page 1 of 1 B: 1336 P: 105, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy ClerkDoc Stamp-Deed: 280.00

SPACE ABOVE THIS LINE FOR RECORDING DATA

THIS WARRANTY DEED *Made the* ***28th*** *day of* ***April****, A.D.* ***2017****, by* ***TRAVIS A. LAMONDA****,* ***CONVEYING NON-HOMESTEAD PROPERTY****, hereinafter called the grantor, to* ***SHARON BALDAUF-MADERO*** *and* ***MARK MADERO, HER HUSBAND****, whose post office address is* ***356 BOURNE HILL ROAD, MORRIS, NY 13808****, hereinafter called the grantees:*

(Wherever used herein the terms "grantor" and "grantees" include all the parties to this instrument, singular and plural, the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth: *That the grantor, for and in consideration of the sum of $10.00 and other valuable consideration, receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the grantees all that certain land situate in* ***Columbia County, State of Florida****, viz:*

Lot 6, WESTWIND ESTATES, a subdivision according to the plat thereof, recorded in Plat Book 7, Pages 126 and 127, of the Public Records of Columbia County, Florida.

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 grantees that he is lawfully seized of said land in fee simple; that he has good right and lawful authority to sell and convey said land, and 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, 2017.*

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

Signed, sealed and delivered in the presence of:

Heather Craig
Witness Signature
Heather Craig
Printed Name

Martha Bryan
Witness Signature
MARTHA BRYAN
Printed Name

L.S.
TRAVIS A. LAMONDA
Address:
3033 SW SR. 247, LAKE CITY, FLORIDA 32024

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this ***28th*** *day of* ***April, 2017****, by* ***TRAVIS A. LAMONDA****, who is known to me or who has produced* **Driver's License** *as identification.*

Notary Public
My commission expires _____

MARTHA J. BRYAN
Commission # FF 244821
Expires August 10, 2019
Bonded Thru Troy Fain Insurance 800-385-7019

Columbia County Property Appraiser

Jeff Hampton

2018 Tax Roll Year
updated: 1/11/2019

Parcel: << **07-4S-16-02791-106** >>

Owner & Property Info

Result: 2 of 2

Owner	**MADERO SHARON BALDAUF & MARK** 356 BOURNE HILL ROAD MORRIS, NY 13808		
Site	449 MADISON CT, LAKE CITY		
Description*	LOT 6 WESTWIND ESTATES. 979-1744, WD 1046-1231, WD 1249-1913, QC 1306-1718, WD 1308-2004, QC 1327-986, WD 1336-105,		
Area	5.01 AC	S/T/R	07-4S-16
Use Code**	MISC RES (000700)	Tax District	3

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

Aerial Viewer | Pictometery | Google Maps

2016 2013 2010 2007 2005 2004 1999 Sales

Property & Assessment Values

2018 Certified Values		2019 Working Values	
Mkt Land (2)	$26,275	Mkt Land (2)	$26,275
Ag Land (0)	$0	Ag Land (0)	$0
Building (0)	$0	Building (0)	$0
XFOB (1)	$5,000	XFOB (4)	$27,232
Just	$31,275	Just	$53,507
Class	$0	Class	$0
Appraised	$31,275	Appraised	$53,507
SOH Cap [?]	$0	SOH Cap [?]	$0
Assessed	$31,275	Assessed	$53,507
Exempt	$0	Exempt	$0
Total Taxable	county:$31,275 city:$31,275 other:$31,275 school:$31,275	Total Taxable	county:$53,507 city:$53,507 other:$53,507 school:$53,507

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
4/28/2017	$40,000	1336/0105	WD	I	Q	01
12/13/2016	$100	1327/0986	QC	V	U	11
1/26/2016	$30,000	1308/2004	WD	V	Q	01
12/18/2015	$100	1306/1718	QC	V	U	11
2/18/2013	$25,000	1249/1913	WD	V	Q	01
5/16/2005	$55,900	1046/1231	WD	V	Q	

Building Characteristics

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

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0294	SHED WOOD/	2016	$5,000.00	1.000	0 x 0 x 0	(000.00)
0210	GARAGE U	2018	$20,336.00	1271.000	31 x 41 x 0	(000.00)
0040	BARN,POLE	2018	$1,000.00	400.000	10 x 40 x 0	(000.00)
0166	CONC,PAVMT	2018	$896.00	448.000	14 x 32 x 0	(000.00)

Land Breakdown

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
000700	MISC RES (MKT)	1.000 LT - (5.010 AC)	1.00/1.00 1.00/1.00	$24,275	$24,275
009945	WELL/SEPT (MKT)	1.000 UT - (0.000 AC)	1.00/1.00 1.00/1.00	$2,000	$2,000

Search Result: 2 of 2

Columbia County Property Appraiser

Jeff Hampton | Lake City, Florida | 386-758-1083

PARCEL: 07-4S-16-02791-106 | MISC RES (000700) | 5.01 AC

LOT 6 WESTWIND ESTATES. 979-1744, WD 1046-1231, WD 1249-1913, QC 1306-1718, WD 1308-2004, QC 1327-986, WD 1336-105,

Owner:	**MADERO SHARON BALDAUF & MARK**		
	356 BOURNE HILL ROAD		
	MORRIS, NY 13808		
Site:	449 MADISON CT, LAKE CITY		
Sales Info	4/28/2017	$40,000	I (Q)
	12/13/2016	$100	V (U)
	1/26/2016	$30,000	V (Q)

2018 Certified Values

Mkt Lnd	$26,275	Appraised	$53,507
Ag Lnd	$0	Assessed	$53,507
Bldg	$0	Exempt	$0
XFOB	$27,232		**county:**$53,507
Just	$53,507	Total Taxable	**city:**$53,507
			other:$53,507
			school:$53,507

NOTES:

Columbia County, FL

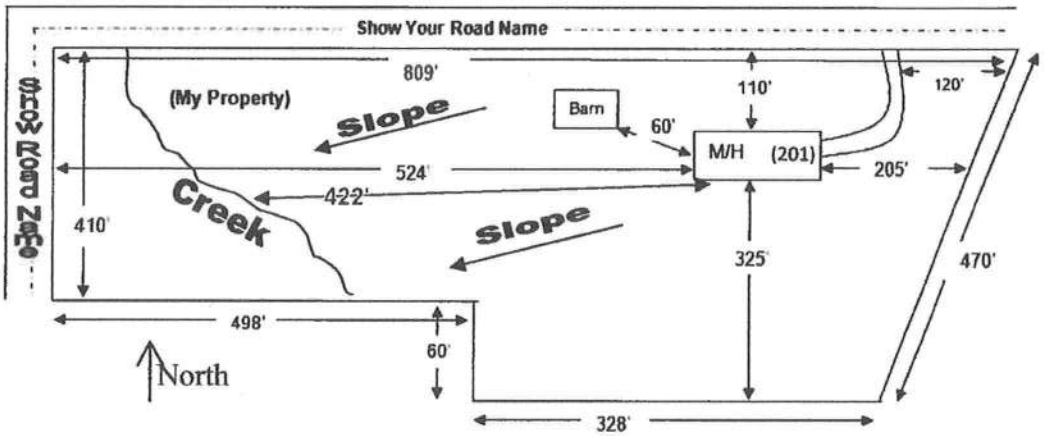
SITE PLAN CHECKLIST

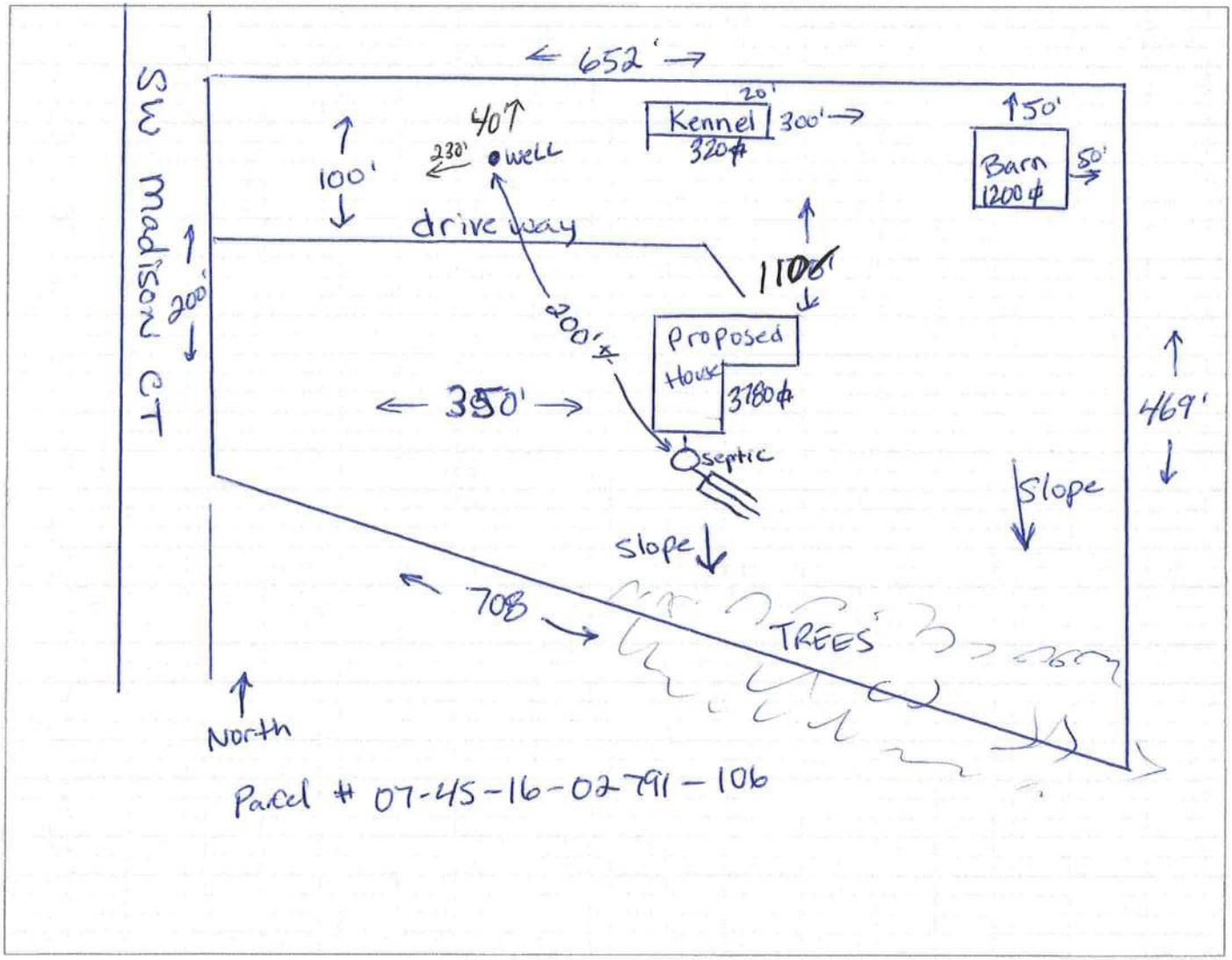
___1) Property Dimensions
___2) Footprint of proposed and existing structures (including decks), label these with existing addresses
___3) Distance from structures to all property lines
___4) Location and size of easements
___5) Driveway path and distance at the entrance to the nearest property line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

SITE PLAN EXAMPLE

Revised 7/1/15

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





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

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

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

Date/Time Issued:	**2/14/2019 10:55:42 AM**
Address:	**449 SW MADISON Ct**
City:	**LAKE CITY**
State:	**FL**
Zip Code	**32024**
Parcel ID	**02791-106**

REMARKS: Address Verification.

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

STATE OF FLORIDA WELL COMPLETION REPORT

- [ ] Southwest
- [ ] Northwest
- [ ] St. Johns River
- [ ] South Florida
- [x] Suwannee River
- [ ] DEP
- [ ] Delegated Authority (If Applicable)

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Existing Well

Date Stamp

Confirmation#
15666

Date:03/08/2016

Official Use Only

1. *Permit Number 226987 *CUP/WUP Number ______ *DID Number 125058 62-524 Delineation No. ______
2. *Number of permitted wells constructed, repaired, or abandoned 1 *Number of permitted wells not constructed, repaired, or abandoned 0
3. *Owner's Name WILLIAMS CHRISTOPHER D & 4.*Completion Date 03/01/2016 5. Florida Unique ID ______
6. LAKE CITY; FL - 32024
   *Well Location – Address, Road Name or Number, City, ZIP
7. *County ______ *Section 7 Land Grant ______ *Township 4S *Range 16E
8. Latitude 300923.0004 Longitude 824456.0004
9. Data Obtained From: ___ GPS X Map ___ Survey Datum: ___ NAD 27 X NAD 83 ___ WGS 84

10. *Type of Work: X Construction ___ Repair ___ Modification ___ Abandonment

11. *Specify Intended Use(s) of Well(s):

X Domestic
___ Bottled Water Supply
___ Public Water Supply (Limited Use/DOH)
___ Public Water Supply (Community or Non-Community/DEP)
___ Class I Injection
___ Landscape Irrigation
___ Recreation Area Irrigation
___ Agricultural Irrigation
___ Livestock
___ Nursery Irrigation
___ Commercial/Industrial
___ Golf Course Irrigation
___ Site Investigation
___ Monitoring
___ Test
___ Earth-Coupled Geothermal
___ HVAC Supply
___ HVAC Return

Class V Injection: ___ Recharge ___ Commercial/Industrial Disposal ___ Aquifer Storage and Recovery ___ Drainage
Remediation: ___ Recovery ___ Air Sparge ___ Other (Describe) ______
___ Other (Describe) ______

12. *Drill Method: ___ Auger ___ Cable Tool X Rotary ___ Combination (Two or More Methods) ___ Jetted ___ Sonic
    ___ Horizontal Drilling ___ Hydraulic Point (Direct Push) ___ Other ______
13. *Measured Static Water Level 79 ft. Measured Pumping Water Level 79 ft. After 20 Hours at 1 GPM
14. *Measuring Point (Describe) Top of Casing Which is 1 ft. X Above ___ Below Land Surface *Flowing: ___ Yes X No
15. *Casing Material: X Black Steel ___ Galvanized ___ PVC ___ Stainless Steel ___ Not Cased ___ Other ______
16. *Total Well Depth 140 ft. Cased Depth 118 ft. *Open Hole: From 118 To 140 ft. *Screen: From ___ To ___ ft. Slot Size ______

17. *Abandonment: ___ Other(Explain) ______

From	To	No. of Bags	Seal Material (Check One)
___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___

18. *Surface Casing Diameter and Depth:

Dia	From	To	No. of Bags	Seal Material (Check One)
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___

19. *Primary Casing Diameter and Depth:

Dia	From	To	No. of Bags	Seal Material (Check One)
4 in.	1 ft.	118 ft.	4	X Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___

20. *Liner Casing Diameter and Depth:

Dia	From	To	No. of Bags	Seal Material (Check One)
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___

21. *Telescope Casing Diameter and Depth:

Dia	From	To	No. of Bags	Seal Material (Check One)
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___
___ in.	___ ft.	___ ft.	___	___ Neat Cement ___ Bentonite ___ Other ___

22. Pump Type (If known):
___ Centrifugal ___ Jet X Submersible ___ Turbine
Horsepower 1 Pump Capacity (GPM) 20
Pump Depth 105 ft. Intake Depth 107 ft.

23. Chemical Analysis (When Required):
Iron ___ ppm Sulfate ___ ppm Chloride ___ ppm
___ Laboratory Test ___ Field Test Kit

24. Water Well Contractor:

*Contractor Name Donald Hall *License Number 1503 E-mail Address hallspumpandwell@bellsouth.net

*Contractor's Signature ______ *Driller's Name (Print or Type) Jesse Pettis
(I certify that the information provided in this report is accurate and true.)

*Permit No. 226987

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
PHONE: (352) 796-7211 or (800) 423-1476
WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET, PALATKA, FL 32178-1429
PHONE: (386) 329-4500
WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PLAM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

***DRILL CUTTINGS LOG** (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From (ft.)	To (ft.)	Color	Grain Size (F, M, C)	Material
0	20	White	Fine	Clay
20	40	Green	Fine	Clay
40	60	Tan	Coarse	Clay
60	140	White	Coarse	Limestone

Comments:

***Detailed Site Map of Well Location**

Suwannee River WATER MANAGEMENT DISTRICT e-Permitting

Search | Apply/Submit | Help | Login

Counties: Columbia Start Date: 01/31/2000 End Date: 01/31/2019

Back

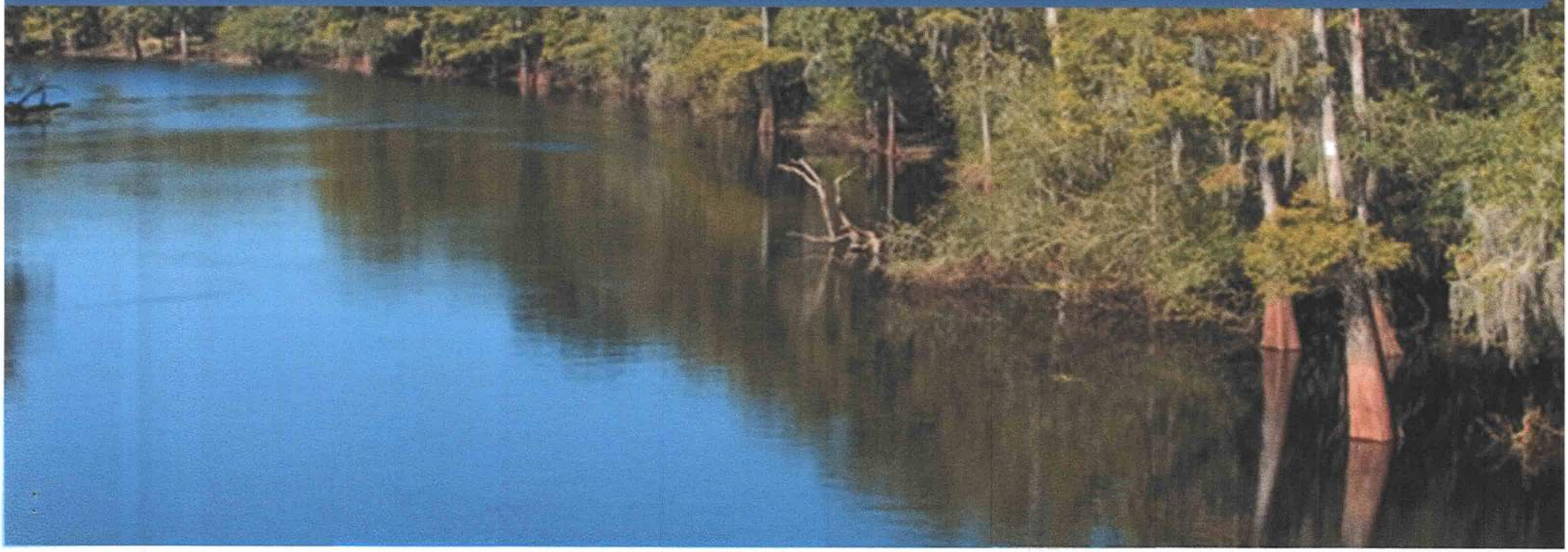
Sort Results: -- Order by -- | Ascending | GO

Records: 1 to 1 of 1 Page 1 of 1

Download Results

Party Name	Location	Date(s)	Well Info	Well Street Address	References	Attachments
Owner : K D WILLIAMS Contractor : Donald Hall Driller : HALL DONALD	County : Columbia S : 7 T : 4S R : 16E	Completion Date : 06/12/1996 Issue Date : 06/10/1996	Casing (ft) : 126 Total Depth (ft) : 160 Diameter (in): 4 Static Water Level (ft): 100 Type of Work: New Construction Use: Domestic	-	Permit : 3-023-58765-1 Legacy # : 58232 Item : 58707 License : 1503 Station ID : 59107	

Records: 1 to 1 of 1 Page 1 of 1



COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Office: 386-758-1008 Fax: 386-758-2160

OWNER BUILDER DISCLOSURE STATEMENT

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed $75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased with in 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address http://www.myfloridalicense.com/dbpr/for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

449 SW Madison Ct, Lake City, FL 32024.

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual of firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of $300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of $100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

TYPE OF CONSTRUCTION

(X) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding

( ) Addition, Alteration, Modification or other Improvement

( ) Commercial, Cost of Construction_____ for construction of_____

( ) Other_____

I Mark Madero, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.

Owner Builder Signature _____ Date 2/26/19

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification Florida Drivers License

Notary Signature _____ Date 2-26-19

(Seal) DONALD ROBERT SUHL
Notary Public - State of Florida
Commission # GG 222464
My Comm. Expires May 28, 2022
Bonded through National Notary Assn.

FOR BUILDING DEPARTMENT USE ONLY

I hereby certify that the above listed owner builder has been given notice of the restriction stated above.

Building Official/Representative _____

Revised: 7-1-15
DISCLOSURE STATEMENT 15
Documents: B&Z Forms

Legend

2016Aerials

Subdivisions

Parcels

Roads

Roads
others
Dirt
Interstate
Main
Other
Paved
Private

Addressing:2018 Base Flood Elevations Group

2018 Base Flood Elevations

DEFAULT
Base Flood Elevations

2018 Base Flood Elevation Zones

0.2 PCT ANNUAL CHANCE
A
AE
AH

2009 Base Flood Elevations

DEFAULT
Base Flood Elevations

2018 Flood Zones

0.2 PCT ANNUAL CHANCE
A
AE
AH

DevZones1

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

FutureLandUseMap

Mixed Use Development
Light Industrial
Industrial
Highway Interchange
Commercial
Residential High Density (< 20 d.u. per acre)
Residential Medium/High Density (< 14 d.u. per acre)
Residential Medium Density (< 8 d.u. per acre)
Residential Moderate Density (< 4 d.u. per acre)
Residential Low Density

Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Mar 19 2019 07:28:08 GMT-0400 (Eastern Daylight Time)

Parcel Information

Parcel No: 07-4S-16-02791-106

Owner: MADERO SHARON BALDAUF & MARK

Subdivision: WESTWIND ESTATES

Lot:

Acres: 5.014447

Deed Acres: 5.01 Ac

District: District 2 Rocky Ford

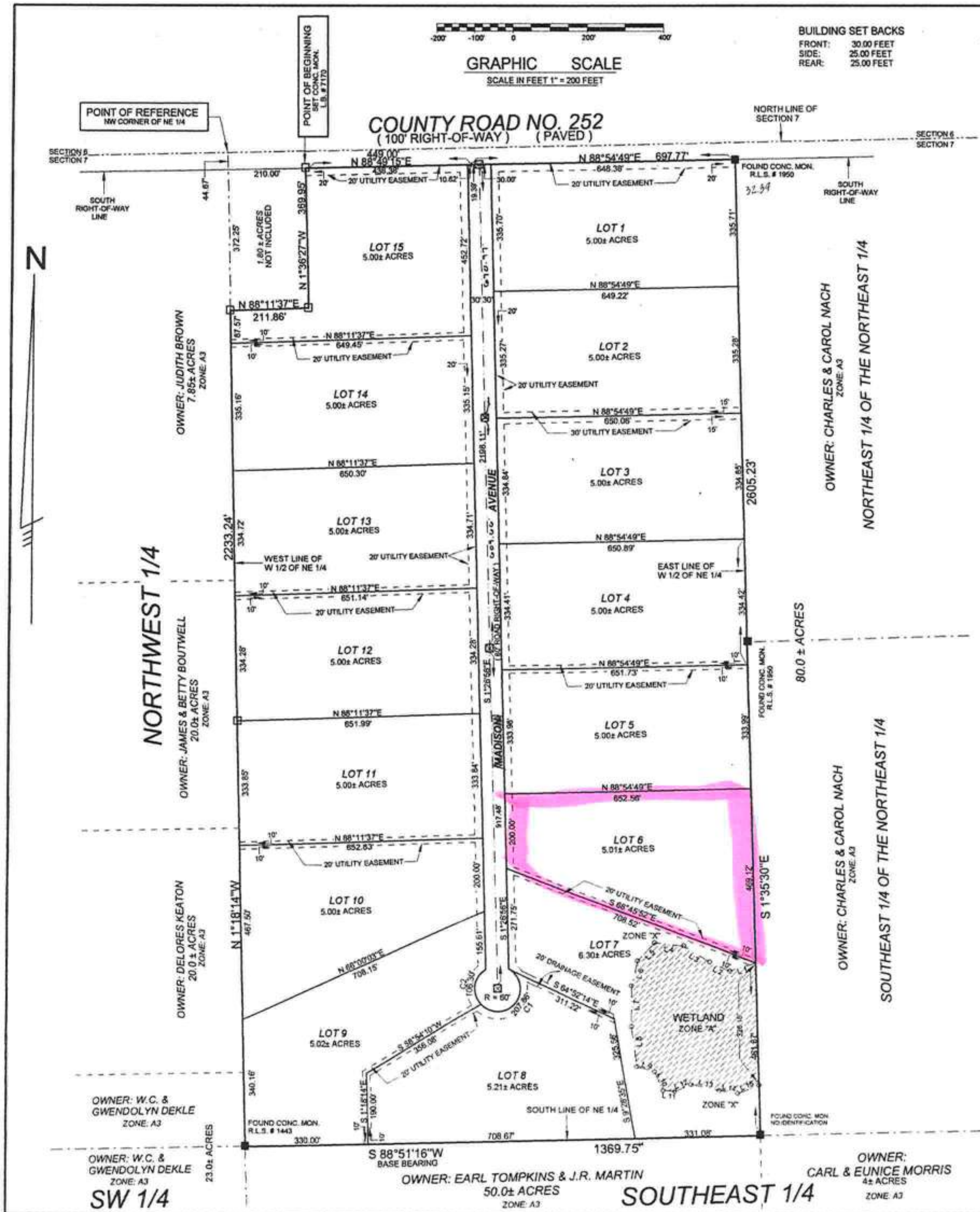
Future Land Uses: Agriculture - 3

Flood Zones: A,

Official Zoning Atlas: A-3

OFFICIAL RECORDS
BOOK 991 PAGE 304

FILE NUMBER 200316843
FILED AND RECORDED IN THE OFFICIAL RECORDS
OF COLUMBIA COUNTY, FLORIDA
8-8-03 AT 16:38 O'CLOCK P M
RECORD VERIFIED
P. DeWitt Cason
CLERK OF COURTS
COLUMBIA COUNTY, FLORIDA
BY: MCK D.C.



PLAT BOOK 7, PAGE 127

SHEET 2 OF 2

WESTWIND ESTATES

SITUATED IN THE WEST 1/2 OF THE NORTHEAST 1/4
OF SECTION 7, TOWNSHIP 4 SOUTH, RANGE 16 EAST,
COLUMBIA COUNTY, FLORIDA,

CURVE DATA

Curve	Delta Angle	Radius	Arc	Tangent	Chord	Chord Bearing
1	198°29'33"	60.00	207.86	0.00	118.44	S 37°47'51"W
2	101°30'27"	60.00	106.30	73.45	92.93	N 7°47'51"E

WETLANDS LINE TABLE

Line	Bearing	Distance
1	S 72°29'24"W	71.55'
2	N 85°50'59"W	60.84'
3	N 57°13'09"W	78.78'
4	N 83°41'53"W	79.04'
5	S 42°06'39"W	64.56'
6	S 12°49'57"W	68.35'
7	S 0°15'37"E	108.58'
8	S 7°04'43"E	106.88'
9	S 72°03'29"E	48.03'
10	S 24°14'14"E	54.71'
11	S 84°30'42"E	31.58'
12	N 86°05'00"E	46.35'
13	S 77°26'29"E	75.33'
14	S 81°02'17"E	51.46'
15	N 68°46'32"E	60.15'

NOTICE:
This plat, as recorded in its graphic form, is the official depiction of the subdivided lands described herein and will in no circumstances be supplanted in authority by any other graphic or digital form of the plat. There may be additional restrictions that are not recorded on this plat that may be found in the public records of this county.

NOTICE:
All platted utility easements shall provide that such easements shall also be easements for the construction, installation, maintenance, and operation of cable television services; provided, however, no such construction, installation, maintenance, and operation of cable television services shall interfere with the facilities and services of an electric, telephone, gas, or other public utility. In the event a cable television company damages the facilities of a public utility, it shall be solely responsible for the damages.

A BUILDING PERMIT FOR THE CONSTRUCTION OR LOCATION OF ANY RESIDENTIAL BUILDING OR STRUCTURE SHALL NOT BE ISSUED FOR LESS THAN ONE ENTIRE LOT AS DEPICTED ON THIS SUBDIVISION PLAT, EXCEPT AS OTHERWISE PROVIDED BY LAW.

ZONING:
A3 - AGRICULTURAL 3

UTILITY EASEMENT DETAIL:

DENOTES 20' EASEMENT AS SHOWN. EASEMENTS SHOWN HEREON FOR UTILITIES SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE AND OPERATION OF CABLE TELEVISION SERVICES.

FLOOD ZONE:
THE PROPERTY AS SURVEYED FALLS WITHIN ZONES "A" AND "X" AS PER THE FLOOD INSURANCE RATE MAP OF THE FEDERAL ELERGENCY MANAGEMENT AGENCY PANEL NO. 120070 0175B

CERTIFICATE OF SURVEYOR

I, THE UNDERSIGNED PROFESSIONAL SURVEYOR AND MAPPER, HEREBY CERTIFY THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE LANDS SURVEYED, THAT THE SURVEY DATA COMPLIES WITH ALL REQUIREMENTS OF CHAPTER 177, FLORIDA STATUTES AND THE COLUMBIA COUNTY LAND DEVEL[redacted] CODE AND THAT THE PERMANENT REFERENCE MONUMENT[redacted] INSTALLED AS OF THE 3RD DAY OF JULY [redacted]

Timothy B. Alcorn
TIMOTHY B. ALCORN
REGISTERED LAND SURVEYOR
FLA. CERT. NO. 6332
DATE: JULY 02, 2003
JOB. NO. 244-9502 RP

"NOT VALID WITHOUT THE SIGNATURE AND THE ORIG[redacted] SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPE[redacted]

ABBREVIATIONS
N - NORTH
S - SOUTH
E - EAST
W - WEST
CONC. - CONCRETE
STY - STORY
MON - MONUMENT
I.P. - IRON PIPE
REB - REBAR
ST. - STREET
AVE - AVENUE

SCALE: 1" = 200'	DATE SURVEYED: 01-14-03	DATE D[redacted]
REVISED:	APPROVED BY:	DRAWN BY: SH

J. SHERMAN FRIER & ASSOCIATES
LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION - LB# 7170
130 WEST HOWARD STREET, P.O. BOX 580, LIVE OAK, FLORIDA 32064
PHONE: 386 - 362 - 4629 FAX: 386 - 362 - 5270

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1903-17 JOB NAME Madero Residence

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

NOTE: *It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.*
Use website to confirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx

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

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

		Need
ELECTRICAL ☑ CC# N/A	Print Name Mark Madero (Owner) Signature  Company Name: FPL (for inspections) License #: N/A Phone #: 607-434-0698	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C ☑ CC# N/A	Print Name Mark Madero (Owner) Signature  Company Name: N/A License #: N/A Phone #: 607-434-0698	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☑ CC# N/A	Print Name Mark Madero (Owner) Signature  Company Name: N/A License #: N/A Phone #: 607-434-0698	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☑ CC# 001056	Print Name Kevin L Bedenbaugh Jr. Signature  Company Name: Plumb Level Construction License #: CCC1329482 Phone #: (386) 755-2422	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#	Print Name N/A Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name N/A Signature Company Name: License#: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name N/A Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name N/A Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

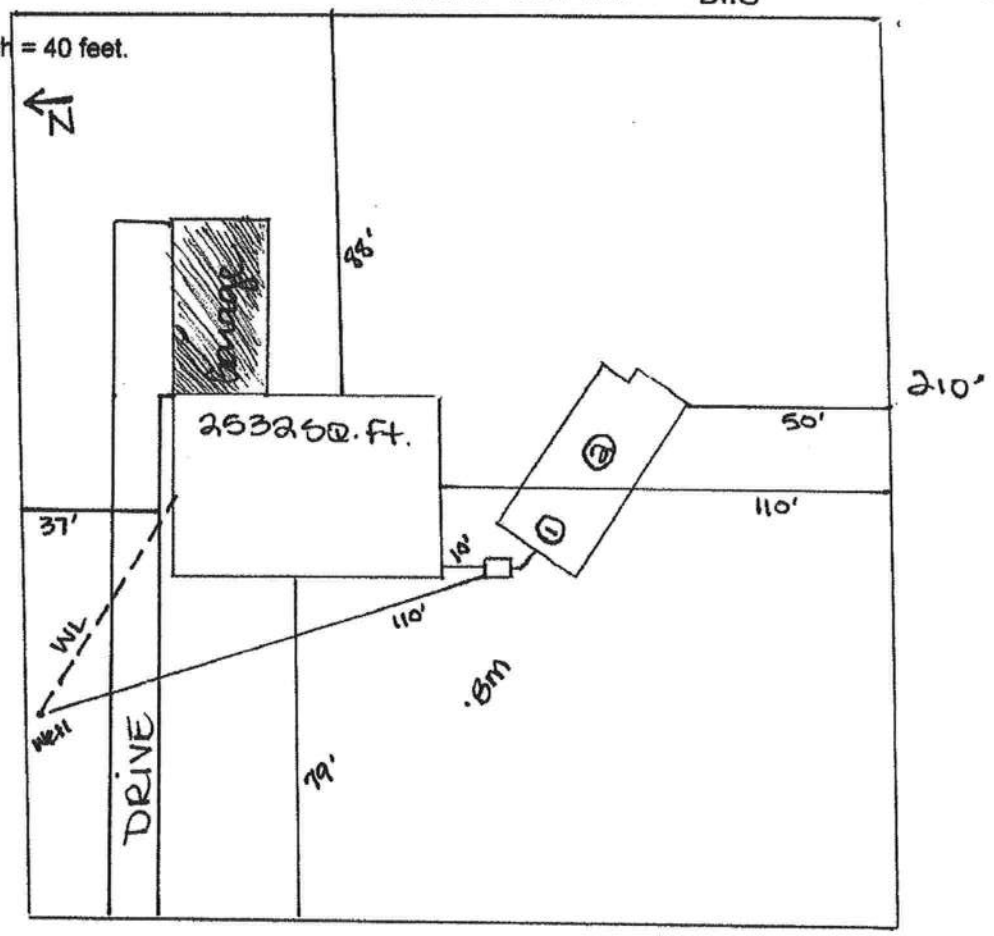
Ref: F.S. 440.103; ORD. 2016-30

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

Permit Application Number 19-0170

MADERO ---------- PART II - SITEPLAN ---- 210' ----------

Scale: 1 inch = 40 feet.



Notes: _____

1 ACRE OF 5.01 See attached

Site Plan submitted by: _____ MASTER CONTRACTOR

Plan Approved ✓ Not Approved ____ Date 2/20/19

By _____ ES1 Columbia County Health Department

2/28/19

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

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

PERMIT NO. 19-0170
DATE PAID: 2/25/19
FEE PAID: 310.00
RECEIPT #: 1400859

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

APPLICANT: Mark Madero

AGENT: ROCKY FORD, A & B CONSTRUCTION TELEPHONE: 386-497-2311

MAILING 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: 8 BLOCK: NA SUB: Westwind Estates PLATTED: _____

PROPERTY ID #: 07-4S-16-02791-106 ZONING: _____ I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: 5.01 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

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

PROPERTY ADDRESS: 449 Madison Ct Lake City FL

DIRECTIONS TO PROPERTY: 90 West Left on 252 Left on Madison Ct next to last lot on Left

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SF Residential	3	2532	
2				
3				

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

SIGNATURE: Rocky Ford DATE: 2/21/2019

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

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

GENERAL REQUIREMENTS:
APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to Include- Each Box shall be Circled as Applicable

Select From Drop down

1	Two (2) complete sets of plans containing the following:			✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			✓		
3	**Condition space (Sq. Ft.)**	2532	**Total (Sq. Ft.) under roof** 3780	Yes	No	NA

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

Site Plan information including:

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

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

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

Select From Drop down

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

Elevations Drawing including:

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

Floor Plan Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	Yes		
22	Raised floor surfaces located more than 30 inches above the floor or grade	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	NA		
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

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 valve of soil 1500 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 lapped 6 inches and sealed)	Yes		
36	Show control joints, synthetic fiber reinforcement or welded fire 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		

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 priers	Yes		
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	-		
43	Attachment of joist to girder	-		
44	Wind load requirements where applicable	Yes		
45	Show required under-floor crawl space	NA		
46	Show required amount of ventilation opening for under-floor spaces	NA		
47	Show required covering of ventilation opening	NA		
48	Show the required access opening to access to under-floor spaces	NA		
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	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	NA		
67	Connectors to wall assemblies' include assemblies' resistance to uplift rating	NA		
68	Valley framing and support details	NA		
69	Provide dead load rating of rafter system	NA		

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

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

FBCR Chapter 11 Energy Efficiency Code for Residential Building

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

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

HVAC information

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

Plumbing Fixture layout shown

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

Private Potable Water

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

Electrical layout shown including

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

Notice Of Commencement:

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

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

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

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	NA		
97	**Toilet facilities shall be provided for all construction sites**	Yes		
98	**Town of Fort White** (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	NA		
99	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municode.com)	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.	NA		
101	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is **$50.00**	NA		
102	**Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$50.00**) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	Yes		
103	**911 Address:** An application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	Yes		

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

Disclosure Statement for Owner Builders:

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

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

Section 105 of the Florida Building Code defines the:

Time limitation of application.

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

Single-family residential dwelling.

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

Permit intent.

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

If work has commenced.

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

New Permit.

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

Work Shall Be:

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

The Fee:

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

Notification:

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

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Masonite	Inswing / Outswing Fiberglass	FL 8228-R9
B. SLIDING	Magnolia	400 Patio Door	FL-12717-R5
C. SECTIONAL/ROLL UP			
D. OTHER = Garage Doors	Cloplay	Windcode W3	FL 15279-R5
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	Magnolia	400 Single Hung	FL16475-R3
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	Allura Plycem	Cement Board Lap Siding	20742 FL ~~17402~~-R2
B. SOFFITS	Kaycan	Vinyl Soffits	FL-16503
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL	Captital Metal	Capital Rib Roofing	FL-17992-R2
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	Simpson	Straps / Holds / Hurricane Ties	FL13872-R2
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

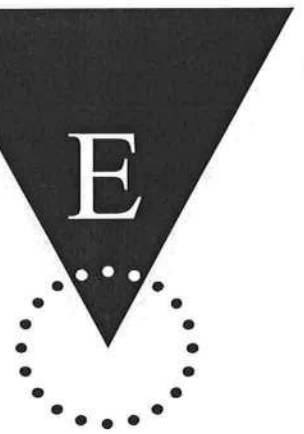
The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product 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.

Mat Madia

NOTES: _____

Schafer Engineering LLC

14705 Main St. Alachua FL 32615



Prepared for:

MADERO RESIDENCE
WESTWIND ESTATES / LOT 6
LAKE CITY, FLORIDA

By:

Schafer Engineering, LLC **CA9312**

386-462-1340

NO COPIES ARE TO BE PERMITTED

SCHAFER ENGINEERING, LLC

7104 NW 42ND LANE \ GAINESVILLE FL. 32606
PHONE: 386-462-1340

Trusses: Pre-engineered, pre-fabricated with the manufacturer's required bracing system installed.

Roof Sheathing: Type: OSB Size: 7/16" Fastener type nails: 8d / .113 Ring Shank

Interior zone spacing: Interior: 6" Periphery: 4"

Edge and end zone spacing: Interior: 6" Periphery: 4"

Double Top Plate: Type: Spruce Grade: #2 Size: 2 x 4 Nail Spacing: 8" o.c.

Stud Type: Spruce Grade: #2 Size: 2 x 4

Interior stud spacing: 16" End stud spacing: 16"

Required Shear Wall Siding: Type: OSB Thickness: 7/16"

71 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"

56 ft Long: Fastener 8d/131 Spacing: Int: 8 Edge: 4"

Allowable Unit Shear on Shear Walls: 314 pounds per linear foot

Allowable Unit Shear Transferred from Diaphragm: Trans: 249 Long: 99

Wall Tension Transferred by: Siding Nails: 8d/131 @ 4" O.C. Edges

Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"

Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"

Anchor Bolts @ 48" o.c. Model: A307 Loc. from corner: 8"

Type of Foundation: (1) - #5 rebar continuous required in bond beam.

Floor Slab: 4" Cmu size: 8" x 16" Height: 32" Rein.: #5 at 72" o.c.

Monolithic Footing: Depth: 20" Bottom Width: 12 Rein.: 2 #5 rebars

Stemwall Footing: Width: 20 Depth: 10 Rein.: 2 #5 rebar

Interior Footings 20" Wide X 12" Deep with 2-#5 rebar continuous

Porch Columns: 6 X 6 X 9' syp #2 pt @ 7'-6" o.c. max. spacing Column Fasteners: Simpson PC66 \ PBS66 or equal

Special Comments: Install 2 ply 2 x 12 syp #2 with 7/16" osb flitch beam over all doors, windows and covered porches.

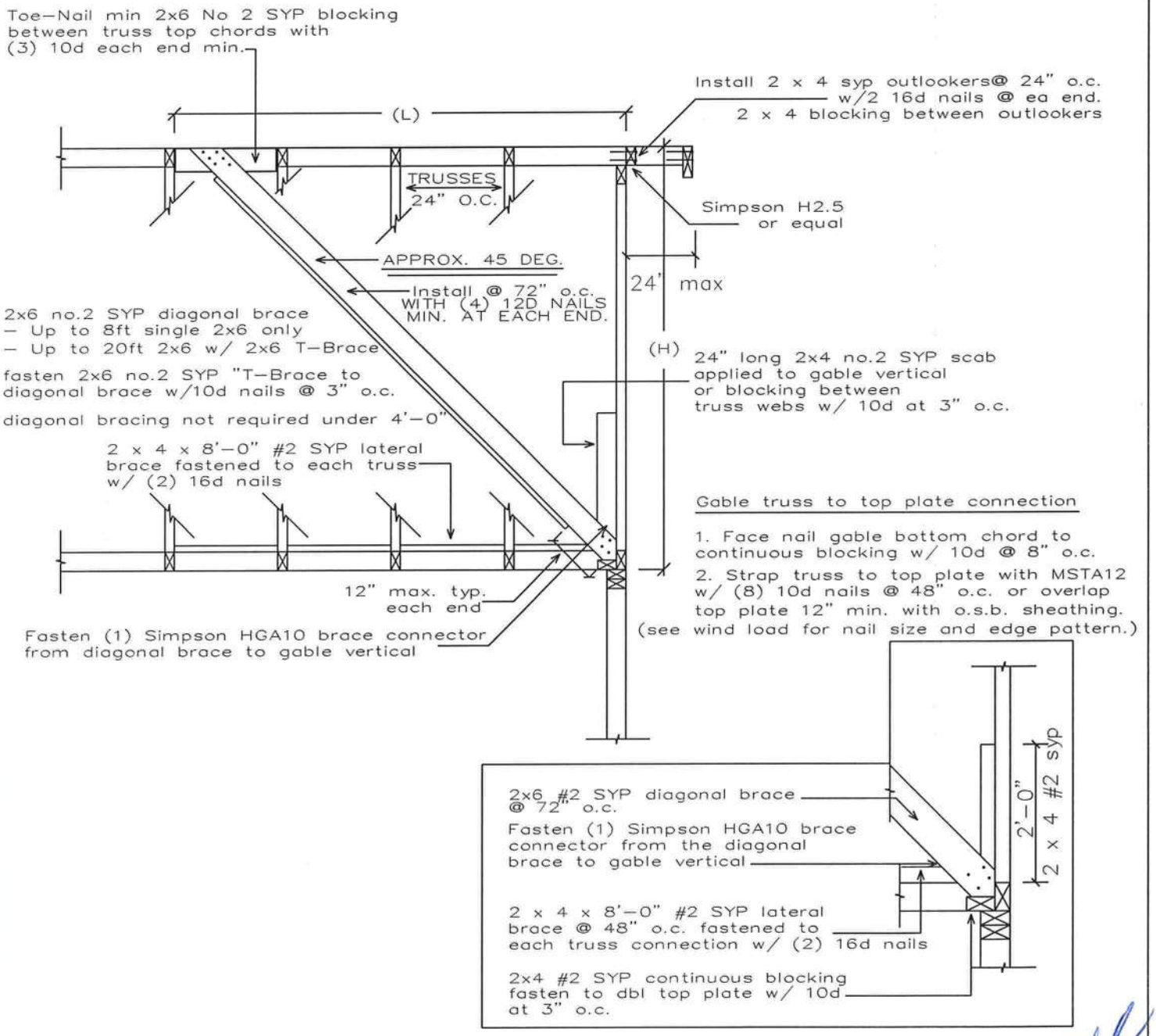
Notes:

1. Balloon frame all gable ends unless accompanied by gable end detail
2. All walls to be nailed with same nailing pattern as the shear walls.
3. This wind load is not valid without a raised, embossed seal. (NO COPIES).
4. 1500 psf soil bearing pressure minimum.
5. Fiber mesh or WWM may be used in concrete slab. All steel must be grade 40 min. Install standard 10" ACI hook top and bottom.
6. Trusses must be installed and anchored in accordance to the truss engineering.
7. All headers spanning 12' and over must be pre-engineered.
8. This is a windload only. Not a structural analysis. Schafer Engineering strongly recommends always having a structural analysis.
9. The foundation is for minimum design use, and may be increased.
10. Wind load is for one use only \ FBC-2017 \ No copies permitted
11. Install anchor bolts a 48" o.c., & Simpson SP1 at bottom plate and Simpson SP2 at top plate or equal @ 32" O.C. for all interior bearing walls.
12. Truss company to use all exterior porch walls for bearing when possible.

1-25-19

Bruce Schafer, P. E. #48984 ca 9312
7104 NW 42ND LN
GAINESVILLE, FL. 32606

SCHAFER ENGINEERING, LLC
7104 NW 42ND LANE \ GAINESVILLE FL. 32606
PHONE: 386-462-1340



TYPICAL GABLE END BRACING

1-25-19

Bruce Schafer, P. E. #48984 CA #9312
7104 NW 42ND LN
GAINESVILLE, FL. 32606

SCHAFER ENGINEERING, LLC

7104 NW 42ND LANE \ GAINESVILLE FL. 32606

PHONE: 386-462-1340

TIE-DOWN TABLES

HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA9	635	H3	320
to 910	LSTA12	795	2-H3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2565
to 3700	3-LSTA24	3880	HD5A-3	3130

Total the uplift for each truss sitting on the header and divide by 2 to determine the uplift on the header. Use proper bolt anchors sufficient to support required uplift loads.

TRUSSES \ GIRDERS			
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs
to 535	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2-TS22	LTT20	1750
to 2570	2-TS22	HD2A	2565
to 3665	3-TS22	HD5A	3645
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	8160

Two 12d common toenials are required per truss for each bearing point into top plate.
It is the contractors responsibility to provide a continuous load path from truss to foundation.

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2200

1. Simpson or equivlent hardware may be used. For nailing into spruce members, multiply table values by .86
2. See truss engineering for anchor uplift values.
3. This schedule is not meant to be a replacement to the specified values of any manufactures values.

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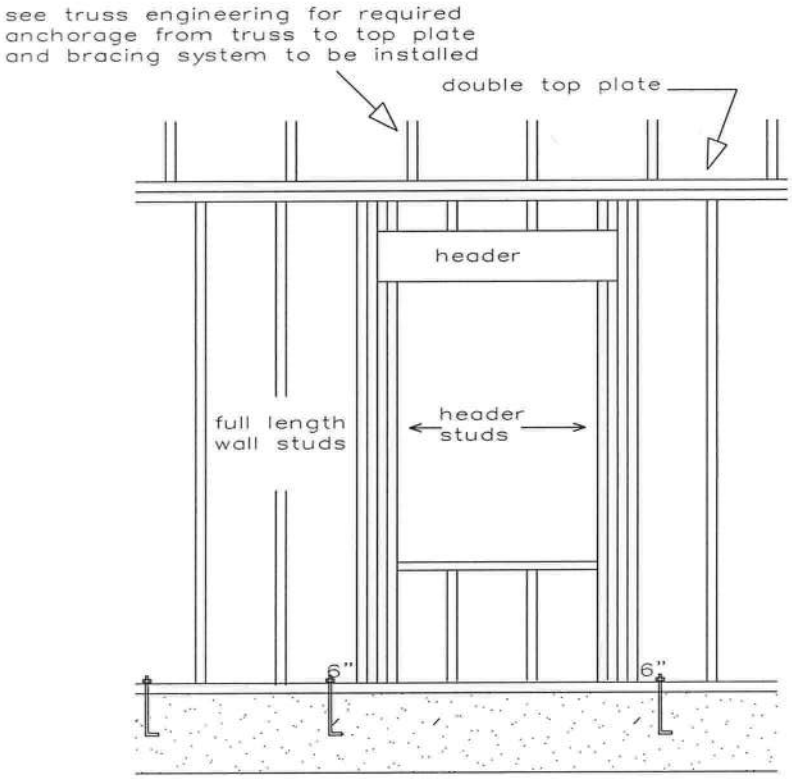


total each truss uplift on the header and divide by two for header and header stud anchorages

Unsupported Wall Height	Stud Spacing	Maximum Header Span (ft)					
		3'	6'	9'	12'	15'	18'
		Number of Header Studs Supporting End of Header					
		1	1	2	2	2	2
		Number of Full Length Studs at Each End of Header					
10'-0" or less	12"	2	2	3	3	3	3
	16"	2	2	3	3	3	3
	24"	1	2	2	2	2	2
Greater than 10'-0"	12"	2	2	3	4	5	5
	16"	2	2	3	3	4	4
	24"	1	2	2	2	3	3

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	135	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	30.3	Deg
Type of Roof	Gabled	
Eave Height (Eht)	9.00	ft
Ridge Height (RHt)	20.92	ft
Mean Roof Height (Ht)	14.91	ft
Width Perp. to Wind (B)	84.00	ft
Width Parallel to Wind (L)	66.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters	
Type of Structure	
Height/Least Horizontal Dim	0.23
Flexible Structure	No

Calculated Parameters		
Importance Factor	1	
Non-Hurricane, Hurricane (v=85-100 mph) & Alaska		
Table C6-4 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Am =	0.250	
Bm =	0.450	
Cc =	0.300	
l =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Gust Factor Category I: Rigid Structures - Simplified Method			
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
Gust Factor Category II: Rigid Structures - Complete Analysis			
Zm	Zmin	30.00	ft
Izm	Cc * (33/z)^0.167	0.3048	
Lzm	l*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.8748	
Gust2	0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))	0.8511	
Gust Factor Category III: Flexible or Dynamically Sensitive Structures			
Vhref	V*(5280/3600)	198.00	ft/s
Vzm	bm*(zm/33)^Am*Vhref	87.00	ft/s
NF1	NatFreq*Lzm/Vzm	3.56	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0627	
Nh	4.6*NatFreq*Ht/Vzm	0.79	
Nb	4.6*NatFreq*B/Vzm	4.44	
Nd	15.4*NatFreq*Depth/Vzm	11.68	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.6302	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.1998	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0819	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.6702	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*Izm))	1.04	

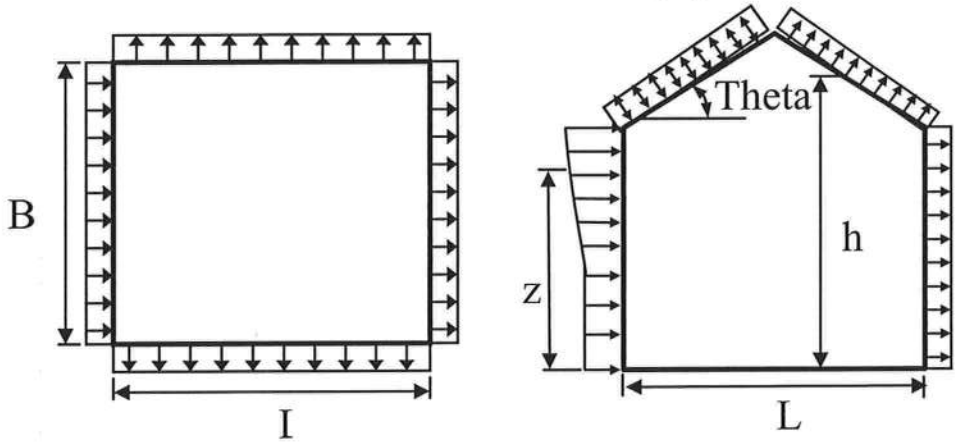
Gust Factor Summary			
Main Wind-force resisting system:		**Components and Cladding:**	
Gust Factor Category:	I	Gust Factor Category:	I
Gust Factor (G)	0.85	Gust Factor (G)	0.85

6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2)	
					Windward Wall*	
ft			1.00	lb/ft^2	+GCpi	-GCpi
20.92	0.70	1.00	1.00	32.69	17.43	27.08
20	0.70	1.00	1.00	32.69	17.43	27.08
15	0.70	1.00	1.00	32.69	17.43	27.08

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(15/zg)^(2/Alpha)	0.57	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	26.81	psf

Wall Pressure Coefficients, Cp	
Surface	Cp
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Description	Cp	Pressure (psf)	
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 84 ft wall)	-0.50	-16.24	-6.58
Leeward Walls (Wind Dir Parallel to 66 ft wall)	-0.45	-14.99	-5.34
Side Walls	-0.70	-20.80	-11.15
Roof - Normal to Ridge (Theta>=10)			
Windward - Max Negative	-0.19	-9.12	0.54
Windward - Max Positive	0.31	2.16	11.81
Leeward Normal to Ridge	-0.60	-18.52	-8.87
Overhang Top	-0.19	-4.29	-4.29
Overhang Bottom	0.80	0.68	0.68
Roof - Parallel to Ridge (All Theta)			
Dist from Windward Edge: 0 ft to 7.455 ft	-0.90	-25.37	-15.71
Dist from Windward Edge: 7.455 ft to 14.91 ft	-0.90	-25.37	-15.71
Dist from Windward Edge: 14.91 ft to 29.82 ft	-0.50	-16.24	-6.58
Dist from Windward Edge: > 29.82 ft	-0.30	-11.67	-2.02

* Horizontal distance from windward edge

Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(15/zg)^(2/Alpha)	=	0.57
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	26.81

Case A						
Surface	**GCpf**	**+GCpi**	**-GCpi**	**qh (psf)**	**Min P (psf)**	**Max P (psf)**
1	0.56	0.18	-0.18	32.69	12.42	24.19
2	0.21	0.18	-0.18	32.69	0.98	12.75
3	-0.43	0.18	-0.18	32.69	-19.94	-8.17
4	-0.37	0.18	-0.18	32.69	-17.98	-6.21
5	0.00	0.18	-0.18	32.69	-5.88	5.88
6	0.00	0.18	-0.18	32.69	-5.88	5.88
1E	0.69	0.18	-0.18	32.69	16.67	28.44
2E	0.27	0.18	-0.18	32.69	2.94	14.71
3E	-0.53	0.18	-0.18	32.69	-23.21	-11.44
4E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
5E	0.00	0.18	-0.18	32.69	-5.88	5.88
6E	0.00	0.18	-0.18	32.69	-5.88	5.88

* p = qh * (GCpf - GCpi)

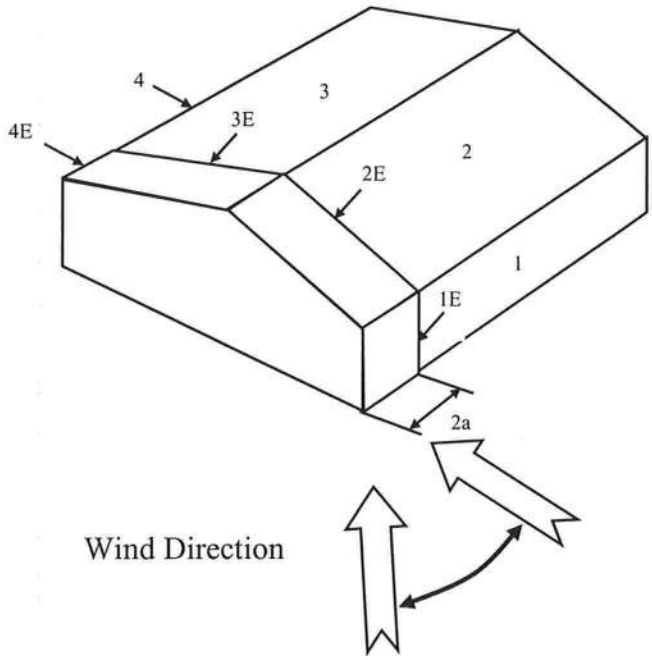


Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(15/zg)^(2/Alpha)	=	0.57
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	26.81

Case B						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	32.69	-20.59	-8.83
2	-0.69	0.18	-0.18	32.69	-28.44	-16.67
3	-0.37	0.18	-0.18	32.69	-17.98	-6.21
4	-0.45	0.18	-0.18	32.69	-20.59	-8.83
5	0.40	0.18	-0.18	32.69	7.19	18.96
6	-0.29	0.18	-0.18	32.69	-15.36	-3.60
1E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
2E	-1.07	0.18	-0.18	32.69	-40.86	-29.09
3E	-0.53	0.18	-0.18	32.69	-23.21	-11.44
4E	-0.48	0.18	-0.18	32.69	-21.57	-9.81
5E	0.61	0.18	-0.18	32.69	14.06	25.82
6E	-0.43	0.18	-0.18	32.69	-19.94	-8.17

* p = qh * (GCpf - GCpi)

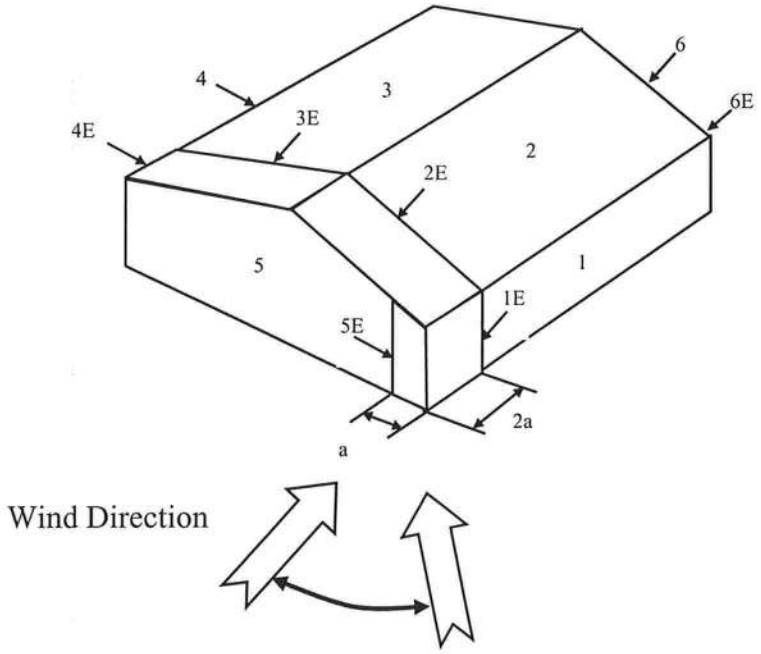
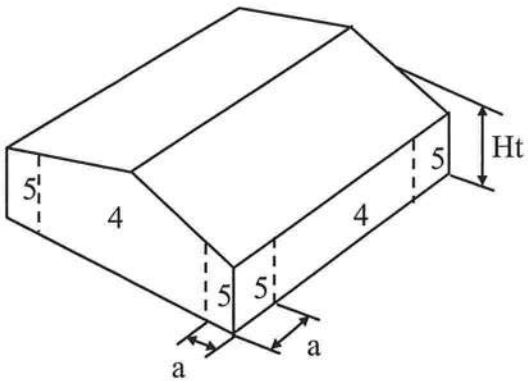
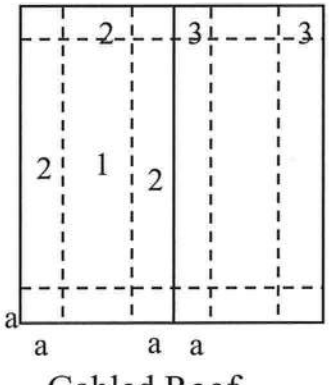


Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft





Gabled Roof

Gabled Roof

10 < Theta <= 45

a = 5.964 ==> 5.96 ft

Component	Width (ft)	Length (ft)	Area (ft^2)	Zone	GCp Max	GCp Min	Wind Press (lb/ft^2) Max	Wind Press (lb/ft^2) Min
	16	7	112.00	5	0.81	-1.03	26.67	-32.43
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
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	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					
	0	0	0.00					

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

Condition	Gcpi Max +	Gcpi Max -
Open Buildings	0.00	0.00
Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	**0.18**	**-0.18**

FLORIDA BUILDING CODE, ENERGY CONSERVATION

Residential Building Thermal Envelope Approach

FORM R402-2017 **Climate Zone ☐**

Scope: Compliance with Section R401.2(1) of the *Florida Building Code, Energy Conservation*, shall be demonstrated by the use of Form R402 for single- and multiple-family residences of three stories or less in height, additions to existing residential buildings, alterations, renovations and building systems in existing buildings, as applicable. To comply, a building must meet or exceed all of the energy efficiency requirements on Table R402A and all applicable mandatory requirements summarized in Table R402B of this form. If a building does not comply with this method, or by the UA Alternative method, it may still comply under Section R405 of the *Florida Building Code, Energy Conservation*.

PROJECT NAME AND ADDRESS:	Madero Residence 449 SW Madison Ct Lake City, FL 32024	**BUILDER:**	Owner
OWNER:	Mark & Sharon Madero	**PERMITTING OFFICE:**	
		JURISDICTION NUMBER:	
		PERMIT NUMBER:	

General Instructions:

1. **Fill in all the applicable spaces of the "To Be Installed" column on Table R402A with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.**
2. **Complete page 1 based on the "To Be Installed" column information.**
3. **Read the requirements of Table R402B and check each box to indicate your intent to comply with all applicable items.**
4. **Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.**

1.	**New construction, addition, or existing building**	1.	New Construction
2.	**Single-family detached or multiple-family attached**	2.	Single family Detached
3.	**If multiple-family, number of units covered by this submission**	3.	
4.	**Is this a worst case? (yes/no)**	4.	
5.	**Conditioned floor area (sq. ft.)**	5.	2532 #
6.	**Windows, type and area**		
	a) *U*-factor:	6a.	0.32
	b) Solar Heat Gain Coefficient (SHGC)	6b.	0.30
	c) Area	6c.	15 SF
7.	**Skylights**		
	a) *U*-factor:	7a.	
	b) Solar Heat Gain Coefficient (SHGC)	7b.	
8.	**Floor type, area or perimeter, and insulation:**		
	a) Slab-on-grade (*R*-value)	8a.	R-0
	b) Wood, raised (*R*-value)	8b.	
	c) Wood, common (*R*-value)	8c.	
	d) Concrete, raised (*R*-value)	8d.	R-0
	e) Concrete, common (*R*-value)	8e.	
9.	**Wall type and insulation:**		
	a) Exterior: 1. Wood frame (Insulation *R*-value)	9a1.	R-20
	2. Masonry (Insulation *R*-value)	9a2.	
	b) Adjacent: 1. Wood frame (Insulation *R*-value)	9b1.	R-20
	2. Masonry (Insulation *R*-value)	9b2.	
10.	**Ceiling type and insulation**		
	a) Attic (Insulation R-value)	10a.	R-38
	b) Single assembly (Insulation *R*-value)	10b.	
11.	**Air distribution system:**		
	a) Duct location, insulation	11a.	in Encapsulated Attic R-6
	b) AHU location	11b.	
	c) Total duct leakage. Test report attached.	11c.	cfm/100 s.f. Yes ☐ No ☐
12.	**Cooling system:** a) type	12a.	3 TON 14 Seer Heat pump
	b) efficiency	12b.	8.5
13.	**Heating system:** a) type	13a.	3 TON 14 Seer Heat pump
	b) efficiency	13b.	8.5
14.	**HVAC sizing calculation: attached**	14.	Yes ☑ No ☐
15.	**Water heating system:** a) type	15a.	Electric / Solar
	b) efficiency	15b.	0.90

I hereby certify that the plans and specifications covered by this form are in compliance with the *Florida Building Code, Energy Conservation*.

PREPARED BY: Mark Madero **Date** 2/9/19

I hereby certify that this building is in compliance with the *Florida Building Code, Energy Conservation*.

OWNER/AGENT: Mark Madero **Date:** 2/12/19

Review of plans and specifications covered by this form indicate compliance with the *Florida Building Code, Energy Conservation*. Before construction is complete, this building will be inspected for compliance in accordance with Section 553.908, F.S.

CODE OFFICIAL: _____

Date: _____

TABLE R402A

BUILDING COMPONENT	PRESCRIPTIVE REQUIREMENTS[1]		INSTALLED VALUES
	Climate Zone 1	Climate Zone 2	
Windows Skylights	*U*-Factor = NR SHGC = 0.25 *U*-factor = 0.75 SHGC = 0.30	*U*-Factor = 0.40[2] SHGC = 0.25 *U*-factor = 0.65 SHGC = 0.30	*U*-Factor = SHGC = *U*-factor = SHGC =
Doors: Exterior door	*U*-factor = NR	*U*-factor = 0.40[3]	*U*-factor=
Floors: Slab-on-Grade Over unconditioned spaces[4]	 NR R-13	 NR R-13	 *R*-Value =
Walls[4]: Ext. and Adj. Frame Mass Insulation on wall interior Insulation on wall exterior	 R-13 R-4 R-3	 R-13 R-6 R-4	 *R*-Value = *R*-Value = *R*-Value =
Ceilings[5]	R=30	R=38	*R*-Value =
Air infiltration	Blower door test is required on the building envelope to verify leakage ≤ 1 ACH; test report provided to code official.		Total leakage = ACH Test report attached? Yes ☐ No ☐
Air distribution system[5]: Air handling unit Duct *R*-value Air leakage[5]: Duct test Ducts in conditioned space	 Not allowed in attic *R*-value ≥ R-8 (supply in attics) or ≥ R-6 (all other duct locations) Postconstruction test Total leakage ≤ 4 cfm/100 s.f. Rough-in test Total leakage ≤ 4 cfm/100 s.f. (air handler installed) Total leakage ≤ 3 cfm/100 s.f. (air handler not installed) Test not required if all ducts and AHU are in conditioned space		 Location: *R*-Value = Total leakage = _____ cfm/100s.f. Test report Attached? Yes ☐ No ☐ Location:
Air conditioning system: Central system ≤ 65,000 Btu/h Room unit or PTAC Other:	Minimum federal standard required by NAECA[6]: SEER 14.0 EER [from Table C403.2.3(3)] See Tables C403.2.3(1)-(11)		 SEER = EER =
Heating system: Heat pump ≤ 65,000 Btu/h Gas furnace, non-weatherized Oil furnace, non-weatherized Other:	Minimum federal standard required by NAECA[6]: HSPF 8.2 AFUE 80% AFUE 83%		 HSPF = AFUE = AFUE =
Water heating system (storage type): Electric[7] Gas fired[8] Other (describe):	Minimum federal standard required by NAECA[6]: 40 gal: EF = 0.92 50 gal: EF = 0.90 40 gal: EF = 0.59 50 gal: EF = 0.58		 Gallons = EF = Gallons = EF =

NR = No requirement.

(1) Each component present in the As Proposed home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method.

(2) For impact rated fenestration complying with Section R301.2.1.2 of the *Florida Building Code, Residential* or Section 1609.1.2 of the *Florida Building Code, Building*, the maximum *U*-factor shall be 0.65 in Climate Zone 2. An area-weighted average of *U*-factor and SHGC shall be accepted to meet the requirements, or up to 15 square feet of glazed fenestration area are exempted from the *U*-factor and SHGC requirement based on Sections R402.3.1, R402.3.2 and R402.3.3.

(3) One side-hinged opaque door assembly up to 24 square feet is exempted from this *U*-factor requirement.

(4) *R*-values are for insulation material only as applied in accordance with manufacturer's installation instructions. For mass walls, the "interior of wall" requirement must be met except if at least 50 percent of the insulation required for the "exterior of wall" is installed exterior of, or integral to, the wall.

(5) Ducts & AHU installed "substantially leak free" per Section R403.3.2. Test required by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), *Florida Statutes*. The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope.

(6) Minimum efficiencies are those set by the *National Appliance Energy Conservation Act* of 1987 for typical residential equipment and are subject to NAECA rules and regulations. For other types of equipment, see Tables C403.2.3(1-11) of the Commercial Provisions of the *Florida Building Code, Energy Conservation*.

(7) For other electric storage volumes, minimum EF = 0.97 - (0.00132 * volume).

(8) For other natural gas storage volumes, minimum EF = 0.67 - (0.0019 * volume).

TABLE R402B MANDATORY REQUIREMENTS			
Component	**Section**	**Summary of Requirement(s)**	**Check**
Air leakage	R402.4	To be caulked, gasketed, weatherstripped or otherwise sealed per Table R402.4.1.1. Recessed lighting: IC-rated as having ≤ 2.0 cfm tested to ASTM E 283. Windows and doors: 0.3 cfm/sq. ft. (swinging doors: 0.5 cfm/sf) when tested to NFRC 400 or AAMA/WDMA/CSA 101/I.S. 2/A440. Fireplaces: Tight-fitting flue dampers & outdoor combustion air.	
Programmable thermostat	R403.1.2	A programmable thermostat is required for the primary heating or cooling system.	
Air distribution system	R403.3.2 R403.3.4	Ducts shall be tested as per Section R403.3.2 by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes,* or individuals licensed as set forth in Section 489.105(3) (f), (g) or (i), *Florida Statutes.* Air handling units are not allowed in attics.	
Water heaters	R403.5	Comply with efficiencies in Table C404.2. Hot water pipes insulated to ≥ R-3 to kitchen outlets, other cases. Circulating systems to have an automatic or accessible manual OFF switch. Heat trap required for vertical pipe risers.	
Swimming pools & spas	R403.10	Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency is 82%. Heat pump pool heaters minimum COP is 4.0.	
Cooling/heating equipment	R403.7	Sizing calculation performed & attached. Special occasion cooling or heating capacity requires separate system or variable capacity system.	
Lighting equipment	R404.1	At least 75% of permanently installed lighting fixtures shall be high-efficacy lamps.	

Project Name: Madero House
Address: 449 SW Madison Court, Lake City, FL
Form Type: HVAC System
HVAC System Name: Heat Pump

HVAC Project and System Summary - MJ8 Calculations
For Madero Residence

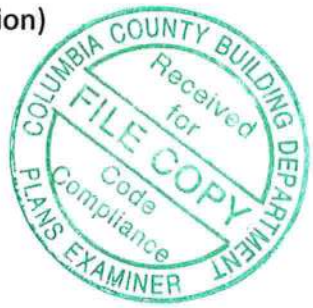
Project Description:

1 Floor – approx. 2532 square feet conditioned area

Winter Design conditions 31°F outside / 70°F inside
Summer Design conditions 92°F outside / 75°F inside

Building Description:

R-0 in Slab Floor
R-20 Wall Structure (2" Foam Board Insulation + 3.5" Batt Insulation)
R-38 Encapsulated Attic (Spray Foam)



Infiltration: Semi-Tight
EVR for ventilation
Window & Glass Doors: Low-E; U-value 0.32 SHGC 0.30
Ducts located in the encapsulated attic
Round Metal Trunk (R-6) with Round Metal branches (R-6)

Calculated Loads:

	Heating Btuh	Cooling Btuh
Entire House	30,491	18456

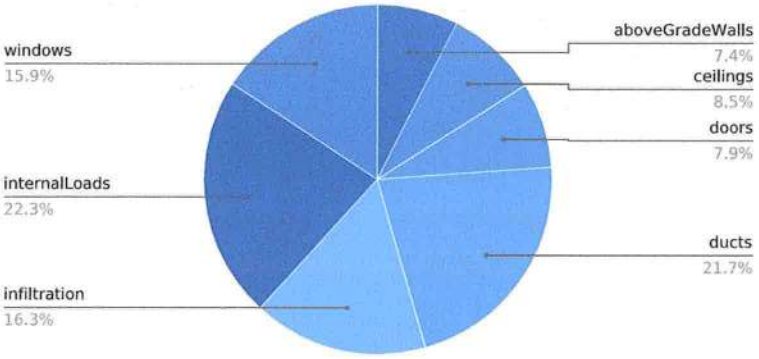
Equipment Recommendations:

Summary: A 4-ton heat pump is a good choice for this project. Two stage or variable capacity compressors would provide the best low temperature operation in the winter and is recommended. The software indicates the ideal equipment would be able to satisfy demand to 24° in heat pump mode. This should be verified with actual equipment under consideration.

Project Name: Madero House
Address: 449 Southwest Madison Court, Lake City, FL
FormType: HVAC System
HVAC System Name: Heat Pump

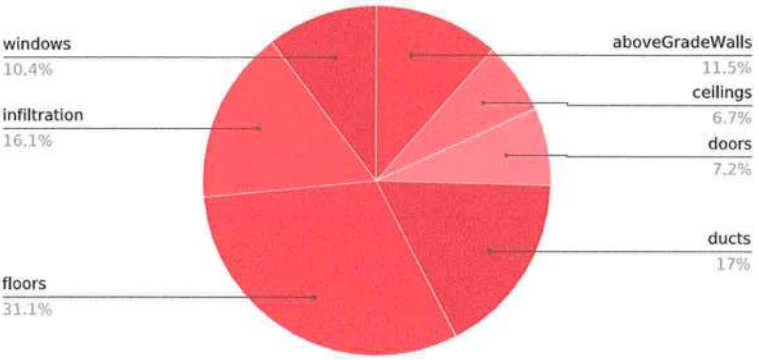
CROSS CITY AP, FL							
Summer Outdoor F:	92	Summer Indoor F:	75	Design Grains:	50	Daily Range:	Medium
Winter Outdoor F:	31	Winter Indoor F:	70	Cooling RH:	50%	Elevation (Ft):	43

LOAD CALCULATION TOTALS							
Heating BTU:	30491	Cooling BTU:	18456	SHR:	0.820	CFM:	683



Cooling Loads

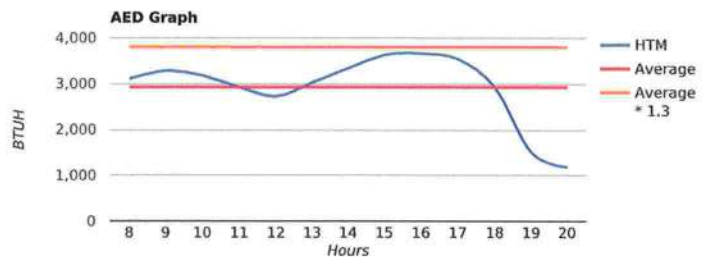
Name	Area	Sensible	Latent
AEDExcursion	0.00	0.00	0.00
aboveGradeWalls	1380.00	1372.41	0.00
belowGradeWalls	0.00	0.00	0.00
blowerMotor	0.00	0.00	0.00
ceilings	2382.00	1572.12	0.00
doors	144.00	1460.16	0.00
ducts	0.00	3329.37	667.26
floors	2382.00	0.00	0.00
infiltration	0.00	1067.63	1941.14
internalLoads	0.00	3320.00	800.00
skylights	0.00	0.00	0.00
ventilation	0.00	0.00	0.00
windows	204.00	2925.42	0.00
winterHumidification	0.00	0.00	0.00
Totals	-	15047.11	3408.40



Heating Loads

Name	Area	Heat Loss
AEDExcursion	0.00	0.00
aboveGradeWalls	1380.00	3498.30
belowGradeWalls	0.00	0.00
blowerMotor	0.00	0.00
ceilings	2382.00	2043.76
doors	144.00	2190.24
ducts	0.00	5198.40
floors	2382.00	9479.81
infiltration	0.00	4898.52
internalLoads	0.00	0.00
skylights	0.00	0.00
ventilation	0.00	0.00
windows	204.00	3182.40
winterHumidification	0.00	0.00
Totals	-	30491.43

AED Graph



Approved ACCA MJ8 Calculations

Calculations are based on the ACCA Manual J 8th Edition and are approved by ACCA. All computed calculations are estimates on building use, weather data, and inputted values such a R-Values, window types, duct loss, etc. Equipment selections should meet both the latent and sensible gain as well as building heat loss. See Cool Calc Manual S Report for equipment sizing verification.

COMPONENT LOADS

Above Grade Walls

Construction Nr.	Exposure	Area	Heating HTM	Cooling HTM	Heating BTU	Sensible BTU	Latent BTU
12F-0s w	N	99.00	2.54	0.99	250.97	98.46	0.00
12F-0s w	N	54.00	2.54	0.99	136.89	53.70	0.00
12F-0s w	W	150.00	2.54	0.99	380.25	149.18	0.00
12F-0s w	E	204.00	2.54	0.99	517.14	202.88	0.00
12F-0s w	W	162.00	2.54	0.99	410.67	161.11	0.00
12F-0s w	N	99.00	2.54	0.99	250.97	98.46	0.00
12F-0s w	S	90.00	2.54	0.99	228.15	89.51	0.00
12F-0s w	W	114.00	2.54	0.99	288.99	113.37	0.00
12F-0s w	E	150.00	2.54	0.99	380.25	149.18	0.00
12F-0s w	S	126.00	2.54	0.99	319.41	125.31	0.00
12F-0s w	S	54.00	2.54	0.99	136.89	53.70	0.00
12F-0s w	W	78.00	2.54	0.99	197.73	77.57	0.00

Below Grade Walls

(none)

Blower Motor

(none)

Ceilings

Construction Nr.	Area	Heating HTM	Cooling HTM	Heating BTU	Sensible BTU	Latent BTU
16DR-44 ml	252.00	0.86	0.66	216.22	166.32	0.00
16DR-44 ml	180.00	0.86	0.66	154.44	118.80	0.00
16DR-44 ml	948.00	0.86	0.66	813.38	625.68	0.00
16DR-44 ml	48.00	0.86	0.66	41.18	31.68	0.00
16DR-44 ml	234.00	0.86	0.66	200.77	154.44	0.00
16DR-44 ml	196.00	0.86	0.66	168.17	129.36	0.00
16DR-44 ml	324.00	0.86	0.66	277.99	213.84	0.00
16DR-44 ml	80.00	0.86	0.66	68.64	52.80	0.00
16DR-44 ml	120.00	0.86	0.66	102.96	79.20	0.00

Doors

Construction Nr.	Exposure	Area	Heating HTM	Cooling HTM	Heating BTU	Sensible BTU	Latent BTU
11	N	24.00	15.21	10.14	365.04	243.36	0.00
11	N	24.00	15.21	10.14	365.04	243.36	0.00
11	N	24.00	15.21	10.14	365.04	243.36	0.00
11	S	24.00	15.21	10.14	365.04	243.36	0.00
11	S	24.00	15.21	10.14	365.04	243.36	0.00
11	S	24.00	15.21	10.14	365.04	243.36	0.00

Ducts

EHLF	ESGF	ELG	Heating BTU	Sensible BTU	Latent BTU
0.21	0.28	667.26	0.00	0.00	0.00

Floors

Construction Nr.	Area	Heating HTM	Heating BTU	Sensible BTU	Latent BTU
22C-5ph	252.00	49.37	740.61	0.00	0.00
22C-5ph	180.00	49.37	1382.47	0.00	0.00
22C-5ph	948.00	49.37	2468.70	0.00	0.00
22C-5ph	48.00	49.37	0.00	0.00	0.00
22C-5ph	234.00	49.37	740.61	0.00	0.00
22C-5ph	196.00	49.37	1382.47	0.00	0.00
22C-5ph	324.00	49.37	1777.46	0.00	0.00
22C-5ph	80.00	49.37	493.74	0.00	0.00
22C-5ph	120.00	49.37	493.74	0.00	0.00

Infiltration

NCFM Heating	NCFM Cooling	Heating BTU	Sensible BTU	Latent BTU
114.34	57.17	4898.52	1067.63	1941.14

Internal Loads

Heating BTU	Sensible BTU	Latent BTU
0.00	920.00	800.00
0.00	2400.00	0.00

Ventilation

(none)

Windows

Construction Nr.	Exposure	Area	Heating HTM	Heating BTU	Sensible BTU Avg.	Sensible BTU Peak	Latent BTU
4C	N	12.00	15.60	187.20	110.74	139.08	0.00
4C	N	12.00	15.60	187.20	110.74	139.08	0.00
4C	W	12.00	15.60	187.20	221.08	441.65	0.00
4C	E	6.00	15.60	93.60	97.54	189.75	0.00
4C	E	24.00	15.60	374.40	390.17	759.01	0.00
4C	E	36.00	15.60	561.60	585.25	1138.51	0.00
4C	W	6.00	15.60	93.60	110.54	220.83	0.00
4C	W	12.00	15.60	187.20	221.08	441.65	0.00
4C	N	12.00	15.60	187.20	110.74	139.08	0.00
4C	S	12.00	15.60	187.20	110.10	180.03	0.00
4C	W	12.00	15.60	187.20	221.08	441.65	0.00
4C	E	12.00	15.60	187.20	195.08	379.50	0.00
4C	S	12.00	15.60	187.20	110.10	180.03	0.00
4C	S	12.00	15.60	187.20	110.10	180.03	0.00
4C	W	12.00	15.60	187.20	221.08	441.65	0.00

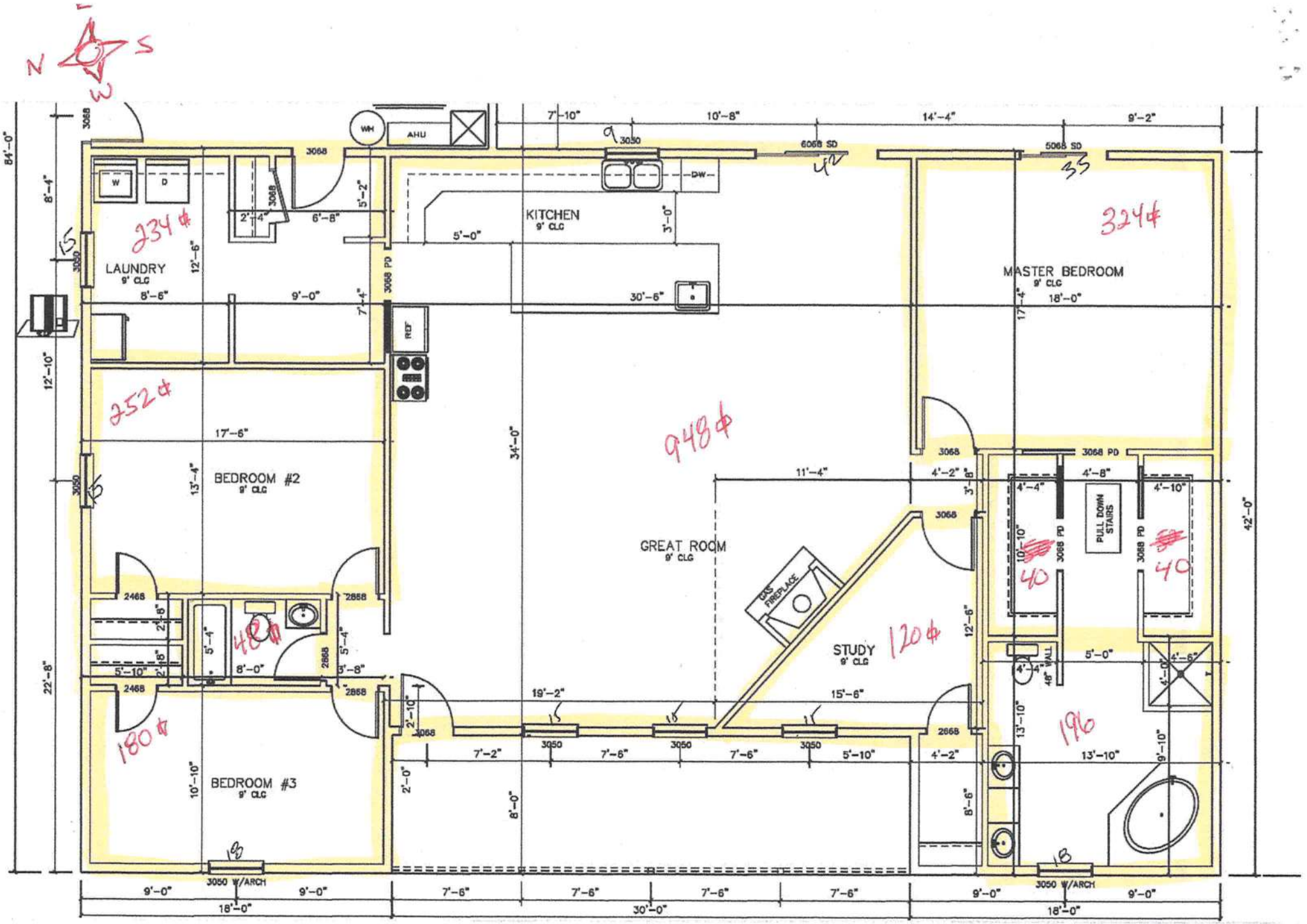
Winter Humidification

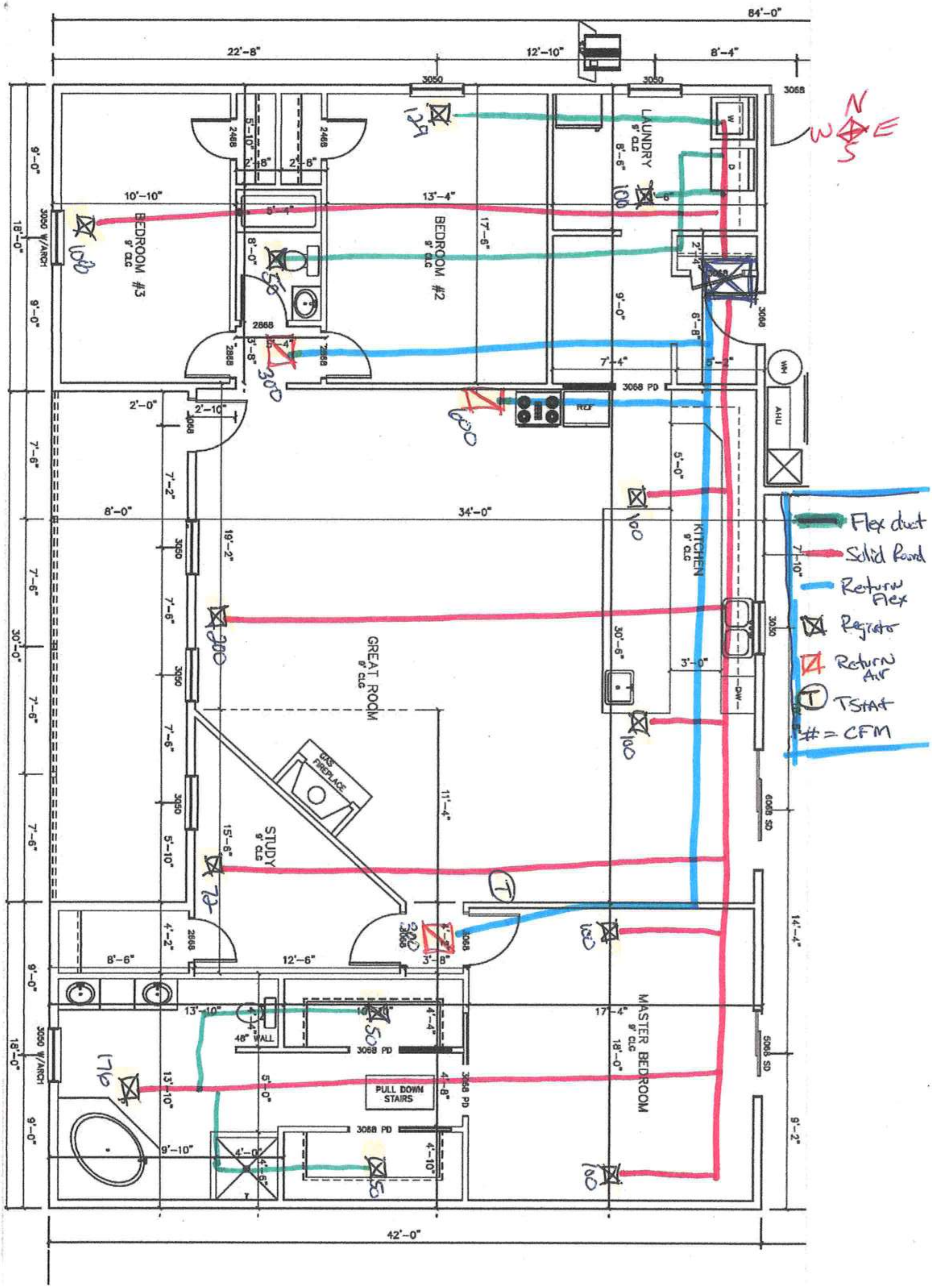
(none)

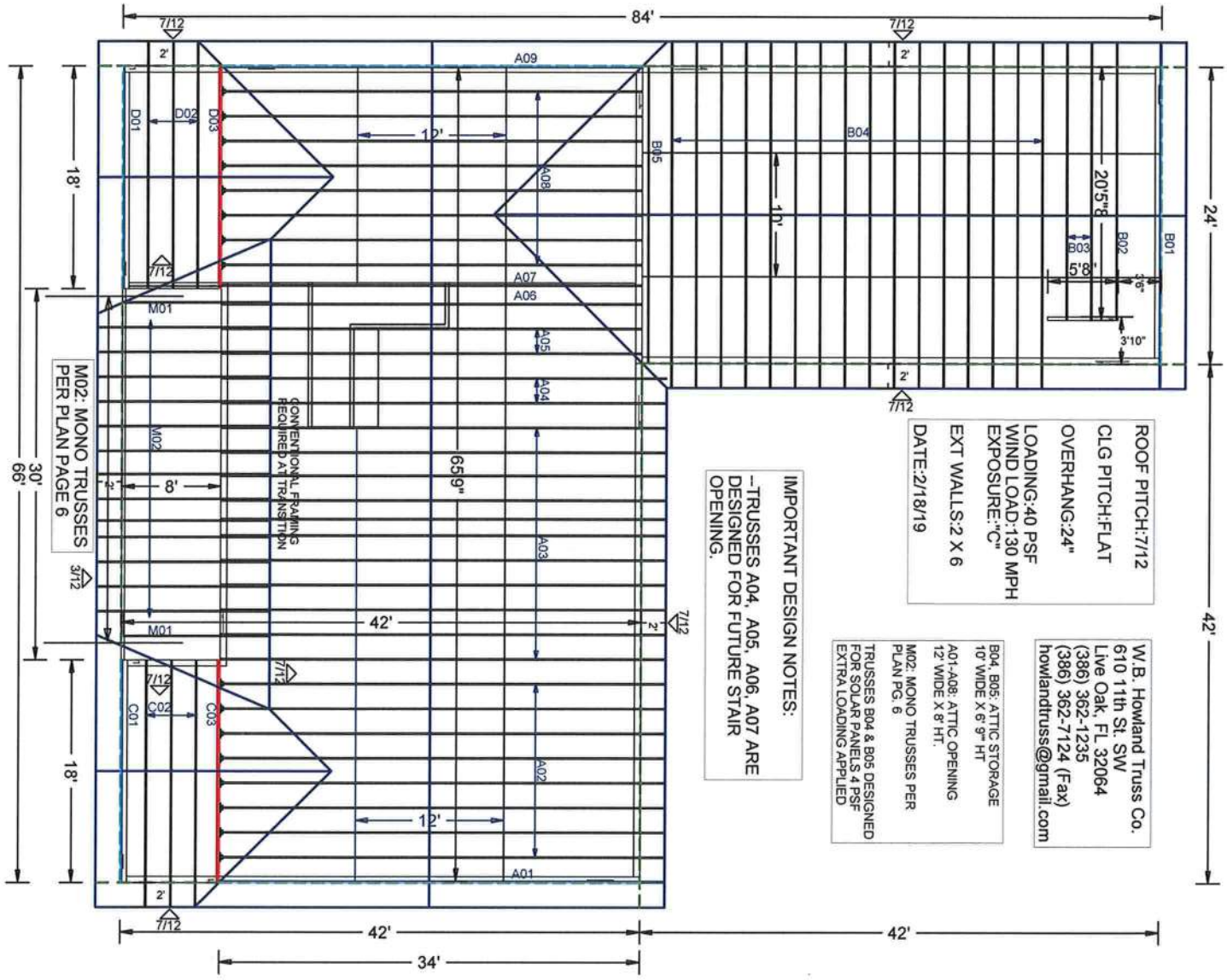
Project Name: Madero House
Address: 449 Southwest Madison Court, Lake City, FL
FormType: HVAC System
HVAC System Name: Heat Pump

ROOM LOADS

Room Name	Heating	Sensible	Latent	Cooling	CFM
Bedroom #2	2583.12	901.82	151.65	1053.47	45.00
Bedroom #3	4228.82	1492.42	283.08	1775.51	67.00
Great Room	8192.70	3795.74	505.50	4301.24	191.00
Guest Bathroom	49.65	40.68	0.00	40.68	2.00
Laundry Room	2564.50	886.57	151.65	1038.22	44.00
Mast Bathroom	4245.37	1484.80	283.08	1767.88	67.00
Mast Bedroom	5320.03	1631.54	363.96	1995.50	74.00
Mast Closet	1816.30	698.96	101.10	800.06	35.00
Study	1490.95	710.86	101.10	811.96	35.00


N
S
W
LAUNDRY
9' CLG
KITCHEN
9' CLG
MASTER BEDROOM
9' CLG
BEDROOM #2
9' CLG
GREAT ROOM
9' CLG
STUDY
9' CLG
BEDROOM #3
9' CLG
PULL DOWN STAIRS
GAS FIREPLACE
WH
AHU
REF
DW
3050 W/ARCH
3050 W/ARCH
234 ft
324 ft
252 ft
948 ft
48 ft
120 ft
180 ft
40
40
19
84'-0"
42'-0"
22'-8"
12'-10"
30'-0"
18'-0"
18'-0"


84'-0"
22'-8"
12'-10"
8'-4"
3050
3068
N
W
E
S
LAUNDRY
9' CLG
8'-6"
BEDROOM #3
9' CLG
BEDROOM #2
9' CLG
10'-10"
13'-4"
17'-6"
2868
3068 PD
WH
AHU
KITCHEN
9' CLG
GREAT ROOM
9' CLG
GAS FIREPLACE
STUDY
9' CLG
34'-0"
8'-0"
19'-2"
30'-6"
3'-0"
DW
6068 SD
11'-4"
15'-6"
12'-6"
14'-4"
MASTER BEDROOM
9' CLG
18'-0"
17'-4"
48" WALL
PULL DOWN STAIRS
3068 PD
5068 SD
3050 W/ARCH
9'-10"
9'-2"
42'-0"
Flex duct
Solid Round
Return Flex
Register
Return Air
TStat
= CFM
129
100
100
50
300
600
100
200
100
70
200
100
50
170
50
100



ROOF PITCH:7/12
CLG PITCH:FLAT
OVERHANG:24"
LOADING:40 PSF
WIND LOAD:130 MPH
EXPOSURE:"C"
EXT WALLS:2 X 6
DATE:2/18/19

IMPORTANT DESIGN NOTES:
--TRUSSES A04, A05, A06, A07 ARE DESIGNED FOR FUTURE STAIR OPENING.

B04, B05: ATTIC STORAGE
10' WIDE X 6' 9" HT
A01-A08: ATTIC OPENING
12' WIDE X 8' HT.
M02: MONO TRUSSES PER PLAN PG. 6
TRUSSES B04 & B05 DESIGNED FOR SOLAR PANELS 4 PSF EXTRA LOADING APPLIED

W.B. Howland Truss Co.
610 11th St. SW
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (Fax)
howlandtruss@gmail.com

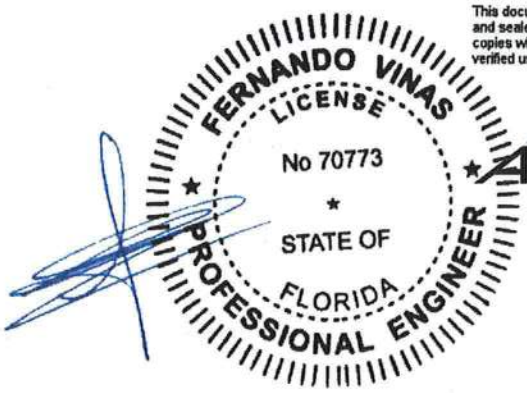
PAGE NO: 1 OF 1

JOB NO: 19-2924

Job Name: Mark Madero
Customer: OWNER BUILDER
Designer: Lynn Bell
ADDRESS: 449 SW Madison Ct
SALESMAN: HOUSE
: <Not Found>

JOB #: 19-2924

HOWLAND



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ALPINE
AN ITW COMPANY

#0-278
03/04/2019

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:* 19-2924
Job Description: /Mark Madero /OWNER BUILDER	
Address: 449 SW Madison Ct, LAKE CITY, FL 32055	

Job Engineering Criteria:	
Design Code: FBC2017RES	*View Version:* 18.02.00.1126.20 *JRef #:* 1WJ12150002
Wind Standard: ASCE7_10 *Wind Speed (mph):* 130.000000	*Roof Load (pdf):* 20.00-10.00- 0.00-10.00 *Floor Load (psf):* None

This package contains general notes pages, 22 truss drawing(s) and 3 detail(s).

Item	Seal #	Truss
1	063.19.0847.30433	A01
3	063.19.0847.52590	A03
5	063.19.0848.01697	A05
7	063.19.0848.10787	A07
9	063.19.0849.02963	A09
11	063.19.0849.29293	B02
13	063.19.0849.58420	B04
15	063.19.0905.50587	C01
17	063.19.0906.03577	C03
19	063.19.0906.08763	D02
21	063.19.0906.22587	M01

Item	Seal #	Truss
2	063.19.0847.47007	A02
4	063.19.0847.57540	A04
6	063.19.0848.05777	A06
8	063.19.0848.26550	A08
10	063.19.0849.06633	B01
12	063.19.0849.42023	B03
14	063.19.0905.44263	B05
16	063.19.0905.52897	C02
18	063.19.0906.06277	D01
20	063.19.0906.18840	D03
22	063.19.0906.27043	M02

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)

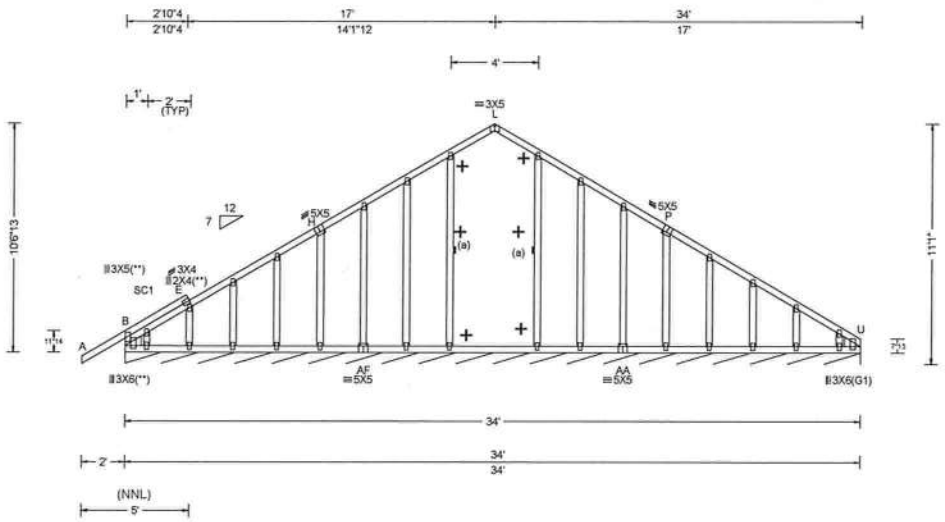
Key to Terms:
Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written 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: 537199 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A01	Cust: R 215 JRef: 1WJ12150002 T24 DrwNo: 063.19.0847.30433 KD / FV 03/04/2019	



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: 0 to h/2
C&C Dist a: 3.40 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.009	L	999	480
VERT(CL): 0.011	L	999	360
HORZ(LL): 0.007	N	-	-
HORZ(TL): 0.009	N	-	-

Creep Factor: 2.0
Max TC CSI: 0.338
Max BC CSI: 0.103
Max Web CSI: 0.143

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U*	87	/-	/-	/47	/15	/9

Wind reactions based on MWFRS
U Brg Width = 408 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.
B - E	143	-408

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2:
:Lt Stub Wedge 2x6 SP #2::Rt Stub Wedge 2x6 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 2X4 except as noted.

Plates extending outside the truss perimeter shall be positioned within the tolerance specified on the plate placement polygon only, without use of TPI 1-2007 section 3.7.2.2 alternate positioning. Steel extending above the top chord or below the bottom chord may be trimmed or folded along the outer edge of that chord. Steel extending elsewhere beyond outermost truss members may be folded.

(**) 3 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.

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished by others.

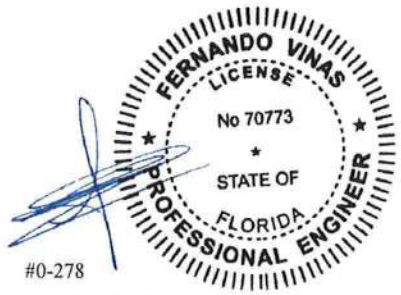
Additional Notes

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 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 3x6.

The overall height of this truss excluding overhang is 10-6-13.



#0-278

03/04/2019

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

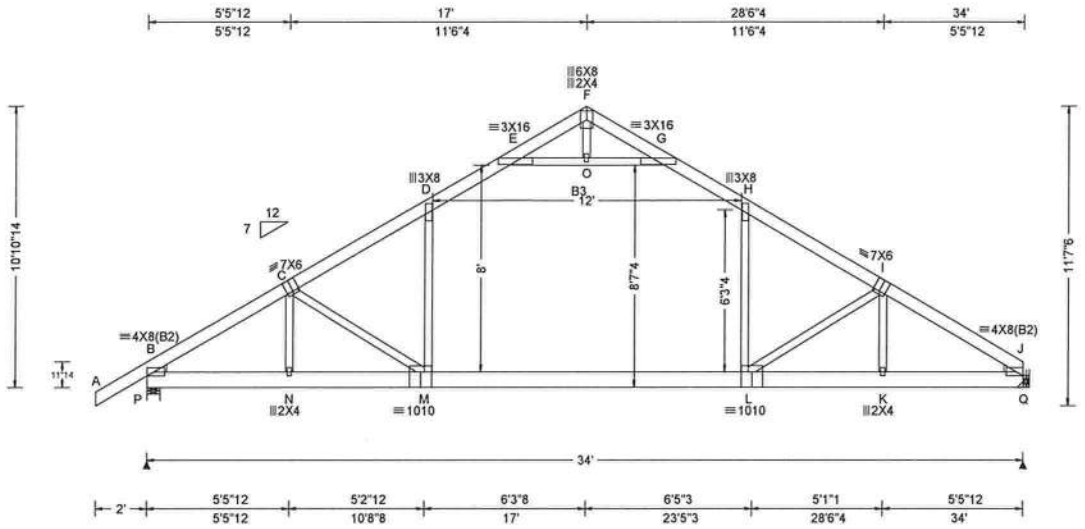
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. 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 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.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 614816 ATIC FROM: CDM	Ply: 1 Qty: 8	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A02	Cust: R 215 JRef: 1WJ12150002 T16 DrwNo: 063.19.0847.47007 KD / FV 03/04/2019



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: 0 to h/2
C&C Dist a: 3.40 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.403	L	999	480
VERT(CL): 0.863	L	469	360
HORZ(LL): 0.207	D	-	-
HORZ(TL): 0.458	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.872
Max BC CSI: 0.583
Max Web CSI: 0.578

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	2400	/-	/-	/936	/267	/298
Q	2255	/-	/-	/819	/230	/-

Wind reactions based on MWFRS
P Brg Width = 6.0 Min Req = 2.0
Q Brg Width = - Min Req = -
Bearing P 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	577	-3471	F - G	619	-47
C - D	545	-3432	G - H	518	-2593
D - E	518	-2595	H - I	547	-3437
E - F	616	-46	I - J	592	-3505

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	2893	-424	L - K	2939	-442
N - M	2896	-424	K - J	2935	-442
M - L	2702	-250			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - C	111	-518	O - G	684	-3575
C - M	212	-383	H - L	1335	-97
M - D	1324	-91	L - I	236	-436
E - O	684	-3575	I - K	134	-509
F - O	584	-98			

Lumber

Top chord 2x6 SP M-31
Bot chord 2x8 SP 2400f-2.0E :B3 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

Hangers / Ties

(J) Hanger Support Required, by others

Loading

Attic room loading from 11-0-0 to 23-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

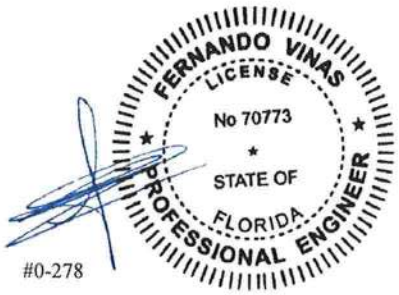
Wind

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 10-10-14.



#0-278

03/04/2019

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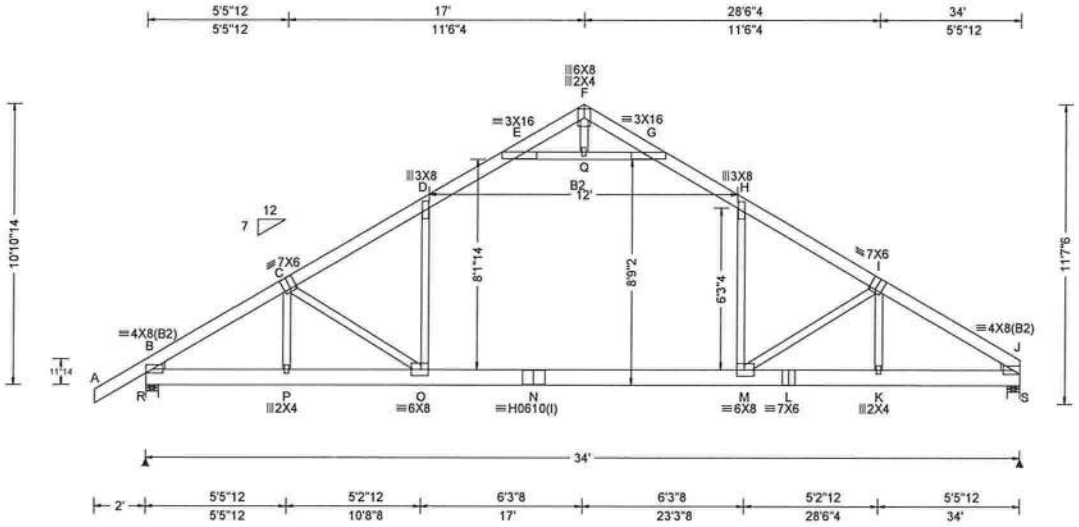
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, 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.**

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

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

SEQN: 614818 ATIC FROM: CDM	Ply: 1 Qty: 11	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A03	Cust: R 215 JRef: 1WJ12150002 T20 DrwNo: 063.19.0847.52590 KD / FV 03/04/2019



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: 0 to h/2
C&C Dist a: 3.40 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.447	M	906	480
VERT(CL): 0.936	M	432	360
HORZ(LL): 0.235	D	-	-
HORZ(TL): 0.504	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.946
Max BC CSI: 0.588
Max Web CSI: 0.584

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
R	2401	/-	/-	/936	/267	/298
S	2256	/-	/-	/819	/229	/-

Wind reactions based on MWFRS
R Brg Width = 6.0 Min Req = 2.0
S Brg Width = 6.0 Min Req = 1.9
Bearings R & S 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	579	-3479	F - G	759	-78
C - D	542	-3421	G - H	515	-2573
D - E	515	-2574	H - I	544	-3425
E - F	756	-77	I - J	594	-3512

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - P	2902	-425	M - L	2946	-444
P - O	2906	-426	L - K	2946	-444
O - N	2678	-245	K - J	2943	-444
N - M	2678	-245			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - C	113	-516	Q - G	721	-3760
C - O	220	-419	H - M	1351	-100
O - D	1342	-94	M - I	245	-467
E - Q	721	-3760	I - K	137	-508
F - Q	661	-114			

Lumber

Top chord 2x6 SP M-31
Bot chord 2x8 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

Loading

Attic room loading from 11-0-0 to 23-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 10-10-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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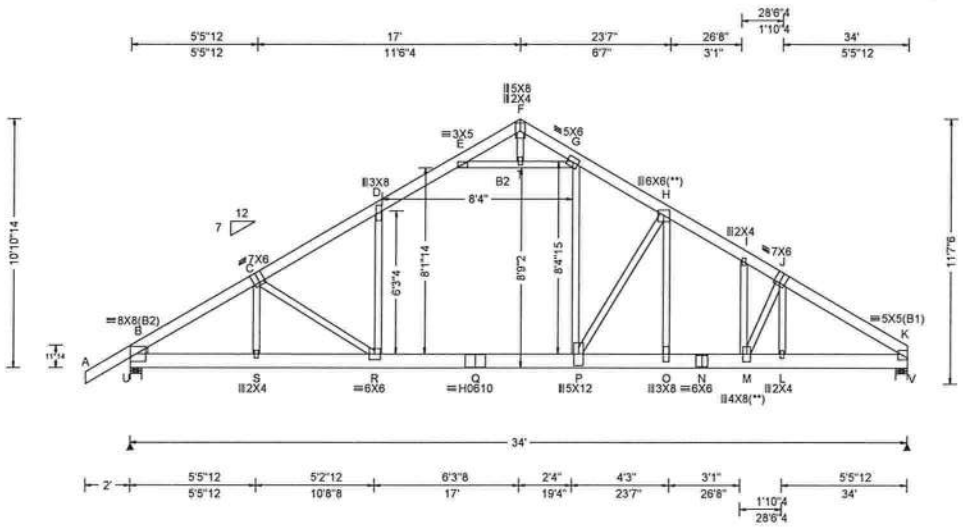
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 614796 ATIC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A04	Cust: R 215 JRef: 1WJ12150002 T7 DrwNo: 063.19.0847.57540 KD / FV 03/04/2019



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: 3.40 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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.272	R	999	480
VERT(CL): 0.565	R	716	360
HORZ(LL): 0.141	D	-	-
HORZ(TL): 0.301	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.442
Max BC CSI: 0.538
Max Web CSI: 0.584

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
U	2295	/-	/-	/936	/25	/298
V	2075	/-	/-	/819	/15	/-

Wind reactions based on MWFRS
U Brg Width = 6.0 Min Req = 1.9
V Brg Width = 6.0 Min Req = 1.7
Bearings U & V 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	421	-3330	G - H	462	-2945
C - D	378	-3044	H - I	451	-3001
D - E	398	-2536	I - J	442	-3026
E - F	96	-488	J - K	420	-3124

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - S	2794	-301	O - N	2583	-227
S - R	2795	-301	N - M	2583	-227
R - Q	2437	-151	M - L	2571	-289
Q - P	2437	-151	L - K	2569	-289
P - O	2583	-227			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - R	182	-525	T - G	397	-2361
R - D	720	-30	G - P	1503	-173
E - T	395	-2347	P - H	246	-474
F - T	545	-81			

Lumber

Top chord 2x6 SP M-31
Bot chord 2x8 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3:

Plating Notes

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

Loading

Attic room loading from 11-0-0 to 19-4-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 10-10-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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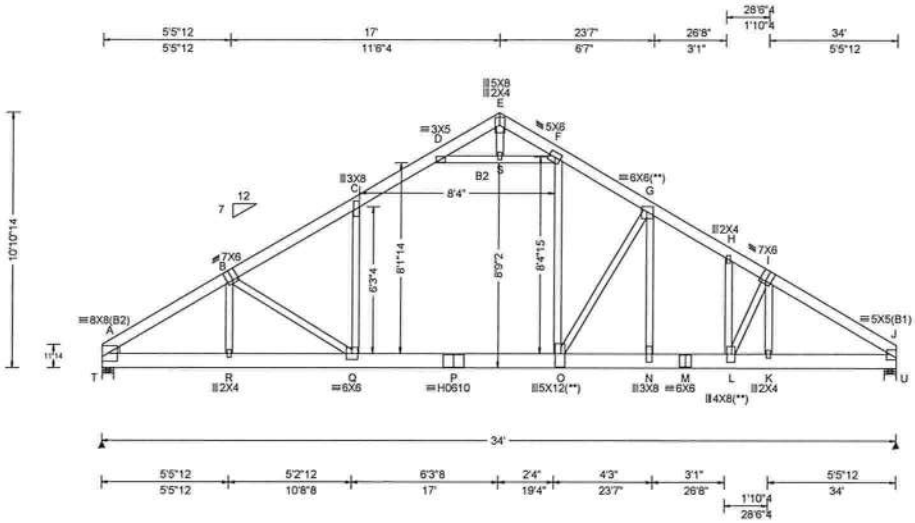
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 614805 ATIC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A05	Cust: R 215 JRef: 1WJ12150002 T13 DrwNo: 063.19.0848.01697 KD / FV 03/04/2019	



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: 15.04 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.40 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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.275	Q	999	480
VERT(CL): 0.570	Q	710	360
HORZ(LL): 0.143	C	-	-
HORZ(TL): 0.304	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.444
Max BC CSI: 0.543
Max Web CSI: 0.585

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
T	2155	/-	/-	/819	/16	/260
U	2079	/-	/-	/819	/16	/-

Wind reactions based on MWFRS
T Brg Width = 6.0 Min Req = 1.8
U Brg Width = 6.0 Min Req = 1.7
Bearings T & U 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	458	-3375	F - G	466	-2956
B - C	397	-3059	G - H	454	-3009
C - D	409	-2545	H - I	445	-3034
D - E	94	-486	I - J	423	-3132

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - R	2840	-324	N - M	2589	-231
R - Q	2841	-324	M - L	2589	-231
Q - P	2447	-155	L - K	2577	-292
P - O	2447	-155	K - J	2576	-292
O - N	2590	-231			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - Q	207	-569	S - F	405	-2374
Q - C	725	-22	F - O	1506	-174
D - S	403	-2360	O - G	251	-473
E - S	548	-83			

Lumber

Top chord 2x6 SP M-31
Bot chord 2x8 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3:

Plating Notes

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

Loading

Attic room loading from 11-0-0 to 19-4-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 10-10-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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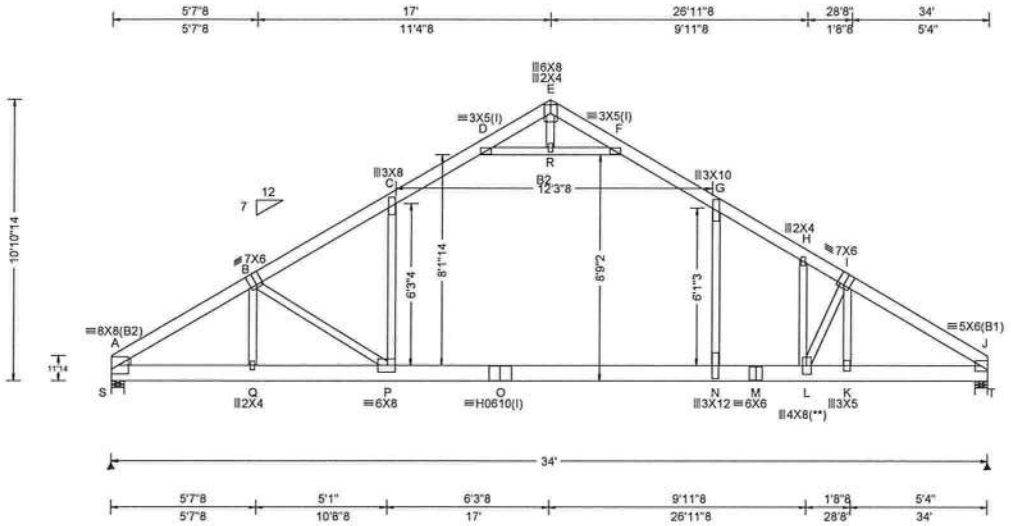
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 614849 ATIC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A06	Cust: R 215 JRef: 1WJ12150002 T5 DrwNo: 063.19.0848.05777 KD / FV 03/04/2019	



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: 15.04 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.40 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, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.514	N	788	480
VERT(CL): 1.093	N	370	360
HORZ(LL): -0.268	G	-	-
HORZ(TL): 0.594	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.978
Max BC CSI: 0.571
Max Web CSI: 0.701

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S	2270	/-	/-	/819	/16	/260
T	2284	/-	/-	/819	/16	/-

Wind reactions based on MWFRS
S Brg Width = 6.0 Min Req = 1.9
T Brg Width = 6.0 Min Req = 1.9
Bearings S & 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.
A - B	445	-3526	F - G	407	-2628
B - C	425	-3482	G - H	420	-3524
C - D	408	-2616	H - I	392	-3112
D - E	802	-62	I - J	413	-3427
E - F	814	-62			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - Q	2955	-317	N - M	2698	-172
Q - P	2959	-318	M - L	2698	-172
P - O	2727	-173	L - K	2823	-282
O - N	2727	-173	K - J	2826	-283

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - B	124	-559	R - F	558	-3868
B - P	216	-445	N - G	1644	-73
P - C	1377	-76	H - L	86	-1000
D - R	558	-3868	L - I	326	-624
E - R	678	-88	I - K	503	-180

Lumber

Top chord 2x6 SP M-31
Bot chord 2x8 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3:

Plating Notes

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

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

Loading

Attic room loading from 11-0-0 to 23-3-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 10-10-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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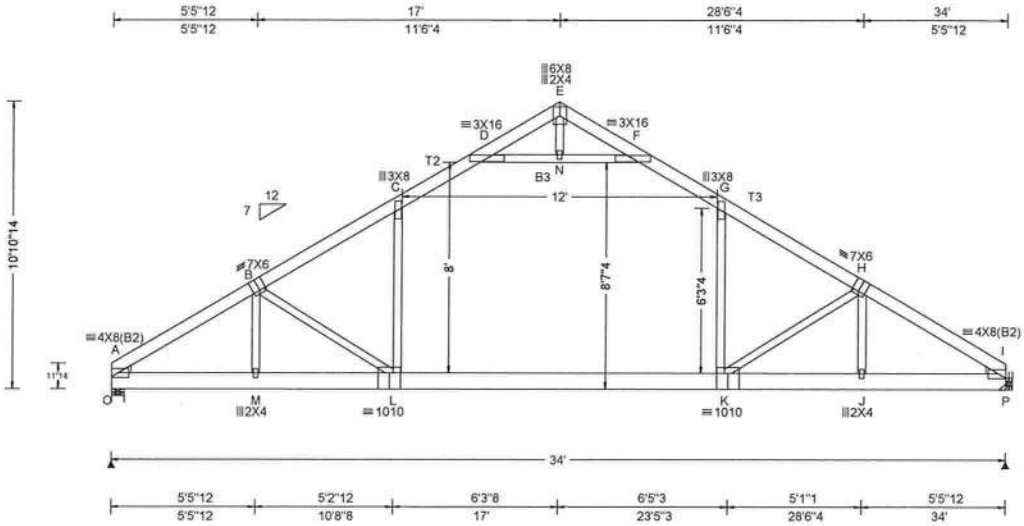
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinsl.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 614820 ATIC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A07	Cust: R 215 JRef: 1WJ12150002 T2 DrwNo: 063.19.0848.10787 KD / FV 03/04/2019	



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: 15.04 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.40 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.410	K	986	480
VERT(CL): 0.881	K	459	360
HORZ(LL): 0.209	C	-	-
HORZ(TL): 0.464	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.877
Max BC CSI: 0.583
Max Web CSI: 0.574

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	2260	/-	/-	/819	/231	/260
P	2260	/-	/-	/819	/231	/-

Wind reactions based on MWFRS
O Brg Width = 6.0 Min Req = 1.9
P Brg Width = - Min Req = -
Bearing O 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.
A - B	591	-3477	E - F	624	-48
B - C	552	-3443	F - G	522	-2603
C - D	522	-2603	G - H	552	-3443
D - E	624	-48	H - I	591	-3477

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - M	2907	-440	K - J	2912	-441
M - L	2911	-441	J - I	2908	-440
L - K	2712	-255			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
M - B	114	-533	N - F	691	-3596
B - L	226	-404	G - K	1326	-97
L - C	1326	-97	K - H	226	-422
D - N	691	-3596	H - J	131	-532
E - N	587	-99			

Lumber

Top chord 2x6 SP #2 :T2, T3 2x6 SP M-31:
Bot chord 2x8 SP 2400f-2.0E :B3 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

Loading

Attic room loading from 11-0-0 to 23-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 10-10-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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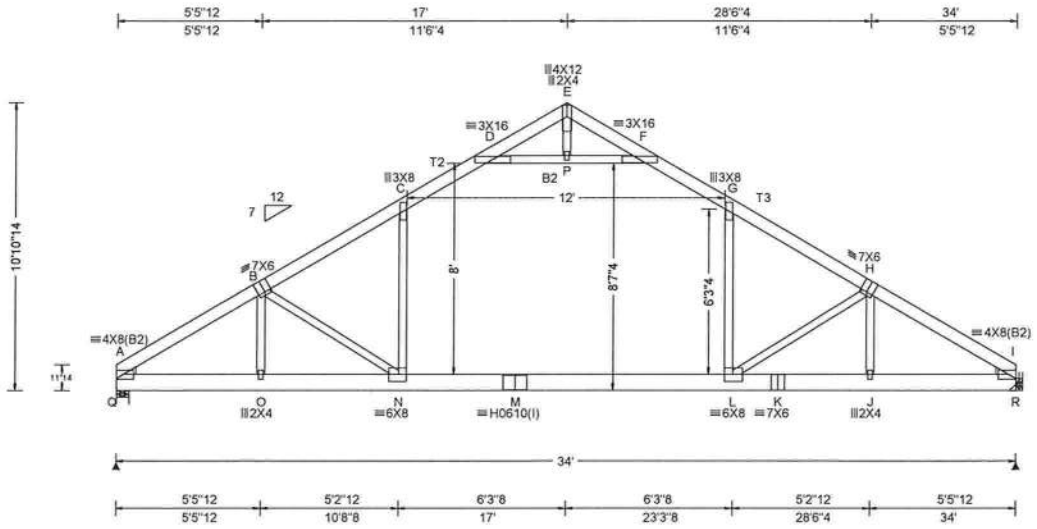
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 614808 ATIC FROM: CDM	Ply: 1 Qty: 8	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A08	Cust: R 215 JRef: 1WJ12150002 T19 DrwNo: 063.19.0848.26550 KD / FV 03/04/2019



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: 15.04 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.40 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.412	N	983	480
VERT(CL): 0.881	N	459	360
HORZ(LL): 0.210	C	-	-
HORZ(TL): 0.464	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.879
Max BC CSI: 0.575
Max Web CSI: 0.575

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q	2260	/-	/-	/819	/231	/260
R	2260	/-	/-	/819	/231	/-

Wind reactions based on MWFRS
Q Brg Width = 6.0 Min Req = 1.9
R Brg Width = - Min Req = -
Bearing Q 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.
A - B	591	-3476	E - F	624	-48
B - C	552	-3447	F - G	522	-2606
C - D	522	-2606	G - H	552	-3446
D - E	625	-48	H - I	591	-3475

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - O	2907	-440	L - K	2910	-441
O - N	2910	-441	K - J	2910	-441
N - M	2716	-255	J - I	2906	-441
M - L	2716	-255			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
O - B	114	-541	P - F	691	-3601
B - N	226	-403	G - L	1327	-97
N - C	1329	-97	L - H	227	-422
D - P	691	-3601	H - J	132	-542
E - P	587	-99			

Lumber

Top chord 2x6 SP #2 :T2, T3 2x6 SP M-31:
Bot chord 2x8 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3
:Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3:

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

Loading

Attic room loading from 11-0-0 to 23-0-0: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

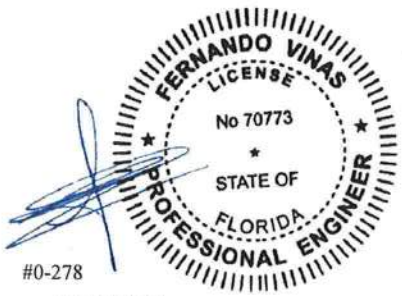
Wind

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 10-10-14.



#0-278

03/04/2019

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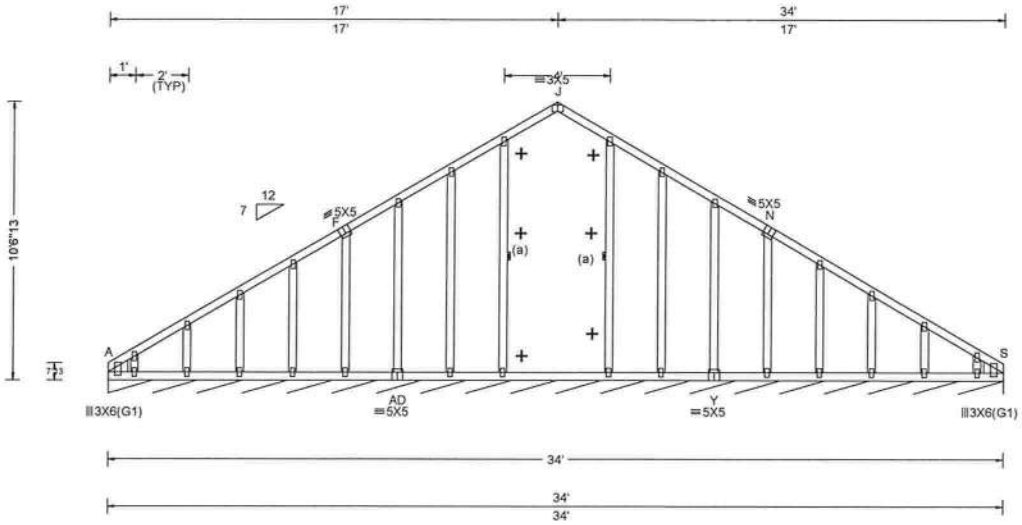
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537197 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** A09	Cust: R 215 JRef: 1WJ12150002 T23 DrwNo: 063.19.0849.02963 KD / FV 03/04/2019	



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: 0 to h/2
C&C Dist a: 3.40 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.009	J	999	480
VERT(CL): 0.011	J	999	360
HORZ(LL): 0.007	L	-	-
HORZ(TL): 0.009	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.094
Max BC CSI: 0.103
Max Web CSI: 0.143

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
S*	83	/-	/-	/44	/14	/8

Wind reactions based on MWFRS
S Brg Width = 408 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
Webs 2x4 SP #3
:Lt Stub Wedge 2x6 SP #2::Rt Stub Wedge 2x6 SP #2:

Bracing

(a) Continuous lateral restraint equally spaced on member.

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

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

The overall height of this truss excluding overhang is 10-6-13.

+ Member to be laterally braced for horizontal wind loads. bracing system to be desiged and furnished by others.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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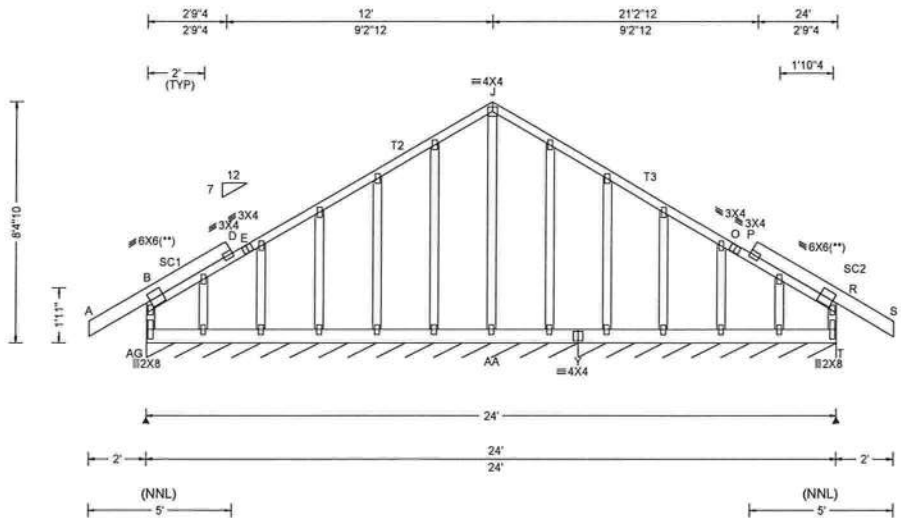
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 614845 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** B01	Cust: R 215 JRef: 1WJ12150002 T4 DrwNo: 063.19.0849.06633 KD / FV 03/04/2019	



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): 0.005 Q 999 480	Loc R+ / R- / Rh / Rw / U / RL
BCLL:	0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.007 D 999 360	AG*181 /- /- /91 /21 /32
BCDL:	10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.142 J - -	Y* 185 /- /- /102 /60 /-
Des Ld:	40.00	EXP: C Kzt: NA		HORZ(TL): 0.199 J - -	Wind reactions based on MWFRS
NCBCLL:	10.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0	AG Brg Width = 180 Min Req = -
Soffit:	2.00	TCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.382	Y Brg Width = 108 Min Req = -
Load Duration: 1.25		BCDL: 5.0 psf	TPI Std: 2014	Max BC CSI: 0.051	Bearings AG & Y are a rigid surface.
Spacing: 24.0 "		MWFRS Parallel Dist: 0 to h/2	Rep Fac: Varies by Ld Case	Max Web CSI: 0.680	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. Chords Tens. Comp.
		GCpi: 0.18	WAVE		E - J 688 -137 J - O 688 -138
		Wind Duration: 1.60		VIEW Ver: 18.02.00A.1126.20	

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
B -AG	427	-579	R - T	422	-579
J -AA	0	-613			

Lumber

Top chord 2x4 SP #2 :T2, T3 2x4 SP M-31:
Bot chord 2x6 SP 2400f-2.0E
Webs 2x4 SP #3
:Stack Chord SC1 2x6 SP #2:
:Stack Chord SC2 2x6 SP #2:

Bracing

Fasten rated sheathing to one face of this frame.

Plating Notes

All plates are 2X4 except as noted.

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

Loading

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 2.30 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched, unless specified otherwise.

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.

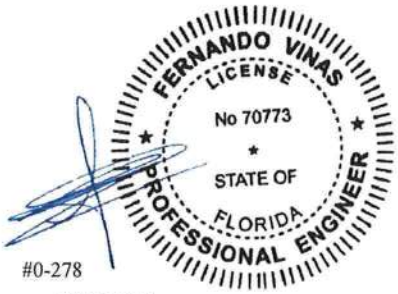
Additional Notes

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 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 3x6.

The overall height of this truss excluding overhang is 8-4-10.



#0-278

03/04/2019

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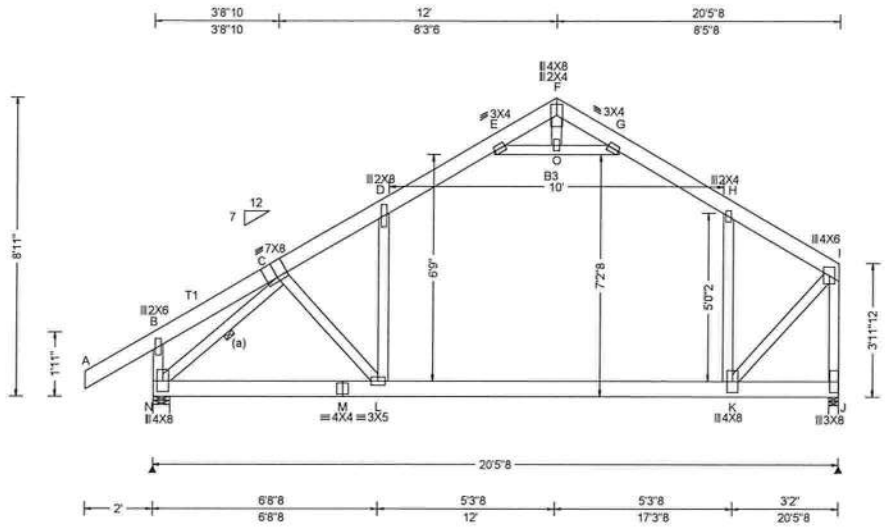
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537940 ATIC FROM: CDM Page 1 of 2	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** B02		Cust: R 215 JRef: 1WJ12150002 T21 DrwNo: 063.19.0849.29293 KD / FV 03/04/2019	



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: 36.0 "

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 6.50 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: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.278	L	883	480
VERT(CL): 0.600	L	409	360
HORZ(LL): 0.207	D	-	-
HORZ(TL): 0.451	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.658
Max BC CSI: 0.862
Max Web CSI: 0.763

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1951	/-	/-	/976	/456	/280
J	1905	/-	/-	/748	/377	/-

Wind reactions based on MWFRS
N Brg Width = 6.0 Min Req = 1.6
J Brg Width = 3.5 Min Req = 1.6
Bearings N & J 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.
C - D	356	- 1912	G - H	348	- 1518
D - E	311	- 1364	H - I	293	- 1617

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	1516	- 295	L - K	1346	- 251
M - L	1516	- 295			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - N	373	- 381	O - G	359	- 1569
N - C	409	- 2105	K - I	2002	- 372
L - D	782	- 32	I - J	428	- 2385
E - O	359	- 1569			

Lumber

Top chord 2x6 SP 2400f-2.0E :T1 2x6 SP #2:
Bot chord 2x6 SP M-31 :B3 2x4 SP #2:
Webs 2x4 SP #3

Bracing

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

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	30 plf at	-2.00 to	30 plf at	12.00
TC: From	60 plf at	-2.00 to	60 plf at	20.46
TC: From	12 plf at	0.00 to	12 plf at	12.00
TC: From	3 plf at	7.00 to	3 plf at	10.15
TC: From	42 plf at	12.00 to	42 plf at	20.46
TC: From	3 plf at	13.85 to	3 plf at	17.00
PLT: From	3 plf at	10.41 to	3 plf at	13.59
PLT: From	90 plf at	7.00 to	90 plf at	17.00
BC: From	7 plf at	-2.00 to	7 plf at	0.00
BC: From	30 plf at	0.00 to	30 plf at	20.46

BC: 15 lb Conc. Load at 7.00,17.00

Loading

Design Dead Loads based on material weight adjusted for slope: TC: 1.00 PSF

Purlins

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

Collar-tie braced with continuous lateral bracing at 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 maximum horizontal reaction is 280#

The overall height of this truss excluding overhang is 8-11-0.

WIND LOAD CASE MODIFIED!

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

****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 160A-Z for standard plate positions.

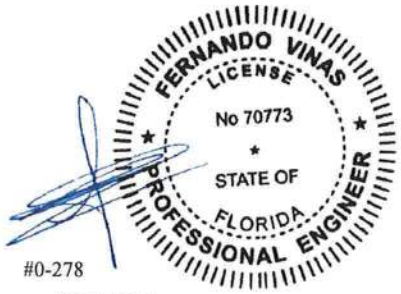
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, 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.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

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

SEQN: 537940 ATIC FROM: CDM Page 2 of 2	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** B02	Cust: R 215 JRef: 1WJ12150002 T21 DrwNo: ... / ... 03/04/2019

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



#0-278

03/04/2019

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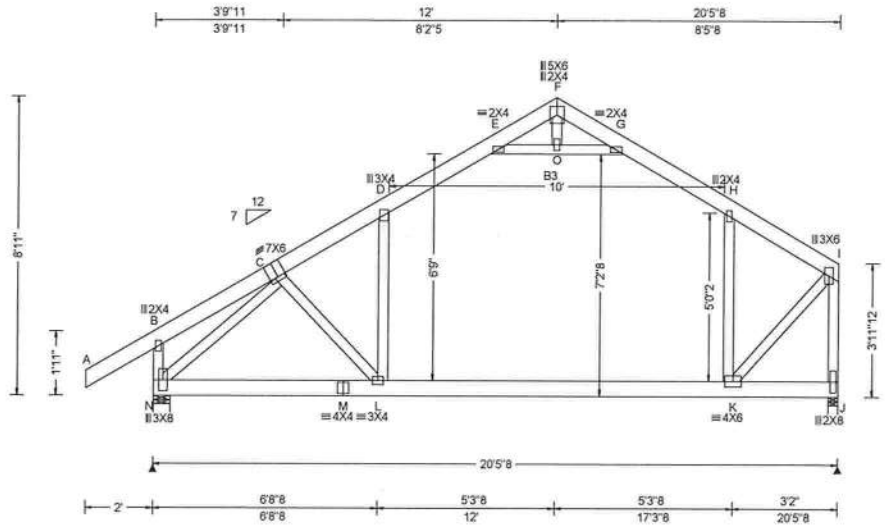
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537944 ATIC FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** B03	Cust: R 215 JRef: 1WJ12150002 T1 DrwNo: 063.19.0849.42023 KD / FV 03/04/2019	



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 4.50 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: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.225	L	999	480
VERT(CL): 0.486	L	504	360
HORZ(LL): 0.170	D	-	-
HORZ(TL): 0.369	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.915
Max BC CSI: 0.616
Max Web CSI: 0.640

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1300	/-	/-	/651	/304	/187
J	1269	/-	/-	/499	/252	/-

Wind reactions based on MWFRS
N Brg Width = 6.0 Min Req = 1.5
J Brg Width = 3.5 Min Req = 1.5
Bearings N & J 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.
C - D	235	- 1259	G - H	231	- 1003
D - E	209	- 917	H - I	199	- 1090

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	996	- 194	L - K	896	- 168
M - L	996	- 194			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - C	270	- 1391	O - G	244	- 1063
L - D	480	- 11	K - I	1334	- 249
E - O	244	- 1063	I - J	292	- 1614

Lumber

Top chord 2x6 SP #2
Bot chord 2x6 SP M-31 :B3 2x4 SP #2:
Webs 2x4 SP #3

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	20 plf at	-2.00 to	20 plf at	12.00
TC: From	40 plf at	-2.00 to	40 plf at	20.46
TC: From	8 plf at	0.00 to	8 plf at	12.00
TC: From	2 plf at	7.00 to	2 plf at	9.98
TC: From	28 plf at	12.00 to	28 plf at	20.46
TC: From	2 plf at	14.02 to	2 plf at	17.00
PLT: From	2 plf at	10.41 to	2 plf at	13.59
PLT: From	60 plf at	7.00 to	60 plf at	17.00
BC: From	5 plf at	-2.00 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	20.46

BC: 10 lb Conc. Load at 7.00,17.00

Loading

Design Dead Loads based on material weight adjusted for slope: TC: 1.00 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

Right end vertical not exposed to wind pressure.

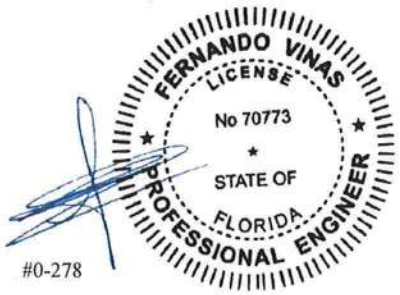
Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8-11-0.

WIND LOAD CASE MODIFIED!

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



#0-278

03/04/2019

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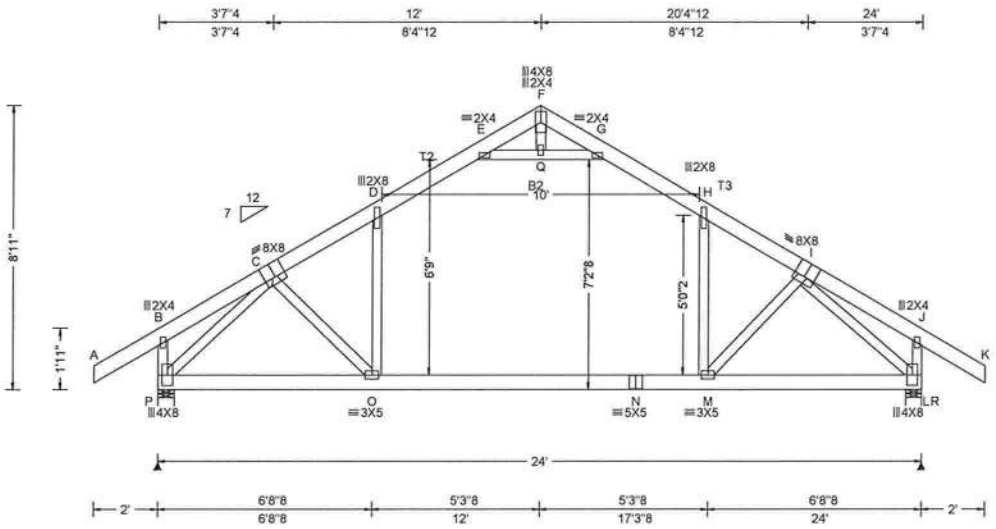
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537493 ATIC FROM: CDM	Ply: 1 Qty: 16	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** B04	Cust: R 215 JRef: 1WJ12150002 T10 DrwNo: 063.19.0849.58420 KD / FV 03/04/2019	



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: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.125	M	999	480
VERT(CL): 0.294	M	978	360
HORZ(LL): 0.088	D	-	-
HORZ(TL): 0.209	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.546
Max BC CSI: 0.592
Max Web CSI: 0.918

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
P	1649	/-	/-	/705	/324	/238
R	1649	/-	/-	/705	/324	/-

Wind reactions based on MWFRS
P Brg Width = 6.0 Min Req = 1.5
R Brg Width = 6.0 Min Req = 1.5
Bearings P & R 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.
C - D	299	-1875	G - H	274	-1422
D - E	274	-1422	H - I	299	-1876

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
P - O	1418	-234	N - M	1422	-229
O - N	1422	-229	M - L	1419	-234

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
P - C	328	-1994	Q - G	334	-1884
O - D	668	-32	H - M	690	-27
E - Q	334	-1884	I - L	328	-1995
F - Q	425	-74			

Lumber

Top chord 2x6 SP #2 :T2, T3 2x6 SP 2400f-2.0E:
Bot chord 2x6 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	23 plf at	-2.00 to	23 plf at	26.00
TC: From	40 plf at	-2.00 to	40 plf at	26.00
TC: From	8 plf at	0.00 to	8 plf at	24.00
TC: From	2 plf at	7.00 to	2 plf at	9.98
TC: From	2 plf at	14.02 to	2 plf at	17.00
PLT: From	2 plf at	10.41 to	2 plf at	13.59
PLT: From	80 plf at	7.00 to	80 plf at	17.00
BC: From	5 plf at	-2.00 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	24.00
BC: From	5 plf at	24.00 to	5 plf at	26.00

BC: 10 lb Conc. Load at 7.00,17.00

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

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

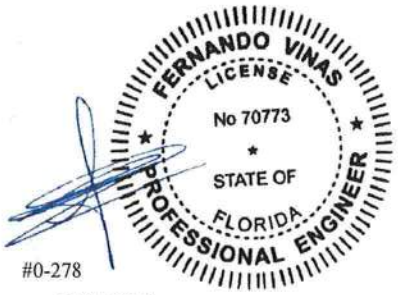
Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 8-11-0.

WIND LOAD CASE MODIFIED!

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



#0-278

03/04/2019

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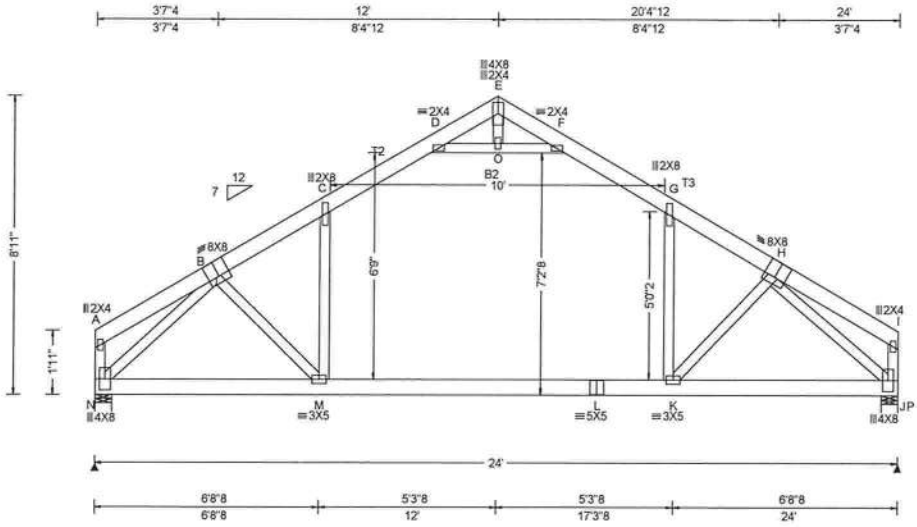
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537495 ATIC FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** B05	Cust: R 215 JRef: 1WJ12150002 T14 DrwNo: 063.19.0905.44263 KD / FV 03/04/2019	



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: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.128	K	999	480
VERT(CL): 0.301	K	955	360
HORZ(LL): 0.090	C	-	-
HORZ(TL): 0.213	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.552
Max BC CSI: 0.594
Max Web CSI: 0.946

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1513	/-	/-	/659	/281	/178
P	1513	/-	/-	/659	/281	/-

Wind reactions based on MWFRS
N Brg Width = 6.0 Min Req = 1.5
P Brg Width = 6.0 Min Req = 1.5
Bearings N & P 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	309	-1907	F - G	278	-1439
C - D	278	-1440	G - H	309	-1908

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
N - M	1466	-249	L - K	1442	-235
M - L	1442	-235	K - J	1467	-249

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - B	347	-2055	O - F	342	-1916
M - C	696	-35	G - K	718	-35
D - O	342	-1916	H - J	347	-2056
E - O	432	-76			

Lumber

Top chord 2x6 SP #2 :T2, T3 2x6 SP 2400f-2.0E:
Bot chord 2x6 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3

Special Loads

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	23 plf at	0.00 to	23 plf at	24.00
TC: From	40 plf at	0.00 to	40 plf at	24.00
TC: From	8 plf at	0.00 to	8 plf at	24.00
TC: From	2 plf at	7.00 to	2 plf at	9.98
TC: From	2 plf at	14.02 to	2 plf at	17.00
PLT: From	2 plf at	10.41 to	2 plf at	13.59
PLT: From	80 plf at	7.00 to	80 plf at	15.00
PLT: From	80 plf at	15.00 to	80 plf at	17.00
BC: From	5 plf at	0.00 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	24.00
BC: From	5 plf at	24.00 to	5 plf at	24.00

BC: 10 lb Conc. Load at 7.00,17.00

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

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 8-11-0.

WIND LOAD CASE MODIFIED!

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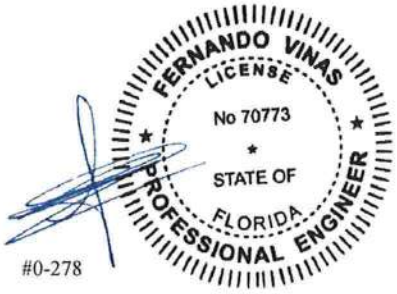

#0-278

03/04/2019

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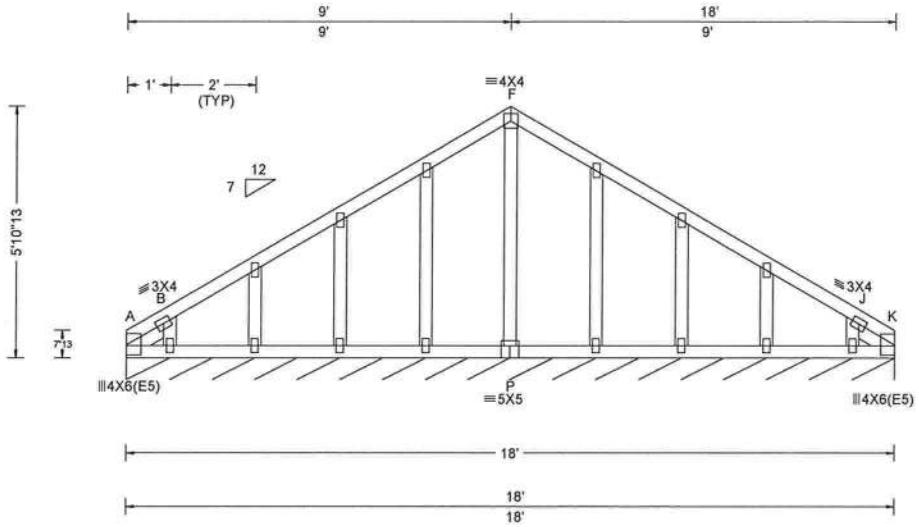
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537183 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** C01	Cust: R 215 JRef: 1WJ12150002 T9 DrwNo: 063.19.0905.50587 KD / FV 03/04/2019	



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: 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	G	999	480
VERT(CL): 0.001	G	999	360
HORZ(LL): 0.001	G	-	-
HORZ(TL): 0.002	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.050
Max BC CSI: 0.028
Max Web CSI: 0.059

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
K*	83	/-	/-	/44	/14	/7

Wind reactions based on MWFRS
K Brg Width = 216 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
Webs 2x4 SP #3
:Lt Slider 2x4 SP #3: BLOCK LENGTH = 1.000'
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.000'

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

See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

The overall height of this truss excluding overhang is 5-10-13.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

#0-278

03/04/2019

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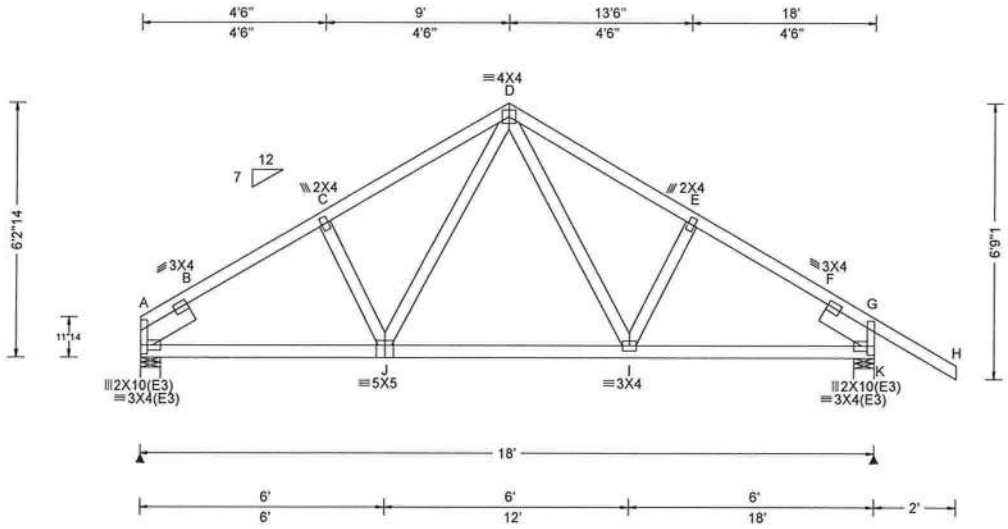
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537184 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** C02	Cust: R 215 JRef: 1WJ12150002 T8 DrwNo: 063.19.0905.52897 KD / FV 03/04/2019



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: 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.032	I	999	480
VERT(CL): 0.066	I	999	360
HORZ(LL): 0.025	F	-	-
HORZ(TL): 0.052	F	-	-

Creep Factor: 2.0
Max TC CSI: 0.472
Max BC CSI: 0.426
Max Web CSI: 0.113

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	741	/-	/-	/425	/121	/171
K	891	/-	/-	/543	/159	/-

Wind reactions based on MWFRS
A Brg Width = 6.0 Min Req = 1.5
K Brg Width = 6.0 Min Req = 1.5
Bearings A & 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	282	- 1041	D - E	323	- 856
B - C	292	- 973	E - F	285	- 954
C - D	331	- 878	F - G	337	- 1044

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - J	778	- 147	I - G	749	- 136
J - I	571	- 36			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'
:Rt Slider 2x6 SP #2: 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 6-2-14.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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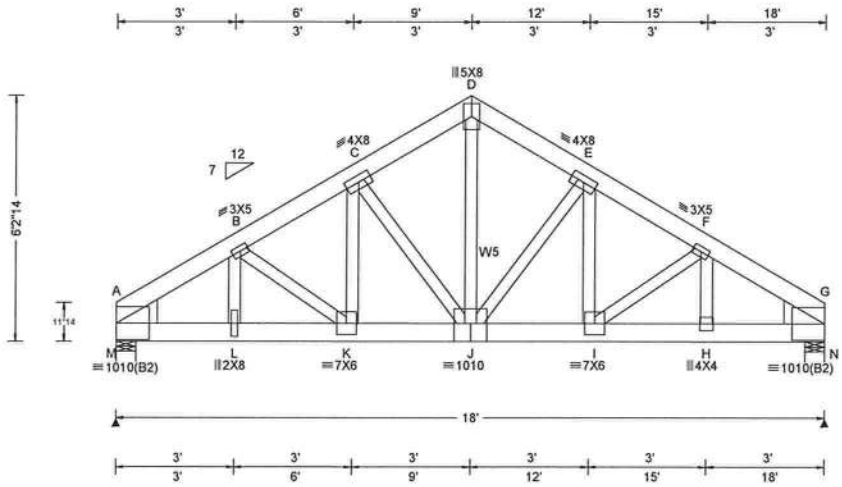
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537189 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** C03	Cust: R 215 JRef: 1WJ12150002 T11 DrwNo: 063.19.0906.03577 KD / FV 03/04/2019

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: 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: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.125	K	999	480
VERT(CL): 0.249	K	867	360
HORZ(LL): 0.059	H	-	-
HORZ(TL): 0.116	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.682
Max BC CSI: 0.908
Max Web CSI: 0.729

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity	
Loc	R+ / R-	/ Rh	/ Rw	/ U	/ RL
M	9742 /-	/-	/-	/1108	/-
N	9616 /-	/-	/-	/1095	/-

Wind reactions based on MWFRS
M Brg Width = 6.0 Min Req = 4.0
N Brg Width = 6.0 Min Req = 4.0
Bearings M & 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.
A - B	765	-6728	D - E	568	-4980
B - C	712	-6260	E - F	711	-6251
C - D	568	-4980	F - G	762	-6699

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - L	5485	-619	J - I	5388	-608
L - K	5474	-618	I - H	5451	-616
K - J	5395	-608	H - G	5461	-617

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
L - B	818	-64	J - E	203	-1785
K - C	1914	-190	E - I	1901	-188
C - J	205	-1797	F - H	794	-62
D - J	4748	-509			

Lumber

Top chord 2x6 SP 2400f-2.0E
Bot chord 2x6 SP M-31
Webs 2x4 SP #3 :W5 2x4 SP 2400f-2.0E:
:Lt Wedge 2x8 SP #2::Rt Wedge 2x8 SP #2:

Nailnote

Nail Schedule:0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 3.00" 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 63 plf at 0.00 to 63 plf at 18.00
BC: From 10 plf at 0.00 to 10 plf at 18.00
BC: 2255 lb Conc. Load at 1.94, 3.94, 5.94, 7.94 9.94,11.94,13.94,15.94

Wind

Wind loads and reactions based on MWFRS.

Blocking

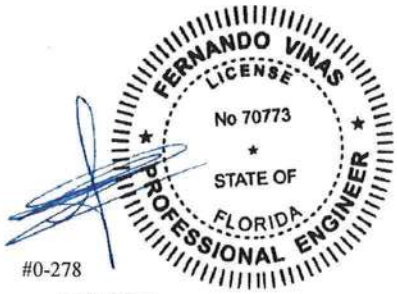
Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.00' bearing 2 located at 17.50'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6-2-14.

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



#0-278

03/04/2019

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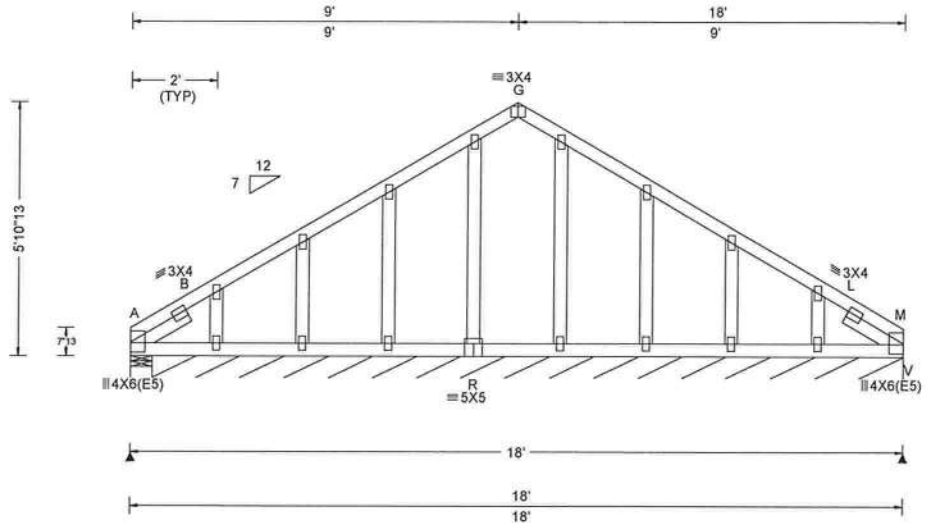
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537185 GABL FROM: CDM	Ply: 1 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** D01		Cust: R 215 JRef: 1WJ12150002 T6 DrwNo: 063.19.0906.06277 KD / FV 03/04/2019



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: 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.002	G	999	480
VERT(CL): 0.003	G	999	360
HORZ(LL): 0.002	L	-	-
HORZ(TL): 0.003	L	-	-

Creep Factor: 2.0
Max TC CSI: 0.054
Max BC CSI: 0.037
Max Web CSI: 0.058

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
A	95	/-	/-	/92	/10	/133
V*	80	/-	/-	/44	/17	/-

Wind reactions based on MWFRS
A Brg Width = 6.0 Min Req = 1.5
V Brg Width = 210 Min Req = -
Bearings A & A 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
: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.

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.

The overall height of this truss excluding overhang is 5-10-13.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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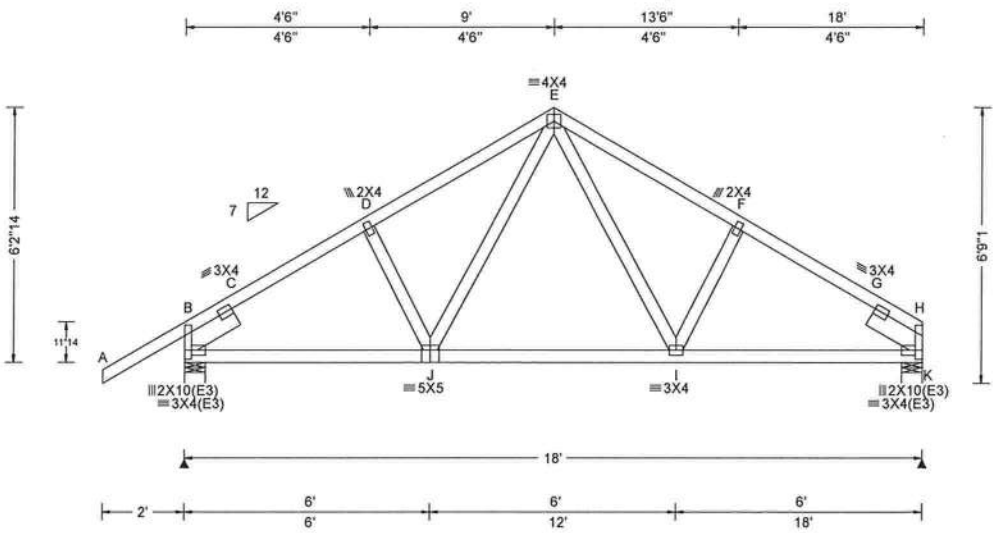
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537186 COMN FROM: CDM	Ply: 1 Qty: 3	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** D02	Cust: R 215 JRef: 1WJ12150002 T3 DrwNo: 063.19.0906.08763 KD / FV 03/04/2019	



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: 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: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.032	J	999	480
VERT(CL): 0.066	J	999	360
HORZ(LL): -0.017	C	-	-
HORZ(TL): 0.034	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.471
Max BC CSI: 0.437
Max Web CSI: 0.114

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	891	/-	/-	/543	/159	/171
K	741	/-	/-	/425	/121	/-

Wind reactions based on MWFRS
B Brg Width = 6.0 Min Req = 1.5
K Brg Width = 6.0 Min Req = 1.5
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	335	- 1043	E - F	329	- 879
C - D	283	- 953	F - G	290	- 974
D - E	321	- 856	G - H	280	- 1041

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - J	748	- 179	I - H	779	- 189
J - I	571	- 76			

Lumber

Top chord 2x4 SP #2
Bot chord 2x4 SP #2
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'
:Rt Slider 2x6 SP #2: 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 6-2-14.

FERNANDO VINAS
LICENSE
No 70773
STATE OF
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#0-278

03/04/2019

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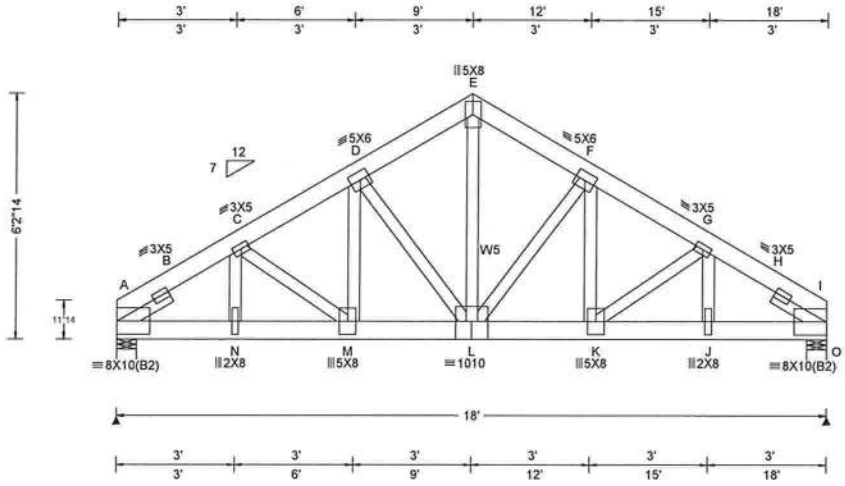
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537193 COMN FROM: CDM	Ply: 2 Qty: 1	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** D03	Cust: R 215 JRef: 1WJ12150002 T18 DrwNo: 063.19.0906.18840 KD / FV 03/04/2019	

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: 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: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.077	K	999	480
VERT(CL): 0.153	K	999	360
HORZ(LL): 0.028	D	-	-
HORZ(TL): 0.055	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.246
Max BC CSI: 0.555
Max Web CSI: 0.712

VIEW Ver: 18.02.00A.1126.20

▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+ / R-	/ Rh		/ Rw	/ U	/ RL
A	9635 /-	/-		/-	/1102	/-
O	12019 /-	/-		/-	/1346	/-

Wind reactions based on MWFRS
A Brg Width = 6.0 Min Req = 4.0
O Brg Width = 6.0 Min Req = 5.0
Bearings A & O 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	754	-6591	E - F	542	-4739
B - C	741	-6534	F - G	682	-5973
C - D	681	-5963	G - H	744	-6562
D - E	542	-4740	H - I	757	-6619

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - N	5353	-606	L - K	5080	-575
N - M	5285	-599	K - J	5312	-602
M - L	5072	-574	J - I	5384	-609

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
N - C	887	-74	L - F	183	-1601
M - D	1852	-183	F - K	1868	-185
D - L	182	-1588	G - J	907	-76
E - L	4473	-480			

Lumber

Top chord 2x6 SP 2400f-2.0E
Bot chord 2x6 SP M-31
Webs 2x4 SP #3 :W5 2x4 SP 2400f-2.0E:
: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 @ 3.00" 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 63 plf at 0.00 to 63 plf at 18.00
BC: From 10 plf at 0.00 to 10 plf at 18.00
BC: 2260 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06,12.06,14.06,16.06,17.73

Wind

Wind loads and reactions based on MWFRS.

Blocking

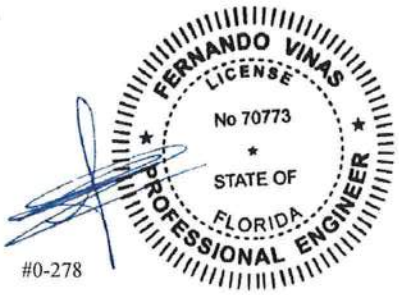
Full Height Blocking reinforcement required to prevent buckling of members over the bearings:
bearing 1 located at 0.00' bearing 2 located at 17.50'

Additional Notes

Refer to General Notes for additional information

The overall height of this truss excluding overhang is 6-2-14.

It is the responsibility of the Building Designer and Truss Fabricator to review this drawing prior to cutting lumber to verify that all data, including dimensions and loads, conform to the architectural plans/specifications and fabricators truss layout.



#0-278

03/04/2019

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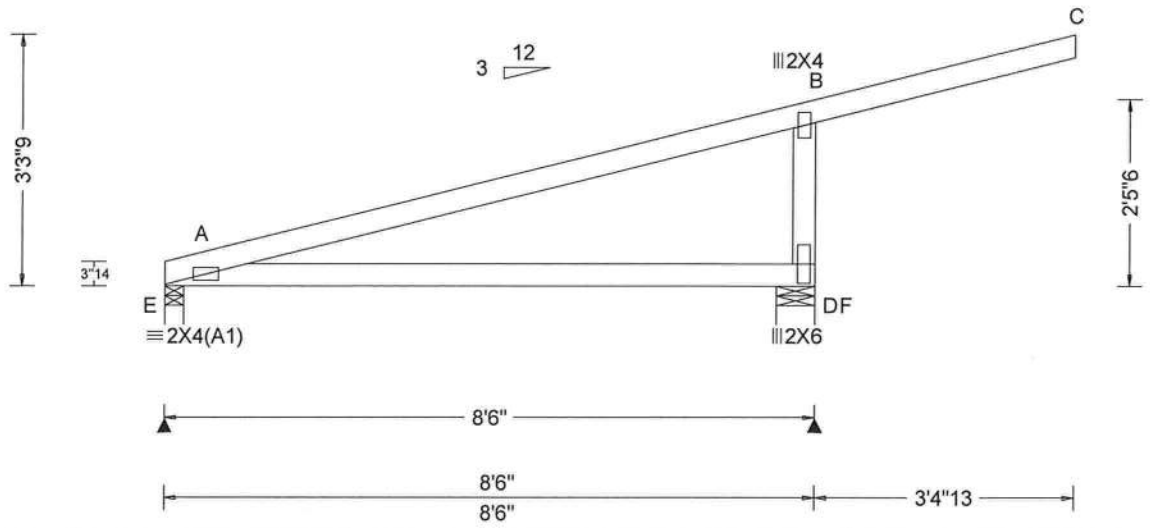
ALPINE
AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537187 MONO FROM: CDM	Ply: 1 Qty: 2	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** M01		Cust: R 215 JRef: 1WJ12150002 T12 DrwNo: 063.19.0906.22587 KD / FV 03/04/2019	



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: 3.00 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): NA
VERT(CL): NA
HORZ(LL): 0.019 D - -
HORZ(TL): 0.036 D - -
Creep Factor: 2.0
Max TC CSI: 0.470
Max BC CSI: 0.594
Max Web CSI: 0.311

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
E	303	/-	/-	/172	/20	/70
F	602	/-	/-	/232	/108	/-

Wind reactions based on MWFRS
E Brg Width = 3.0 Min Req = 1.5
F Brg Width = 6.0 Min Req = 1.5
Bearings E & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - D	413	-506

Lumber

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

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 3-3-9.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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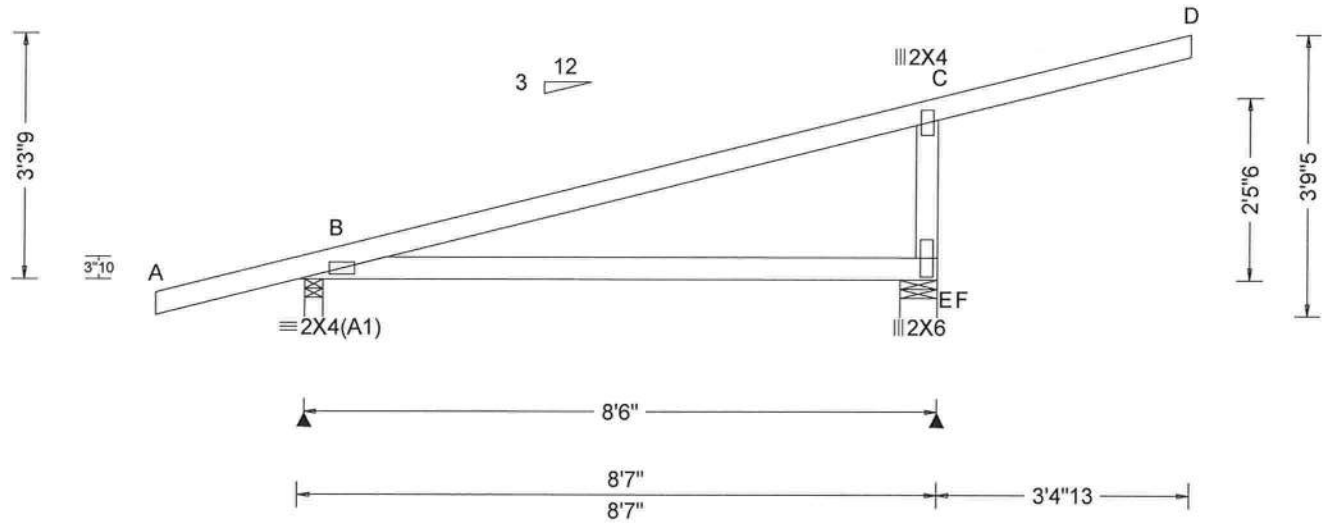
ALPINE AN ITW COMPANY
6750 Forum Drive
Suite 305
Orlando FL, 32821

SEQN: 537188 MONO FROM: CDM	Ply: 1 Qty: 13	**Job Number:** 19-2924 /Mark Madero /OWNER BUILDER **Truss Label:** M02	Cust: R 215 JRef: 1WJ12150002 T15 DrwNo: 063.19.0906.27043 KD / FV 03/04/2019	



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: 3.00 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): 0.064	E	999	480
VERT(CL): 0.117	E	874	360
HORZ(LL): 0.017	E	-	-
HORZ(TL): 0.032	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.461
Max BC CSI: 0.586
Max Web CSI: 0.318

VIEW Ver: 18.02.00A.1126.20

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	445	/-	/-	/260	/104	/94
F	592	/-	/-	/231	/99	/-

Wind reactions based on MWFRS
B Brg Width = 3.0 Min Req = 1.5
F Brg Width = 6.0 Min Req = 1.5
Bearings B & F are a rigid surface.
Members not listed have forces less than 375#

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - E	410	-500

Lumber

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

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 3-3-9.

FERNANDO VINAS LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

#0-278

03/04/2019

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

Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace * Group A	(1) 1x4 "L" Brace * Group B	(1) 2x4 "L" Brace * Group A	(1) 2x4 "L" Brace * Group B	(2) 2x4 "L" Brace ** Group A	(2) 2x4 "L" Brace ** Group B	(1) 2x6 "L" Brace * Group A	(1) 2x6 "L" Brace * Group B	(2) 2x6 "L" Brace ** Group A	(2) 2x6 "L" Brace ** Group B
24" o.c.	SPF HF	#1 / #2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
		#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Stud	4' 1"	6' 7"	7' 0"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Standard	4' 1"	5' 8"	6' 0"	7' 7"	8' 1"	10' 1"	10' 6"	11' 10"	12' 8"	14' 0"	14' 0"
	SP DFL	#1	4' 6"	7' 4"	7' 8"	8' 8"	9' 0"	10' 4"	10' 9"	13' 8"	14' 0"	14' 0"	14' 0"
		#2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
		Stud	4' 2"	6' 0"	6' 4"	7' 11"	8' 6"	10' 2"	10' 7"	12' 5"	13' 4"	14' 0"	14' 0"
		Standard	4' 0"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 2"	11' 0"	11' 10"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 8"	8' 1"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 8"	8' 1"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 8"	6' 11"	7' 5"	9' 3"	9' 11"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 1"	8' 5"	8' 9"	9' 11"	10' 4"	11' 10"	12' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 9"	7' 4"	7' 9"	9' 9"	10' 2"	11' 8"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 8"	6' 5"	6' 10"	8' 7"	9' 2"	11' 7"	12' 1"	13' 6"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 1"	8' 0"	8' 6"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 8"	9' 3"	9' 8"	10' 11"	11' 4"	13' 0"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 3"	8' 5"	9' 0"	10' 9"	11' 2"	12' 10"	13' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 1"	7' 5"	7' 11"	9' 11"	10' 7"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

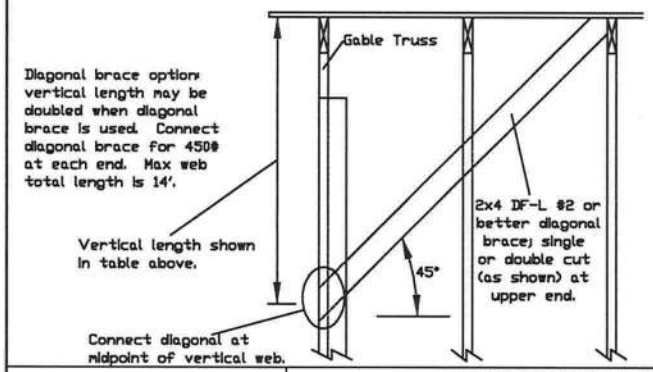
"L" bracing must be a minimum of 80% of web member length.

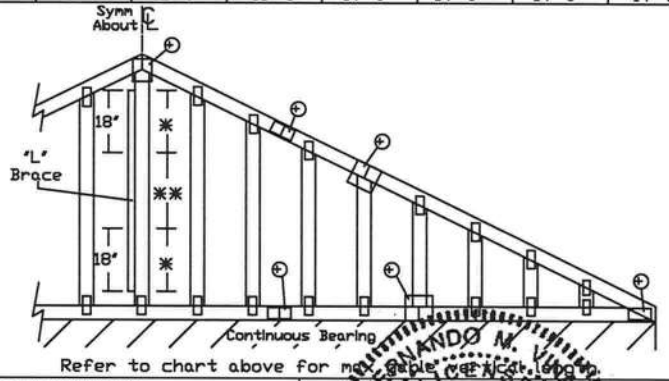
Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

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





Refer to chart above for maximum vertical length.

ALPINE
AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

FERNANDO M. VIDAL LICENSE No 70773 STATE OF FLORIDA PROFESSIONAL ENGINEER

03/04/2019

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-10-GAB14015
DATE	10/01/14
DRWG	A14015ENC101014

CLR Reinforcing Member Substitution

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.

Notes:

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

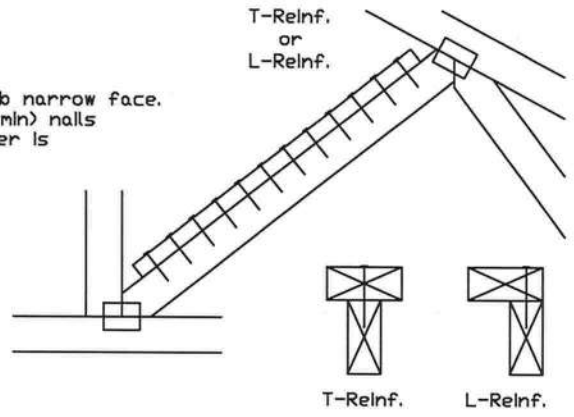
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Alternative Reinforecement Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4 ⊛
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6 ⊛

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.

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

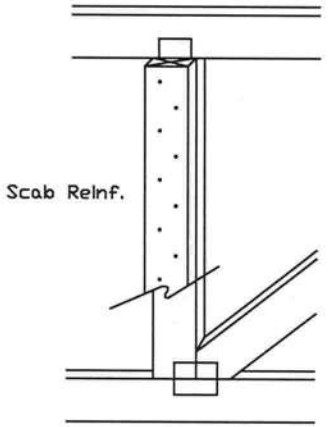
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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.



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FERNANDO M. VINAS
LICENSE
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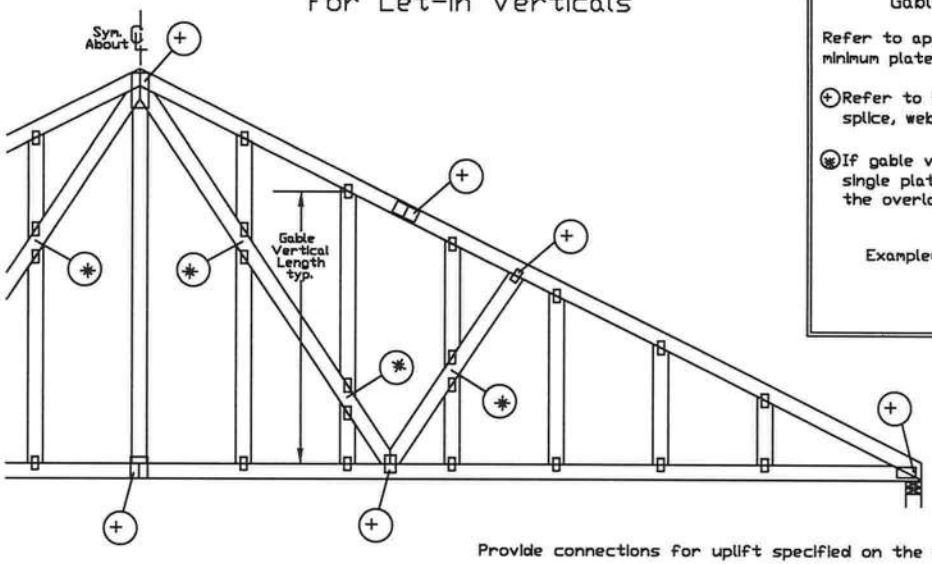
STATE OF FLORIDA
PROFESSIONAL ENGINEER
03/04/2019

TC LL	PSF	REF	CLR Subst.
TC DL	PSF	DATE	01/02/19
BC DL	PSF	DRWG	BRCLBSUB0119
BC LL	PSF		
TOT. L.D.	PSF		
DUR. FAC.			
SPACING			

Gable Detail
For Let-in Verticals



Gable Truss Plate Sizes

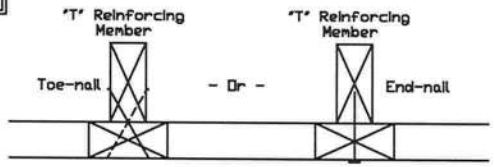
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, 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: 2X4 2X4 2X8

"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

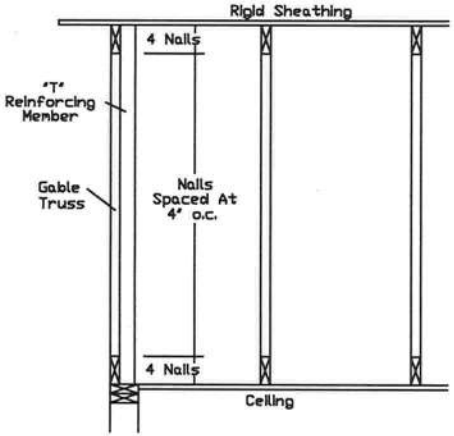
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 & ASCE 7-16 Gable Detail Drawings
A11515ENC100118, A12015ENC100118, A14015ENC100118, A16015ENC100118, A18015ENC100118, A20015ENC100118, A20015END100118, A20015PED100118, A11530ENC100118, A12030ENC100118, A14030ENC100118, A16030ENC100118, A18030ENC100118, A20030ENC100118, A20030END100118, A20030PED100118, S11515ENC100118, S12015ENC100118, S14015ENC100118, S16015ENC100118, S18015ENC100118, S20015ENC100118, S20015END100118, S20015PED100118, S11530ENC100118, S12030ENC100118, S14030ENC100118, S16030ENC100118, S18030ENC100118, S20030ENC100118, S20030END100118, S20030PED100118

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



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate Alpine gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" 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
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

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03/04/2019

#0-278

MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF LET-IN VERT
DATE 01/02/2018
DRWG GBLLETIN0118