DATE 01/12/2017

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000034826

APPLICANT SUZANNE STEWART PHONE 386-752-8653

ADDRESS 465 NW ORANGE STREET LAKE CITY FL 32055

OWNER THOMAS & LINDA MCCALL PHONE 497-3813

ADDRESS 1120 SW RIVERSIDE AVE FORT WHITE FL 32038

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 47 S, R 27, L RIVERSIDE AVE, 1 MILE ON RIGHT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 112850.00

HEATED FLOOR AREA 1649.00 TOTAL AREA 2257.00 HEIGHT STORIES 2

FOUNDATION PIERS WALLS FRAMED ROOF PITCH FLOOR WOOD

LAND USE & ZONING ESA-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE AE DEVELOPMENT PERMIT NO. 17-001

PARCEL ID 27-6S-15-00565-000 SUBDIVISION THREE RIVERS ESTATES

LOT 49 BLOCK PHASE UNIT 1 TOTAL ACRES 0.91

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CBC1257343	Suzanne Stewart

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident	Time STUP No.
EXISTING	16-0560-E	BS	TC	N	

COMMENTS: MINIMUM ELLEVATION 34' - NEED ELEVATION CERTIFICATION ON FINISHED CONSTRUCTION INCLUDING ALL MACHINERY BEFORE POWER

Check # or Cash 4337

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power ____ date/app. by

Foundation ____ date/app. by

Monolithic (footer/Slab) ____ 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 $	565.00	CERTIFICATION FEE $	11.29	SURCHARGE FEE $	11.29
MISC. FEES $	0.00	ZONING CERT. FEE $	50.00	FIRE FEE $	0.00
WASTE FEE $		PLAN REVIEW FEE $		DP & FLOOD ZONE FEE $	75.00
CULVERT FEE $		**TOTAL FEE**	712.58		

INSPECTORS OFFICE ____ CLERKS OFFICE CH

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.

#712,58 clk 4337

Columbia County New Building Permit Application

For Office Use Only Application # 1612-58 Date Received 12-22-16 By LA Permit # 34826

Zoning Official BLS Date 1-12-17 Flood Zone AE Land Use ESA Zoning ESA-2

FEMA Map # 0458-C Elevation 33' MFE 34' River Santafe Plans Examiner TLC Date 1-3-17

Comments need elevation Certificate on finished Const including Machinery before Power

☑ NOC ☑ EH ☑ Deed or PA ☑ Site Plan ☐ State Road Info ☑ Existing Well letter ☑ 911 Sheet ☐ Parent Parcel #

☑ Dev Permit # 17-001 ☑ In Floodway ☑ Letter of Auth. from Contractor ☐ ~~FW Comp. letter~~

☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☑ App Fee Paid ☑ Sub VF Form

Septic Permit No. 16-0560-E OR City Water Fax

Applicant (Who will sign/pickup the permit) Suzanne Stewart Phone 386-752-8653

Address 465 NW Orange Street Lake City, FL 32055

Owners Name Thomas & Linda McCall Phone 386-497-3813

911 Address 1120 SW Riverside Ave, Fort White FL 32038

Contractors Name Bryan Zecher Home, Inc Phone 386-752-8653 867-4994

Address 465 NW Orange Street, Lake City, FL 32055

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

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Colacino Drafting + Design / Apex Engineering

Mortgage Lenders Name & Address Drummond Community Bank

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

Property ID Number 00-00-00-00565-000 Estimated Construction Cost $280,615.00

Subdivision Name Three Rivers Estate Lot 49 Block ___ Unit 1 Phase ___

Driving Directions from a Major Road From downtown Lake City take 41 sout to SR 47, travel south on SR 47 to Ft. White, at light in Ft. White, turn right onto US 27, go 4.8 miles, turn left on SW Riverside Ave. trave 1 mile to jobsite on the right.

Construction of New Home ___ Commercial OR ✓ Residential

Proposed Use/Occupancy Residential Number of Existing Dwellings on Property ___

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

Circle Proposed - Culvert Permit or Culvert Waiver or D.O.T. Permit or (Have an Existing Drive)

Actual Distance of Structure from Property Lines - Front 200' Side 15' Side 35' Rear 80'

Number of Stories 2 Heated Floor Area 1649 Total Floor Area 2257 Acreage 0.909

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

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 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.

Linda K. McCall
THOMAS M. McCALL
Print Owners Name

Linda K. McCall
Thomas M. McCall
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 CBC1257343
Columbia County Competency Card Number 1624

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 21st **day of** December **20**16.

Personally known ✓ **or Produced Identification** _____

Suzanne Stewart
State of Florida Notary Signature (For the Contractor)

SEAL:

NOTARY PUBLIC
SUZANNE STEWART
MY COMMISSION # FF 936523
EXPIRES: November 16, 2019

Prepared by and return to:
Jade D. Bailey
Bankers Title of the Nature Coast, Inc.
P. O. Box 1260
Old Town, FL 32680

File No. 8535

Inst: 201612020995 Date: 12/27/2016 Time: 1:22PM
Page 1 of 1 B: 1328 P: 86, P.DeWitt Cason, Clerk of Court Colum County, By: BD
Deputy Clerk

Permit Number:
Tax Folio Number: R00565-000

NOTICE OF COMMENCEMENT

THE UNDERSIGNED HEREBY gives notice that improvement(s) will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. DESCRIPTION OF PROPERTY: Legal Description:
   Lot 49, THREE RIVERS ESTATES SECTION NO. 1, a subdivision of parts of Lots 1 and 4, Section 23, and a part of Lot 3, Section 26, Township 6 South, Range 15 East, as recorded in Plat Book 3, Page 53, Public Records of Columbia County, Florida.

2. GENERAL DESCRIPTION OF IMPROVEMENTS: Build Home

3. OWNER INFORMATION:
   a. Name and Address: Thomas M McCall and Linda K McCall, 1120 SW Riverside Avenue, Fort White, FL 32038
   b. Interest in property: Fee Simple
   c. Names and address of fee simple title holder (if other than owner):

4. CONTRACTOR: Bryan Zecher Homes, Inc., 465 NW Orange St, Lake City, FL 32055

5. SURETY:

6. LENDER: Drummond Community Bank, Lake City, Florida

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

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

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

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

Thomas M. McCall
Thomas M McCall

Linda K. McCall
Linda K McCall

The foregoing instrument was acknowledged before me December 22, 2016 by Thomas M McCall and Linda K McCall who is personally known to me or who did provide FL DL as identification.

[redacted]
Notary Public

Columbia County Building Department
Flood Development Permit

Development Permit
F 023- 17-001

DATE 01/12/2017 BUILDING PERMIT NUMBER 000034826

APPLICANT SUZANNE STEWART PHONE 386-752-8653

ADDRESS 465 NW ORANGE STREET LAKE CITY FL 32055

OWNER THOMAS & LINDA MCCALL PHONE 497-3813

ADDRESS 1120 SW RIVERSIDE AVE FORT WHITE FL 32038

CONTRACTOR BRYAN ZECHER PHONE 752-8653

ADDRESS 465 NW ORANGE ST LAKE CITY FL 32055

SUBDIVISION THREE RIVERS ESTAES Lot 49 Block ____ Unit 1 Phase ____

TYPE OF DEVELOPMENT SFD, UTILITY PARCEL ID NO. 27-6S-15-00565-000

FLOOD ZONE AE BY BS 2-4-2009 FIRM COMMUNITY # 120070 - PANEL # 0458-C

FIRM 100 YEAR ELEVATION 33' PLAN INCLUDED YES or NO

REQUIRED LOWEST HABITABLE FLOOR ELEVATION 34'

IN THE REGULATORY FLOODWAY YES or NO RIVER Santa Fe

SURVEYOR / ENGINEER NAME Winsberg, Inc. LICENSE NUMBER 68463

✓ ONE FOOT RISE CERTIFICATION INCLUDED

_____ ZERO RISE CERTIFICATION INCLUDED

_____ SRWMD PERMIT NUMBER _____
(INCLUDING THE ONE FOOT RISE CERTIFICATION)

DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED _____

INSPECTED DATE _____ BY _____

COMMENTS _____

_____

135 NE Hernando Ave., Suite B-21
Lake City, Florida 32055
Phone: 386-758-1008
Fax: 386-758-2160

PERMIT EXPIRES ONE YEAR FROM THE DATE OF ISSUANCE

Winsberg, Inc.
PO Box 2815
Lake City, FL 32056

Phone: 386-755-7449
Fax: 888-522-0030
david@winsberginc.com

Less than 1 Foot Rise Certification

Client/Owner:	Thomas & Linda McCall
Contractor:	Bryan Zecher
Property Description:	0.91 Acres in Columbia County, FL
Structure(s) in Flood Area:	Not Specified
Parcel ID#:	00-00-00-00565-000

Impact of Storage Volume Reduction - Calculations

Flood Map for Property:	12023C 0458C
Elevation of 100 yr flood:	33.80 NGVD29, Zone AE
Length of river reach between BFE -1 foot and BFE +1 foot:	~7.32 miles = 38,650 ft
Width of floodplain:	~1,694 ft
Effective Flood Area:	1,694 ft * 38,650 ft = 65,473,000 ft^2
Depth of proposed Fill\Obstruction:	Less than 10ft
Area of proposed Fill\Obstruction:	Less than 0.91 acres (39,640 ft^2)
Volume of proposed Fill\Obstruction:	Less than 10ft * 39,640 ft^2 = 396,400 ft^3
Flood Elevation Increase due to reduction of storage volume:	396,400 ft^3 / 65,473,000 ft^2 = **0.0061 ft**

I hereby certify that construction of the proposed structure(s), fill, and\or obstruction(s) as specified in this letter will not cause the flood waters of the surrounding area to rise greater than 1 foot due to a reduction in storage volume. The property is not inside any regulatory floodway.

David Winsberg

David M. Winsberg
PE# 68463, CA# 29596
January 10, 2017

Columbia County Property Appraiser

updated: 10/21/2016

2016 Tax Year

Tax Collector | Tax Estimato | Property Card | Parcel List Generator

Parcel: 00-00-00-00565-000

<< Next Lower Parcel | Next Higher Parcel >>

2016 TRIM (pdf) | Interactive GIS Map | Print

<< Prev Search Result: 28 of 36 Next >>

Owner & Property Info

Owner's Name	MCCALL THOMAS M & LINDA K		
Mailing Address	STEBBINS MCCALL 1120 SW RIVESIDE AVE FT WHITE, FL 32038		
Site Address	1120 SW RIVERSIDE AVE		
Use Desc. (code)	SINGLE FAM (000100)		
Tax District	3 (County)	**Neighborhood**	100000
Land Area	0.909 ACRES	**Market Area**	02
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		

LOT 49 SEC 1 THREE RIVERS LOT 49 SEC 1 THREE RIVERS ESTATES. ORB 545-413, 551-496, ESTATES. ORB 545-413, 551-496, PROB 1120-91, QC 1183-1045, PROB 1120-91, QC 1183-1045, WD 1258-106, WD'S 1258-109 WD 1258-106, WD'S 1258-109 THRU 114, THRU 114,

Property & Assessment Values

2016 Certified Values		
Mkt Land Value	cnt: (0)	$95,000.00
Ag Land Value	cnt: (1)	$0.00
Building Value	cnt: (1)	$27,071.00
XFOB Value	cnt: (2)	$1,300.00
Total Appraised Value		$123,371.00
Just Value		$123,371.00
Class Value		$0.00
Assessed Value		$123,371.00
Exempt Value	(code: HX H3)	$50,000.00
Total Taxable Value		Cnty: $73,371 Other: $73,371 | Schl: $98,371

2017 Working Values (Hide Values)		
Mkt Land Value	cnt: (0)	$95,000.00
Ag Land Value	cnt: (1)	$0.00
Building Value	cnt: (1)	$27,071.00
XFOB Value	cnt: (2)	$1,300.00
Total Appraised Value		$123,371.00
Just Value		$123,371.00
Class Value		$0.00
Assessed Value		$123,371.00
Exempt Value	(code: HX H3)	$50,000.00
Total Taxable Value		Cnty: $73,371 Other: $73,371 | Schl: $98,371

NOTE: 2017 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
7/16/2013	1258/109	WD	I	U	30	$37,500.00
7/16/2013	1258/113	WD	I	U	30	$61,700.00
7/16/2013	1258/114	WD	I	U	30	$100.00
7/11/2013	1258/110	WD	I	U	30	$7,800.00
7/11/2013	1258/111	WD	I	U	30	$7,800.00
7/11/2013	1258/112	WD	I	U	30	$15,500.00
7/3/2007	1183/1045	QC	I	U	01	$100.00
7/3/2007	1258/106	QC	I	U	01	$100.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1957	CONC BLOCK (15)	964	1344	$27,071.00

	Note: All S.F. calculations are based on exterior building dimensions.

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0294	SHED WOOD/	0	$500.00	0000001.000	16 x 24 x 0	(000.00)
0120	CLFENCE 4	1993	$800.00	0000320.000	0 x 0 x 0	(000.00)

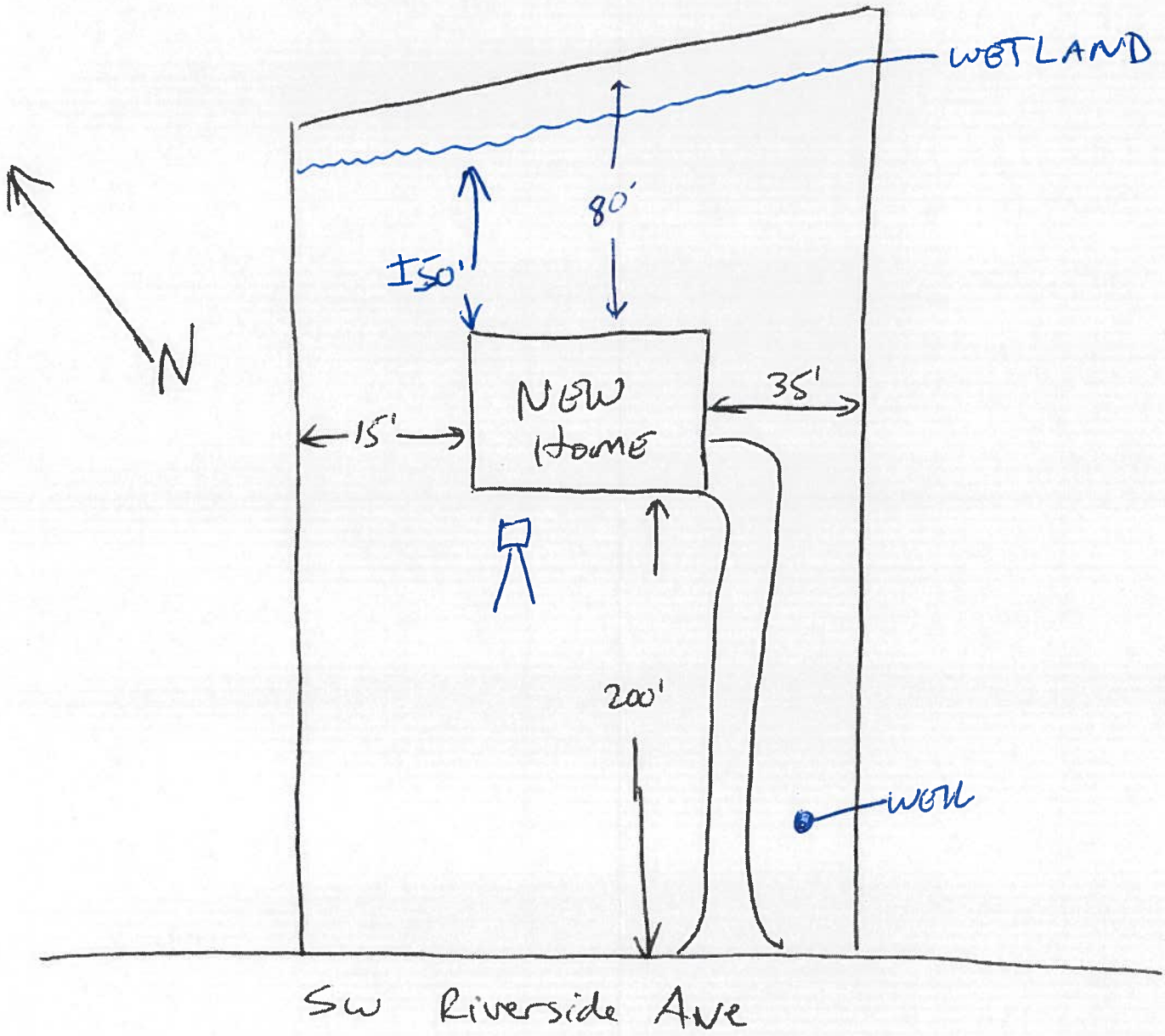
Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000020	VAC/WATER (MKT)	100 FF - (0000000.909AC)	1.00/1.00/1.00/1.00	$950.00	$95,000.00

Columbia County Property Appraiser updated: 10/21/2016

<< Prev 28 of 36 Next >>

Proposed Site Plan



Parcel # 00-00-00-00565-000

COLUMBIA COUNTY
GIS / 911 ADDRESSING DEPARTMENT

P. O. Box 1787, Lake City, FL 32056-1787
263 NW Lake City Ave., Lake City, FL 32055
Telephone: (386) 758-1125 x 1 * Fax: (386) 758-1365 * Email: gis@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide 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 assigning 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 Service 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 ISSUED: 15 SEPTEMBER 2016

ENHANCED 9-1-1 ADDRESS:

1120 SW RIVERSIDE AVE

FORT WHITE FL 32038

PROPERTY APPRAISER PARCEL NUMBER:

Remarks:

RE-ISSUE OF EXSITING ADDRESS FOR NEW STRUCTURE ON PARCEL

Address Issued By: Signed:/ Ronal N. Croft

Columbia County 9-1-1 Addressing / GIS Department

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, THIS ADDRESS IS SUBJECT TO CHANGE.

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

PERMIT NO. 16-0256[illegible]
DATE PAID: 9/30/16
FEE PAID: [illegible]
RECEIPT #: 1548063

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

APPLICANT: Thomas McCall

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: 49 BLOCK: na SUB: Three Rivers Estates Sec 1 PLATTED: _____

PROPERTY ID #: 00-00-00-00565-000 ZONING: _____ I/M OR EQUIVALENT: [Y / (N)

PROPERTY SIZE: .909 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

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

PROPERTY ADDRESS: 1120 SW Riverside Ave, Fort White, FL, 32038

DIRECTIONS TO PROPERTY: 47 South, TR on US 27, TL on Riverside, 1 mile to address on right

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	1649	
2				
3				

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

SIGNATURE: [signature] DATE: 9/28/2016

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

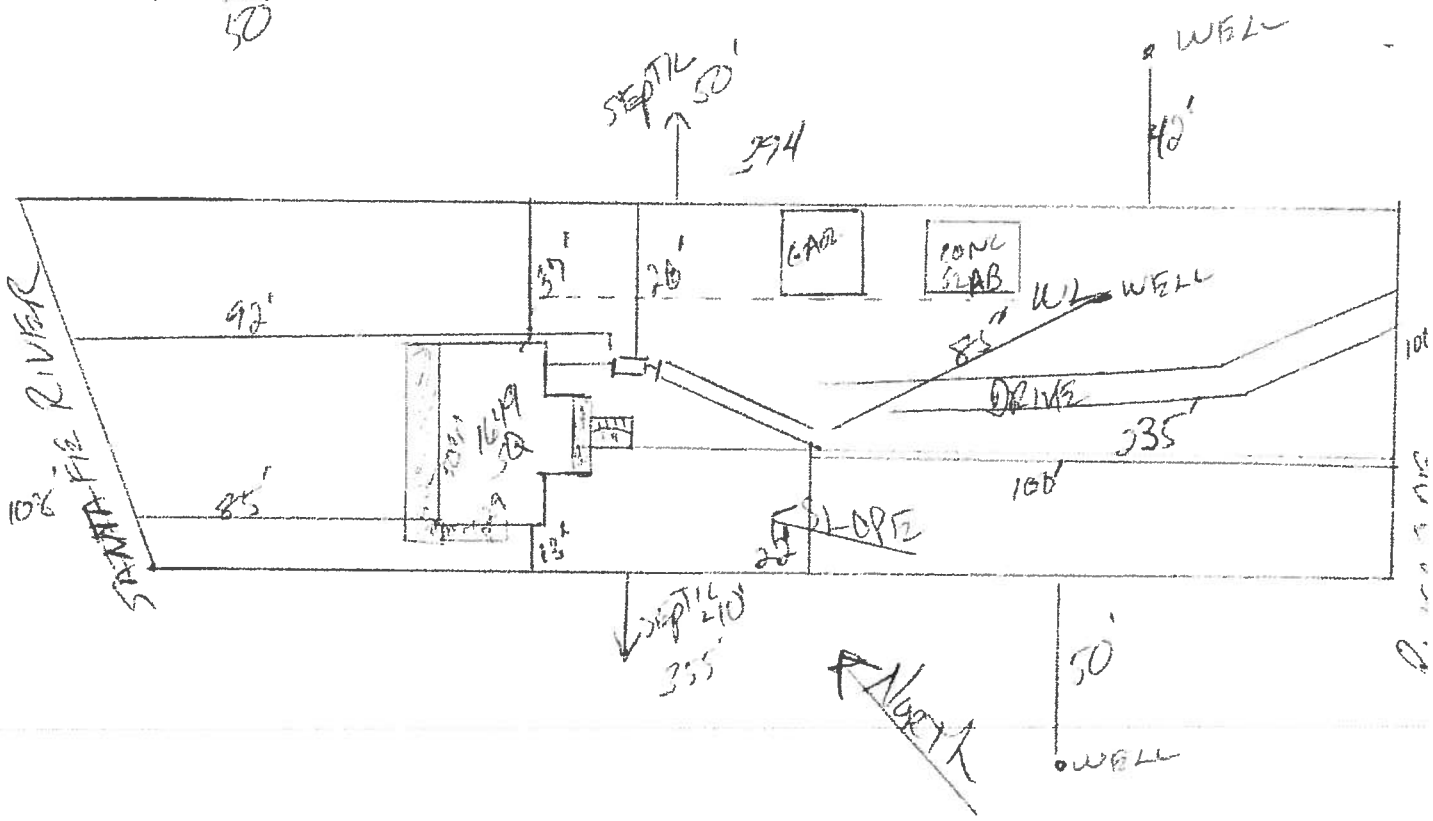
STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 16-0526

M°Call

PART II - SITEPLAN

Scale: 1 inch = ~~40~~ 50 feet.



Notes: NEW HOME IN SAME FOOTPRINT AS EXISTING

Site Plan submitted by: [signature] MASTER CONTRACTOR

Plan Approved_____ Not Approved_____ Date_____

By REVIEWED Karen J. Evans EH Columbia County Health Department 10-10-16

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1612-58 CONTRACTOR Bryan Zecher PHONE (386) 752-8653

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

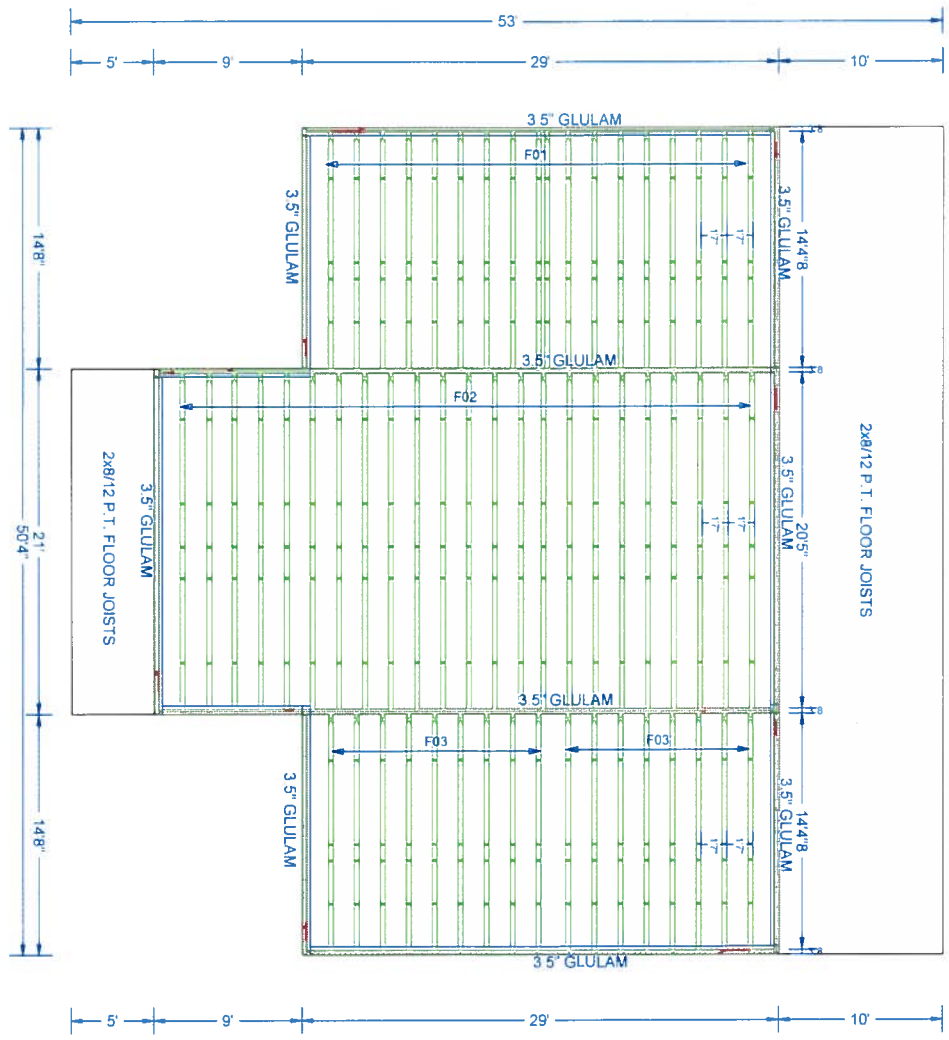
In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL #0076	Print Name Marc Matthews License #: EC 13005459	Signature Phone #: (386) 344-2029
MECHANICAL/ A/C #0747	Print Name Mark Touchstone License #: CACO-58099	Signature Phone #: (386) 867-0625
PLUMBING/ GAS #000715	Print Name Cody Barrs License #: CFC1427145	Signature Phone #: (386) 623-0509
ROOFING #001129	Print Name Dana Davis Johnson License #: CCC1325497	Signature Phone #: (386) 472-6007
SHEET METAL	Print Name License #:	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#:	Signature Phone #:
SOLAR	Print Name License #:	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	000287	Willie Dixon	
CONCRETE FINISHER	000063	Daryl Spradley	
FRAMING	001545	Christopher Lumpkin	
INSULATION	000240	Will Sikes	
STUCCO	001456	James E. David	
DRYWALL	000260	Jesse Ercoli	
PLASTER	N/A		
CABINET INSTALLER	001452	Craig Mooreman	
PAINTING	000180	Scott Vogel	
ACOUSTICAL CEILING	N/A		
GLASS	N/A		
CERAMIC TILE	000876	Ryan Hardin	
FLOOR COVERING	000546	Ryan Hardin	
ALUM/VINYL SIDING	000166	Mike Nicholson	
GARAGE DOOR	000618	Carl Bullard	
METAL BLDG ERECTOR	N/A		

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.



W.B. Howland Truss Co.
P.O. Box 700
Live Oak, FL 32064
(386)362-1235
(386)362-7124 (fax)

SY42 FLOOR SYSTEM

DEPTH: 18"
SPACING: 19" O.C.
LOADING: 55
WIND LOAD: N/A
EXPOSURE: C
FBC 2010 RESIDENTIAL
EXT. WALLS: GLU LAM BEAMS PER PLANS
DATE: 7/21/16

NOTES:

- GLU LAMS ARE SIZED AT 3.5" X 18".
- DEFLECTION DESIGN AT 480/360.
- 18" DEPTH SY42 TRUSSES @ 19" O.C.
--FLOOR TRUSS TO GLULAM CONNECTION VIA HANGER.
- (116) TRUSS TO TRUSS CONNECTIONS.

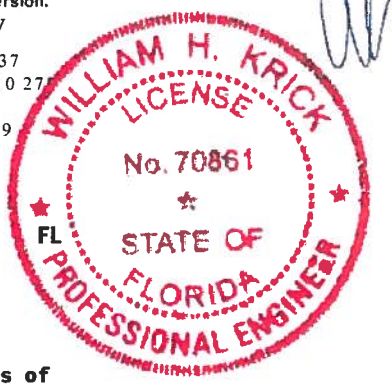
COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

PAGE NO: 1 OF 1	JOB NO: 16-0765F	Job Name: MCCALL RESIDENCE Customer: ZECHER CONSTRUCTION Designer: Chris McCall ADDRESS: SALESMAN: DB : <Not Found>	JOB #: 16-0765F	WB HOWLAND

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

Alpine, an ITW Company

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number: 0 27
Florida Certificate of Product Approval # FL1999
 Document ID:1VV2215-Z0219161909



Truss Fabricator:	**W.B. Howland**
Job Identification:	**16-0765F-/MCCALL RESIDENCE /ZECHER CONSTRUCTION --**
Truss Count:	**3**
Model Code:	**Florida Building Code 5th Edition (2014)**
Truss Criteria:	**TPI-2007(STD)**
Engineering Software:	**Alpine Software,Version 16.01.**
Structural Engineer of Record:	**The identity of the structural EOR did not exist as of**
Address:	**the seal date per section 61G15-31.003(5a) of the FAC**
Minimum Design Loads:	**Roof - N/A**
	Floor - 55.0 PSF @ 1.00 Duration
	Wind - No Wind

Notes:

1. **Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1**
2. **The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.**
3. **As shown on attached drawings; the drawing number is preceded by: HCUSR215**

10/19/2016
William H. Krick
-Truss Design Engineer-

2400 Lake Orange Dr. Suite 150
Orlando FL, 32837

Details: STRBRIBR-

#	Ref	Description	Drawing#	Date
1	19763--F01		16293001	10/19/16
2	19764--F02		16293002	10/19/16
3	19765--F03		16293003	10/19/16

(16-0765F-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - F01)

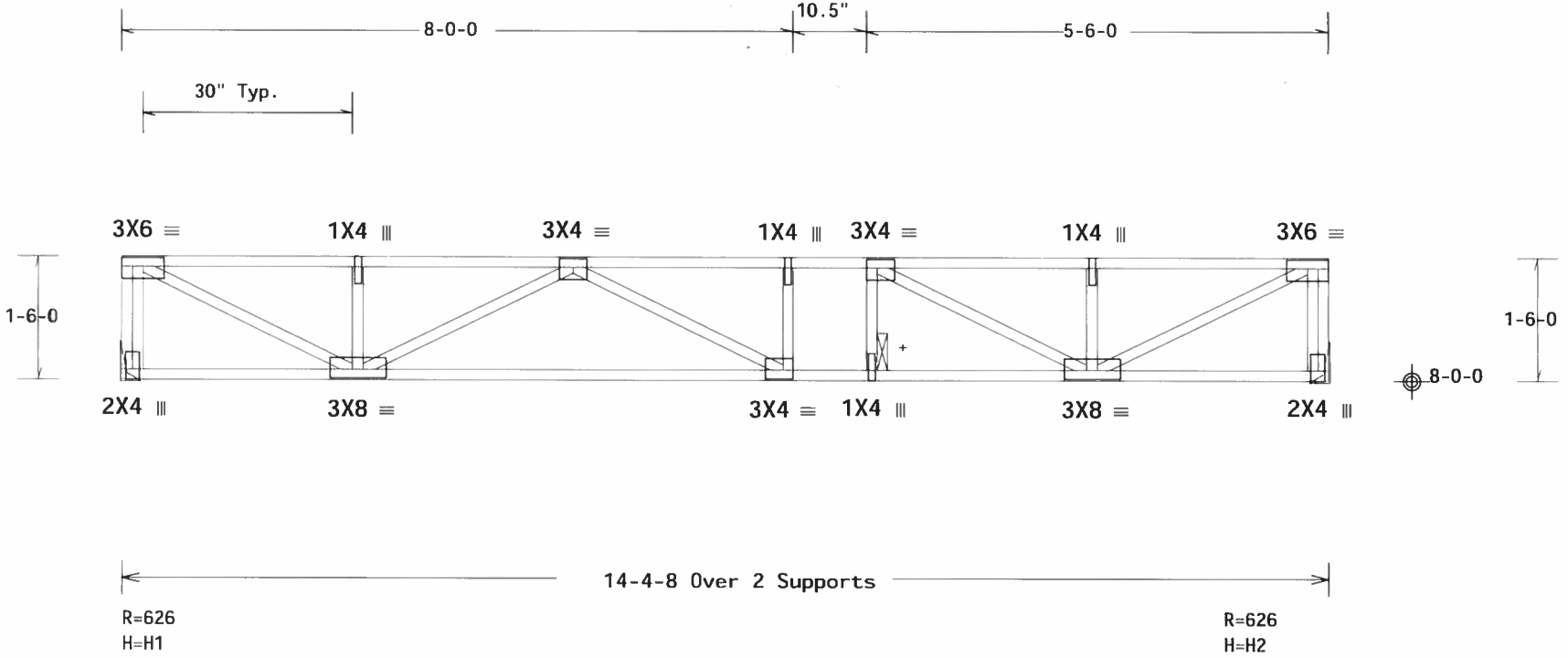
Top chord 4x2 SP M-31
Bot chord 4x2 SP M-31
Webs 4x2 SP M-31

Deflection meets L/480 live and L/360 total load. Creep increase factor for dead load is 1.50.

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

Trusses to be spaced at 19.0" OC maximum.

Truss must be installed as shown with top chord up.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=12%(0%)/10(0) 16.01.00.0413.17 QTY:18 FL/-/1/-/-/R/- Scale =.5"/Ft.

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AN ITW COMPANY
2400 Lake Orange Dr., Suite 150
Orlando, FL 32837
FL COA #0 278

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

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

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	40.0 PSF	REF	R215-- 19763 -
TC DL	10.0 PSF	DATE	10/19/16
BC DL	5.0 PSF	DRW	HCUSR215 16293001
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	55.0 PSF	SEQN-	455629
DUR.FAC.	1.00	FROM	CDM
SPACING	19.0"	JREF-	1VV2215_Z02

(16-0765F-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - F02)

Top chord 4x2 SP M-31
Bot chord 4x2 SP M-31
Webs 4x2 SP M-31

Deflection meets L/480 live and L/360 total load. Creep increase factor for dead load is 1.50.

These hangers and support conditions used at bearings indicated.
(H1) = Simpson
(H2) = (J) Hanger not calculated
(H3) = (J) Hanger not calculated
(H4) = (J) Hanger not calculated
(H5) = (J) Hanger not calculated
(H6) = (J) Hanger not calculated
(H7) = (J) Hanger not calculated
(H8) = (J) Hanger not calculated
(H9) = (J) Hanger not calculated

+ 2x6 continuous strongback. See detail STRBRIBR1014 for bracing and bridging recommendations.

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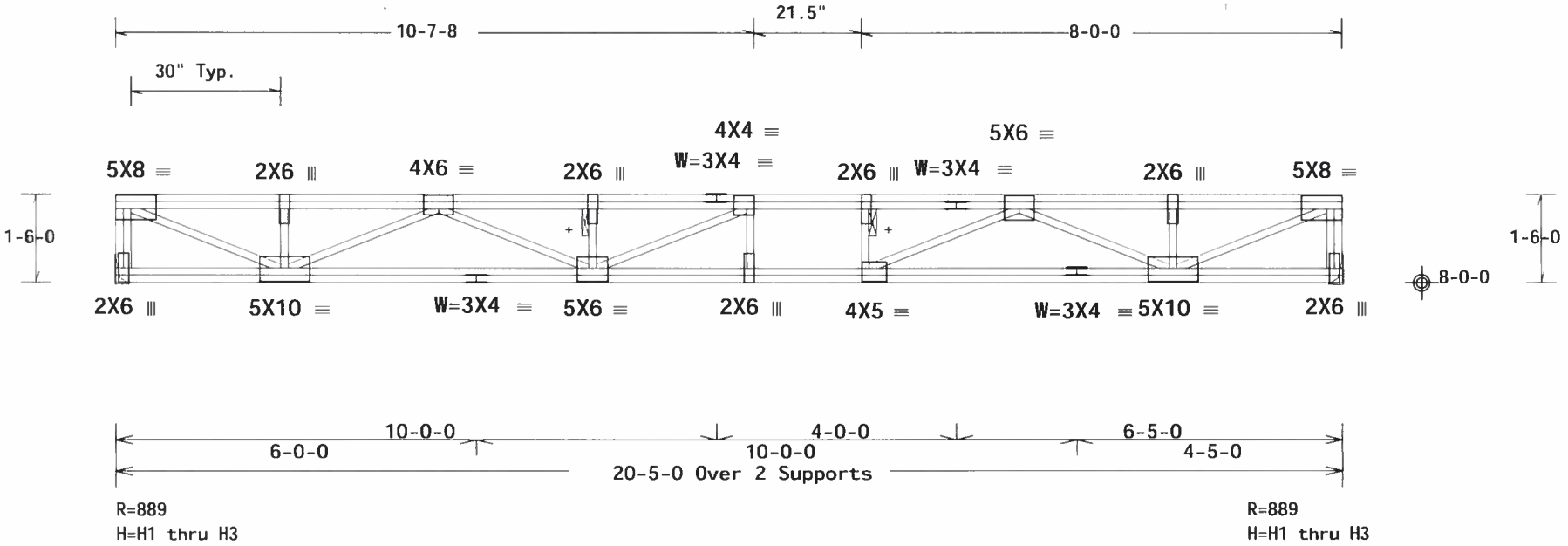

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=12%(0%)/10(0) | 16.01.00.0413.17 | QTY:23 | FL/-/1/-/-/R/- | Scale =.375"/Ft.

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Orlando, FL 32837
FL COA #0 278

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	40.0 PSF	REF	R215-- 19764
TC DL	10.0 PSF	DATE	10/19/16
BC DL	5.0 PSF	DRW	HCUSR215 16293002
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	55.0 PSF	SEQN-	455635
DUR.FAC.	1.00	FROM	CDM
SPACING	19.0"	JREF-	1VV2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 4x2 SP M-31
Bot chord 4x2 SP M-31
Webs 4x2 SP M-31

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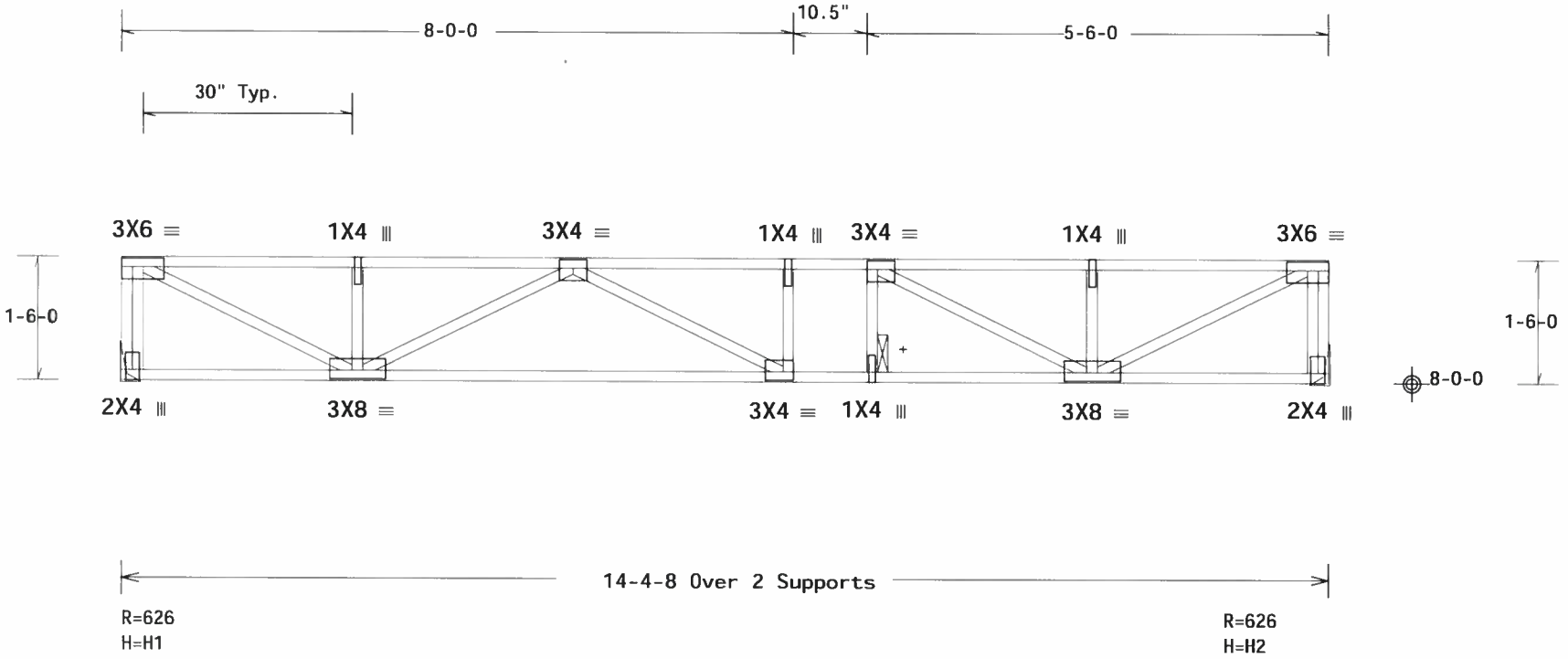
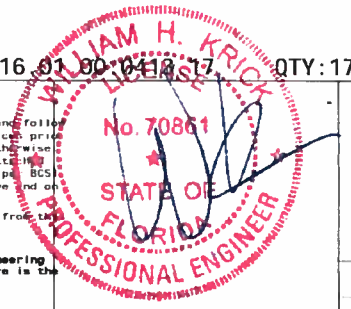


Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=12%(0%)/10(0) 16.01.00.0418.17 QTY:17 FL/-/1/-/-/R/- Scale =.5"/Ft.



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Orlando, FL 32837
FL COA #0278

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TC DL	10.0 PSF	DATE	10/19/16
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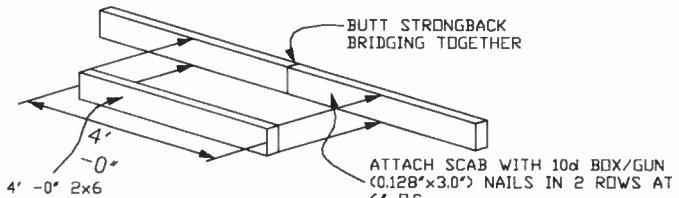
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	55.0 PSF	SEQN-	455627
DUR.FAC.	1.00	FROM	CDM
SPACING	19.0"	JREF-	1VV2215_Z02

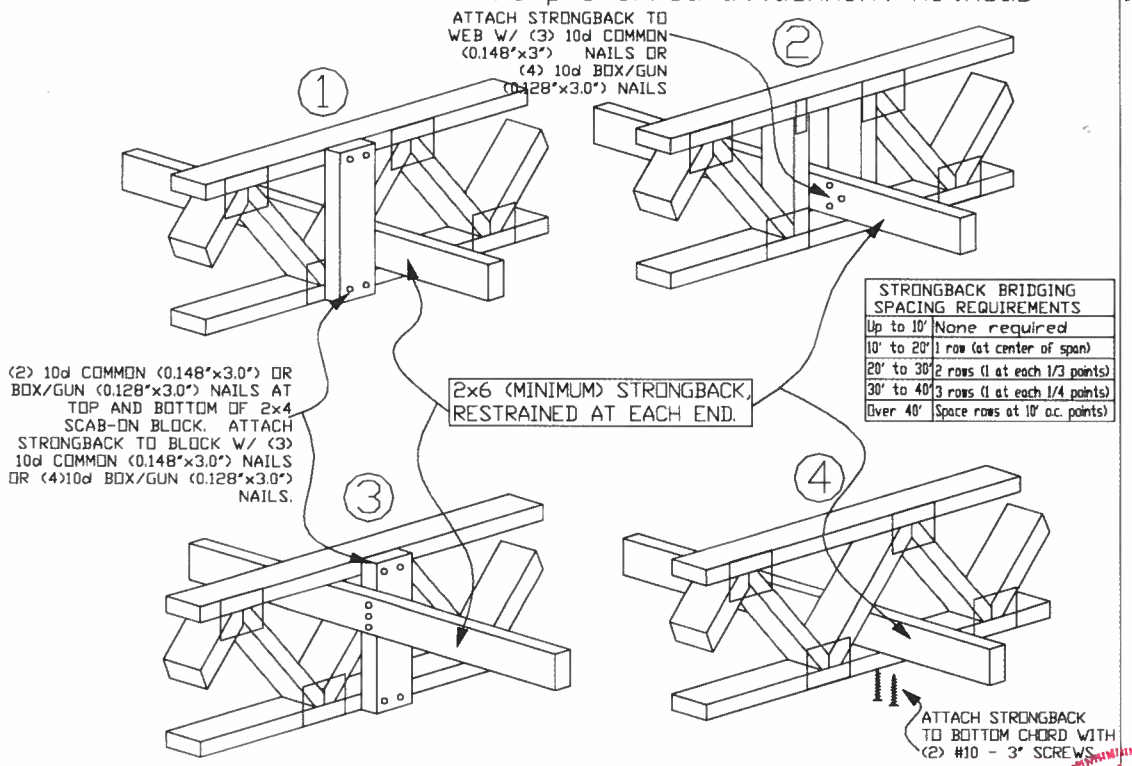
STRONGBACK BRIDGING RECOMMENDATIONS



NOTE: IN LIEU OF SPLICING AS SHOWN, LAP STRONGBACK BRIDGING MEMBERS FOR AT LEAST ONE TRUSS SPACING

STRONGBACK BRIDGING SPLICE DETAIL

NOTE: Details 1 and 2 are the preferred attachment methods



STRONGBACK BRIDGING SPACING REQUIREMENTS	
Up to 10'	None required
10' to 20'	1 row (at center of span)
20' to 30'	2 rows (1 at each 1/3 points)
30' to 40'	3 rows (1 at each 1/4 points)
Over 40'	Space rows at 10' o.c. points)

STRONGBACK BRIDGING ATTACHMENT ALTERNATIVES

- All scab-on blocks shall be a minimum 2x4 "stress graded lumber."
- All strongback bridging and bracing shall be a minimum 2x6 "stress graded lumber."
- The purpose of strongback bridging is to develop load sharing between individual trusses, resulting in an overall increase in the stiffness of the floor system. 2x6 strongback bridging, positioned as shown in details, is recommended at 10' -0" o.c. (max.)
- The terms "bridging" and "bracing" are sometimes mistakenly used interchangeably. "Bracing" is an important structural requirement of any floor or roof system. Refer to the Truss Design Drawing (TDD) for the bracing requirements for each individual truss component. "Bridging," particularly "strongback bridging" is a recommendation for a truss system to help control vibration. In addition to aiding in the distribution of point loads between adjacent truss, strongback bridging serves to reduce "bounce" or residual vibration resulting from moving point loads, such as footsteps.

The performance of all floor systems are enhanced by the installation of strongback bridging and therefore is strongly recommended by Alpine.

For additional information regarding strongback bridging, refer to BCSI (Building Component Safety Information).

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

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

Oct 19 16

TC LL	PSF	REF STRONGBACK
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG STRBRIBR1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

10/19/2016

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES
Revised 7/1/15

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable Yes	No	N/A
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.)** 1649 **Total (Sq. Ft.) under roof** 2257	IIIIIIII	IIIIIIII	IIIII

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

Site Plan information including:

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

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

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

Elevations Drawing including:

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

Floor Plan including:

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

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

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

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	✓		
30	All posts and/or column footing including size and reinforcing	✓		
31	Any special support required by soil analysis such as piling.	✓		
32	Assumed load-bearing valve of soil 1,500 Pound Per Square Foot	✓		
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) **For structures** with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	✓		

FBCR 506: CONCRETE SLAB ON GRADE

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

FBCR 318: PROTECTION AGAINST TERMITES

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

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

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

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

Floor Framing System: First and/or second story

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

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	✓		
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	✓		
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	✓		
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	✓		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCB 2308.9.5	✓		
57	Indicate where pressure treated wood will be placed	✓		
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	✓		
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	✓		

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.1.7.1 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	✓		
64	Provide dead load rating of trusses	✓		

FBCR 802:Conventional Roof Framing Layout

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

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

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

FBCR Energy Conservation R.401

Residential construction shall comply with this code by using the following compliance methods in the Residential buildings compliance methods. **Two of the required forms are to be submitted**, *R 402-2014 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form R 402-2014, 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 YES	NO	N/A
73	Show the insulation R value for the following areas of the structure	✓		
74	Attic space	✓		
75	Exterior wall cavity	✓		
76	Crawl space	✓		

HVAC information

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

Plumbing Fixture layout shown

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

Private Potable Water

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

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	✓		
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by **Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A**	✓		
87	Show the location of smoke detectors & Carbon monoxide detectors	✓		
88	Show service panel, sub-panel, location(s) and total ampere ratings	✓		
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. **For structures** with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	✓		
90	Appliances and HVAC equipment and disconnects	✓		
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed **Combination arc-fault circuit interrupter,** Protection device. NEC 210.12A	✓		

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	**Building Permit Application** A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a **$15.00** application fee. The completed application with attached documents and application fee can be mailed.	✓		
93	**Parcel Number** The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	✓		
94	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	✓		
95	**City of Lake City** A City Water and/or Sewer letter. Call 386-752-2031			✓
96	**Toilet facilities shall be provided for all construction sites**	✓		
97	**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.			✓
98	**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			✓
99	**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.	✓		
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is **$50.00**	✓		
101	**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.			✓
102	**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.	✓		

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

Notice Of Commencement

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

Section R101.2.1 of the Florida Building Code Residential:

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

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.

BRYAN ZECHER HOMES
LAKE CITY, FLORIDA

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	THERMA-TRU	EXTERIOR HINGED DOORS	FL 5891-R3
B. SLIDING	PGT	SLIDING GLASS DOORS	FL 251-R15
C. SECTIONAL/ROLL UP		GARAGE DOORS	FL 5678-R2
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	PGT	WINDOW	FL 239-R19
B. HORIZONTAL SLIDER	PGT	WINDOW	FL 242-R16
C. CASEMENT			
D. FIXED	PGT	WINDOW	FL 243-R14
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	CERTAINTEED	CEMENT FIBERED SIDING	FL 1573-R2
B. SOFFITS	KAYCON	ALUMINUM SOFFIT/FACIA	FL 12198-R1
C. STOREFRONTS	STO	STUCCO FINISH	FL 15026-R1
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	CERTAINTEED	ARCH SHINGLES - 30 YR	FL 5444-R3
B. NON-STRUCTURAL METAL	GAF	TAR PAPER	FL 4911-R3
C. ROOFING TILES	OMG	ROOFING NAILS	FL 699-R3
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS	USPC	ANCHORS	FL 5631-R1
B. WOOD ANCHORS	USPC	ANCHORS	FL 5631-R1
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

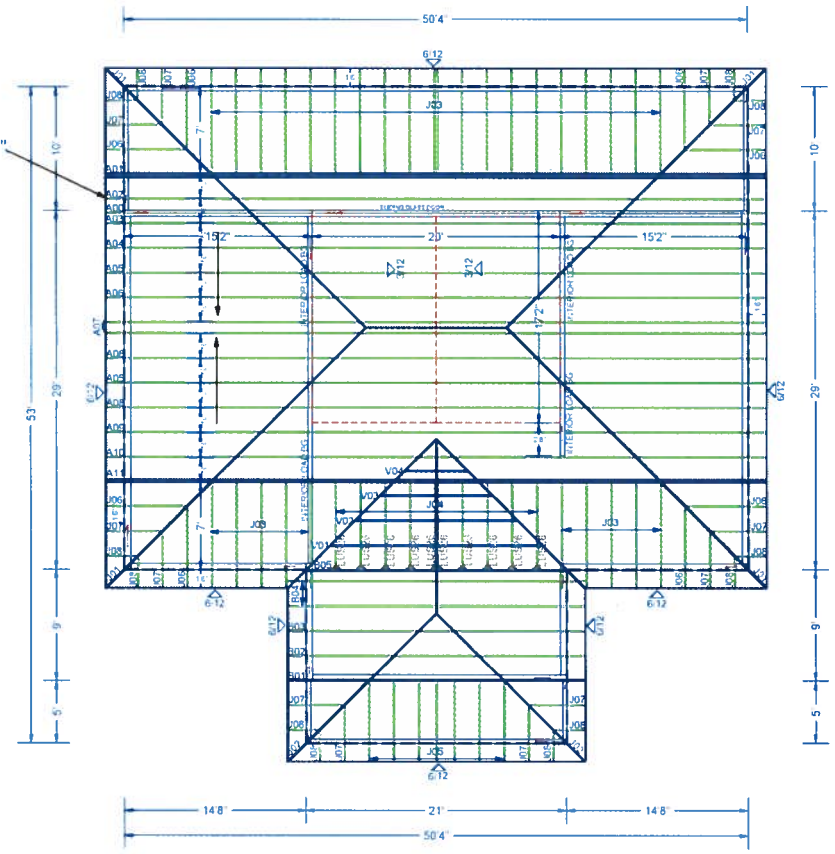
The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product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

Contractor OR Agent Signature _____ Date _____

BRYAN ZECHER

NOTES: _____

PRELIMINARY LAYOUT



DEFLECTION:

- A02 HAS HORIZONTAL DEFLECTION OF .30"

PER CONV'D WITH B. Z. 8/18/16

- KEEP VAULT CENTERLINE AT CENTER OF DOOR
- PICK UP BEARING WALLS ON EITHER SIDE OF VAULT
- KEEP SPAN 50'4"

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

W.B. Howland Truss Co.
P.O. Box 700
Live Oak, FL 32064
(386)362-1235
(386)362-7124 (fax)

ROOF PITCH 3.5/12 6/12
CLG PITCH 3/12
OVERHANG 1'6"
LOADING 40
WIND LOAD 130
EXPOSURE C
FBC 2010 RESIDENTIAL
EXT. WALLS 2x6 FRAMING
REV. DATE 8/19/16

NOTES:

- ALL VALLEYS BUILT INTO TRUSS DESIGN USING VALLEY TRUSSES.

- HEEL HEIGHT RAISED TO ALLOW FOR A 2x6 TOP CHORD ON ALL TRUSSES WITH 50' OR GREATER SPAN FOR SAFE HANDLING AND INSTALLATION.

- A01 TRUSS 3-PLY TO ELIMINATE SIGNIFICANT VERTICAL DEFLECTION.

- (10) TRUSS TO TRUSS CONNECTIONS.

JOB #: 16-0765B

Job Name: MCCALL RESIDENCE
Customer: ZECHER CONSTRUCTION
Designer: Chris McCall
ADDRESS:
SALESMAN: DB
: <Not Found>

JOB NO:
16-0765B

PAGE NO:
1 OF 1

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

Alpine, an ITW Company

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number: 0 27
Florida Certificate of Product Approval # FL1999
 Document ID:1VU2215-Z0214085041

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

Truss Fabricator:	W.B. Howland
Job Identification:	16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL
Truss Count:	28
Model Code:	Florida Building Code 5th Edition (2014)
Truss Criteria:	TPI-2007(STD)
Engineering Software:	Alpine Software,Version 16.01.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 130 MPH ASCE 7-10 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

09/14/2016
William H. Krick
-Truss Design Engineer-

2400 Lake Orange Dr. Suite 150
Orlando FL. 32837

Details: BRCLBSUB-VAL16010-

#	Ref	Description	Drawing#	Date
1	60954--A01		16258028	09/14/16
2	60955--A02		16258001	09/14/16
3	60956--A03		16258015	09/14/16
4	60957--A04		16258016	09/14/16
5	60958--A05		16258017	09/14/16
6	60959--A06		16258018	09/14/16
7	60960--A07		16258019	09/14/16
8	60961--A08		16258020	09/14/16
9	60962--A09		16258021	09/14/16
10	60963--A10		16258022	09/14/16
11	60964--A11		16258023	09/14/16
12	60965--B01		16258024	09/14/16
13	60966--B02		16258002	09/14/16
14	60967--B03		16258003	09/14/16
15	60968--B04		16258004	09/14/16
16	60969--B05		16258025	09/14/16
17	60970--J01		16258026	09/14/16
18	60971--J02		16258027	09/14/16
19	60972--J03		16258005	09/14/16
20	60973--J04		16258006	09/14/16
21	60974--J05		16258007	09/14/16
22	60975--J06		16258008	09/14/16
23	60976--J07		16258009	09/14/16
24	60977--J08		16258010	09/14/16
25	60978--V01		16258011	09/14/16
26	60979--V02		16258012	09/14/16
27	60980--V03		16258013	09/14/16
28	60981--V04		16258014	09/14/16

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

#1 hip supports 7-0-0 jacks with no webs.

Left side jacks have 7-0-0 setback with 0-0-0 cant and 1-6-0 overhang.
End jacks have 7-0-0 setback with 0-0-0 cant and 1-6-0 overhang.
Right side jacks have 7-0-0 setback with 0-0-0 cant and 0-0-0 overhang.

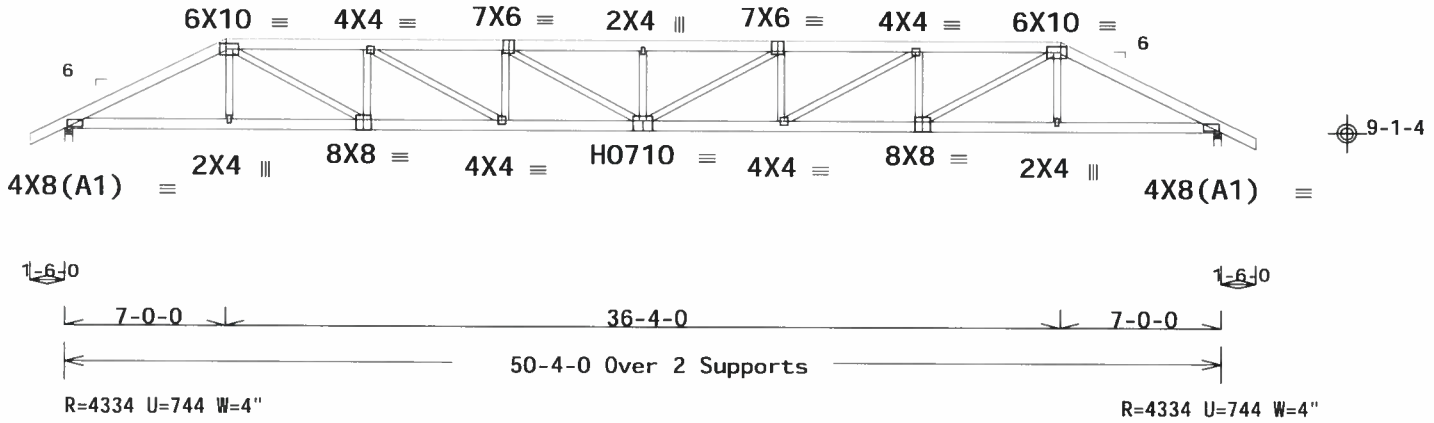
3 COMPLETE TRUSSES REQUIRED

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

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 16.01.00.0413.17 QTY:1 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE™
AN ITW COMPANY
2400 Lake Orange Dr Suite 150
Orlando FL 32837
FL COA #0278

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 WTCA) 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 & 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; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

WILLIAM H. KERLICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60954
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258028
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447680
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Calculated horizontal deflection is 0.12" due to live load and 0.18" due to dead load.

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

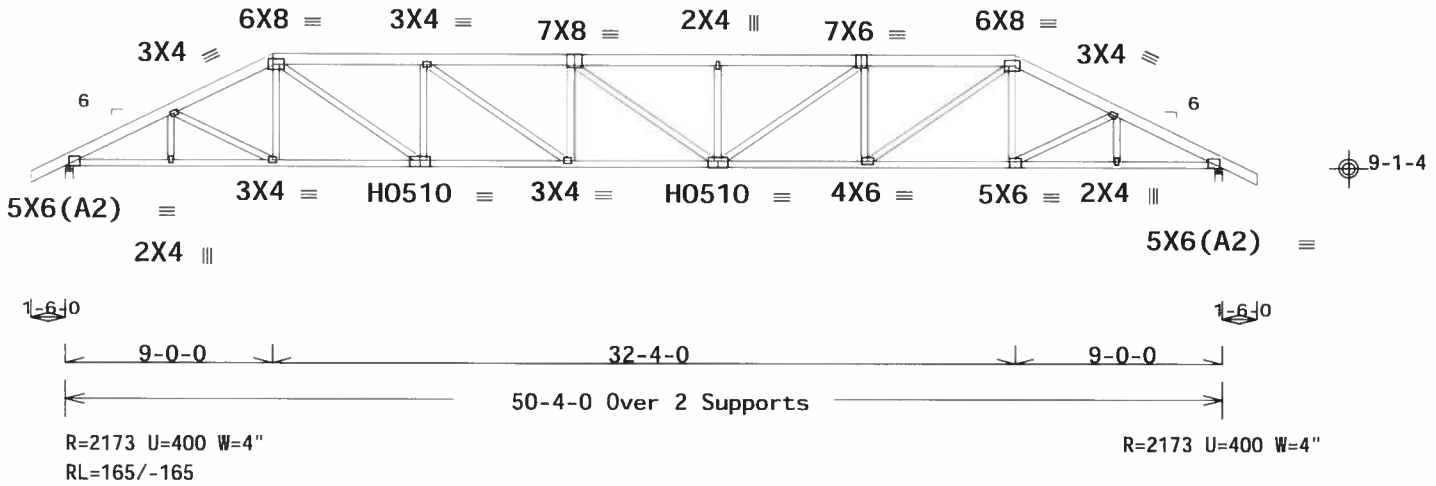
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave | FT/RT=20%(0%)/10(0) | 16.11.00.0413.17 | QTY:1 | FL/-/1/-/-/R/- | Scale =.125"/Ft.

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

ALPINE™ AN ITW COMPANY

2400 Lake Orange Dr., Suite 150
Orlando, FL 32837
FL COA #0278

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TC LL	20.0 PSF	REF	R215-- 60955
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258001
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447656
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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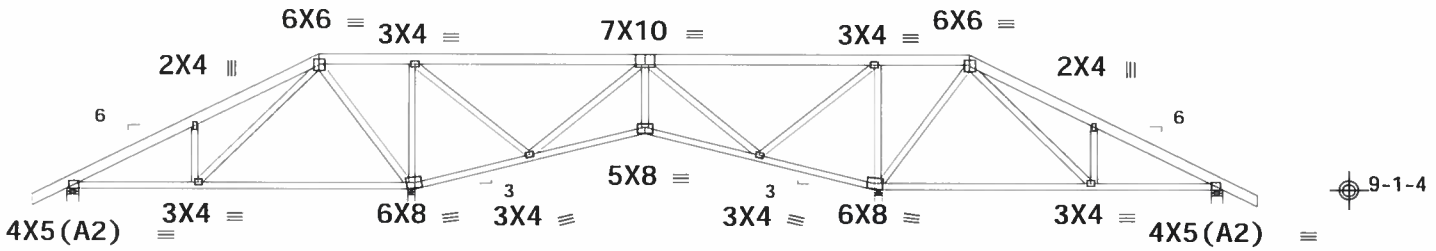
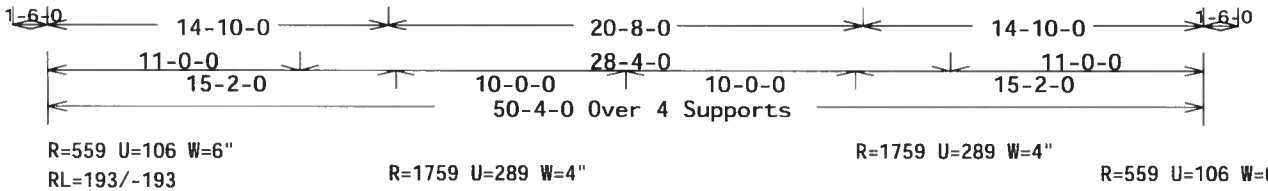
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.





Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 16-11-00-0413.17 | QTY:1 | FL/-/1/-/-/R/- | Scale =.125"/Ft.

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2400 Lake Orange Dr, Suite 150
Orlando, FL 32837
FL COA #0278

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60956
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258015
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450619
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - A04)

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

(a) Continuous lateral restraint equally spaced on member.

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

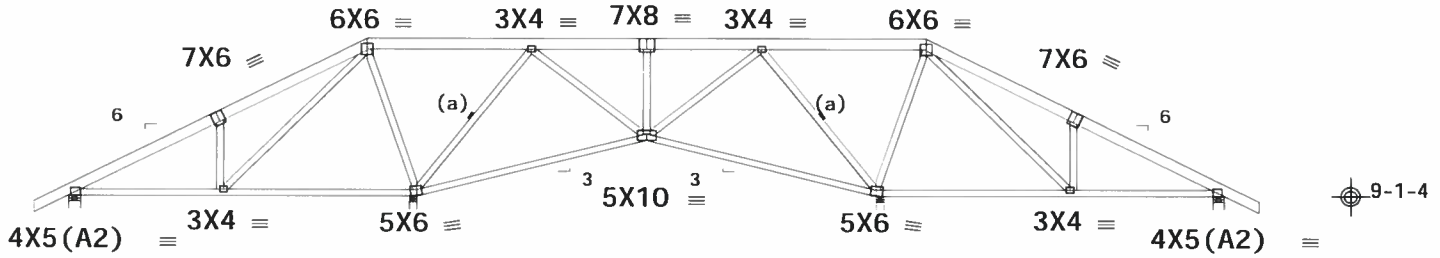
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

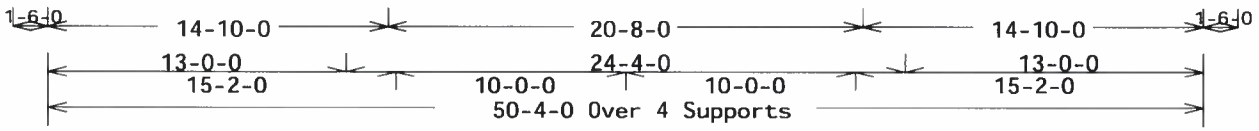
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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





R=567 U=113 W=6"
RL=222/-222

R=1728 U=279 W=4"

R=1728 U=279 W=4"

R=567 U=113 W=6"

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 16 03:00:04 13:17 | QTY:1 | FL/-/1/-/-/R/- | Scale =.125"/Ft.

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr, Suite 150
Orlando, FL 32837
FL COA #0 278

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60957
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258016
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450616
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

09/14/2016

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - A05)

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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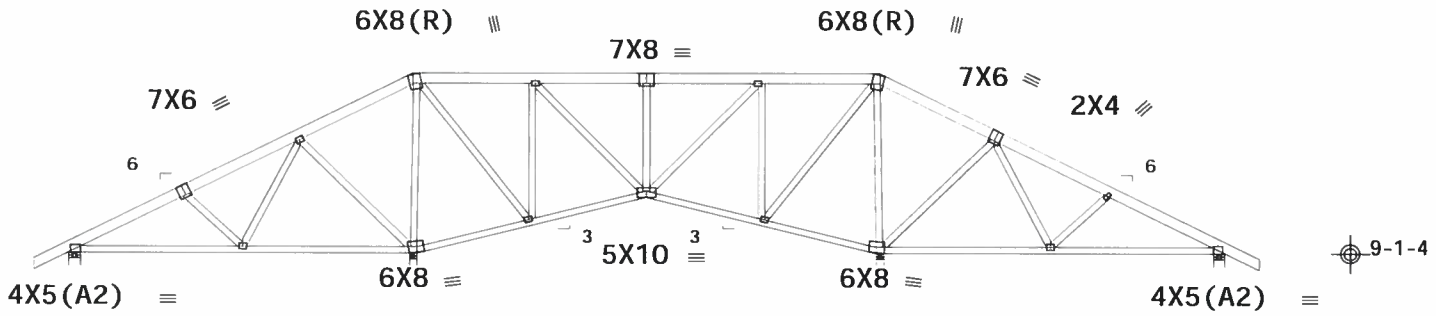
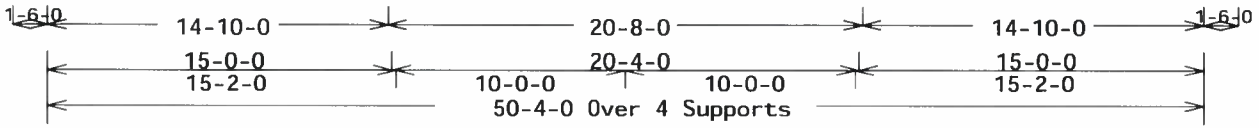
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.





R=552 U=23 W=6"
RL=250/-250

R=1729 U=93 W=4"

R=1730 U=69 W=4"

R=552 U=62 W=6"

Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave

FT/RT=20%(0%)/10(0)

16.01.00-8413-17

QTY:2

FL/-/1/-/-/R/-

Scale =.125"/Ft.

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Orlando, FL 32837
FL COA #0 278

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60958
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258017
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450607
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

09/14/2016

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

(a) Continuous lateral restraint equally spaced on member.

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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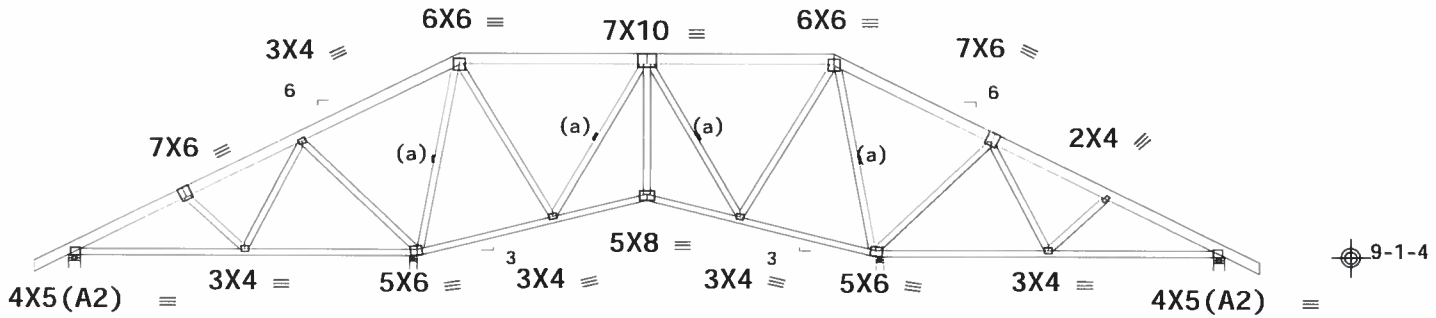

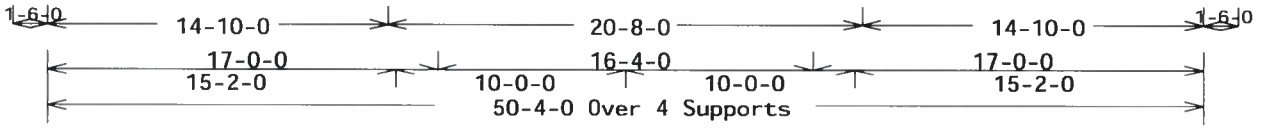

R=555 U=23 W=6"
RL=278/-278

R=1716 U=94 W=4"

R=1717 U=64 W=4"

R=555 U=66 W=6"

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

16.03.00.84.13.17

QTY:2

FL/-/1/-/-/R/-

Scale =.125"/Ft.

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60959
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258018
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450610
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - A07)

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

(a) Continuous lateral restraint equally spaced on member.

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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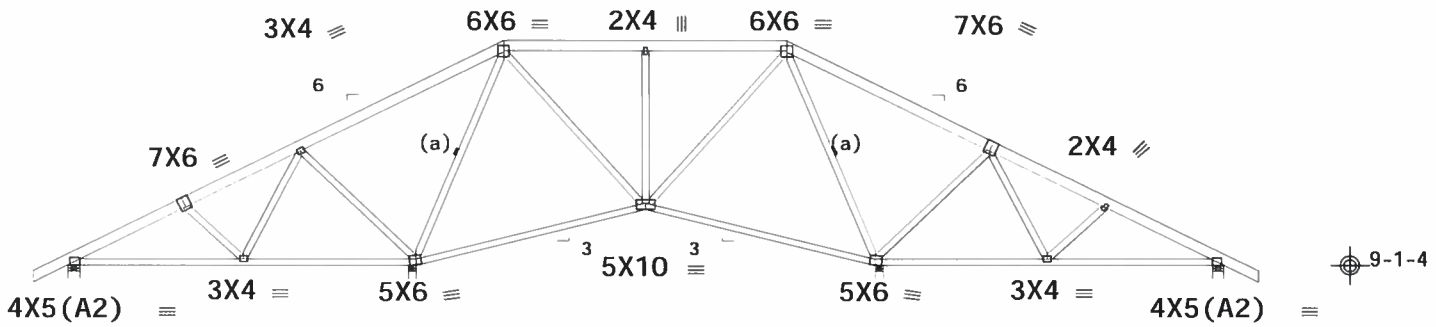

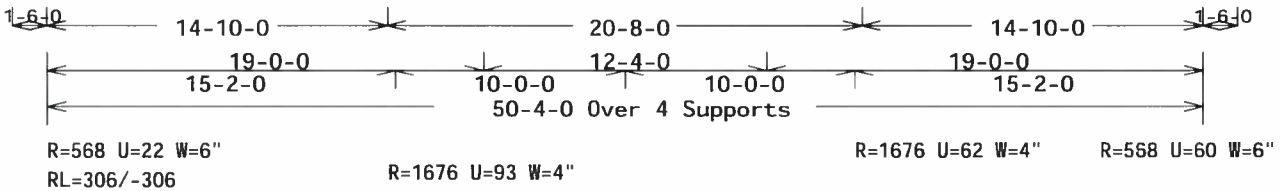

R=568 U=22 W=6"
RL=306/-306

R=1676 U=93 W=4"

R=1676 U=62 W=4"

R=568 U=60 W=6"

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16 01 00 0413 17 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

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2400 Lake Orange Dr, Suite 150
Orlando, FL 32837
FL COA #0 278

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60960
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258019
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450613
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - A08)

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

(a) Continuous lateral restraint equally spaced on member.

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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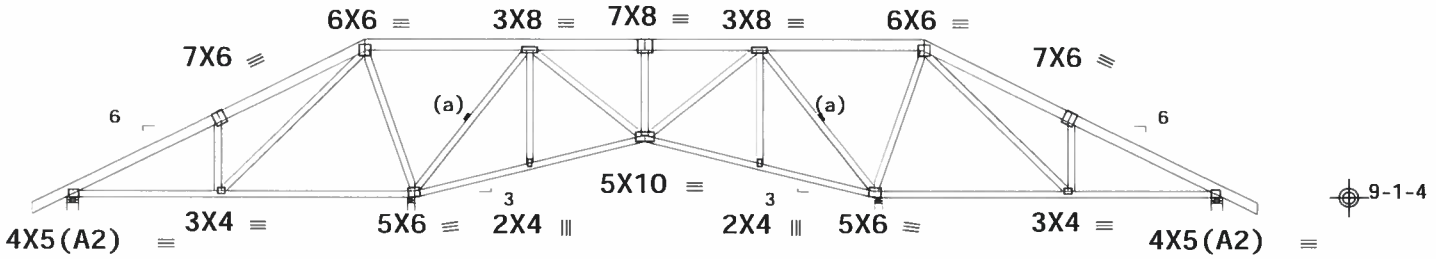

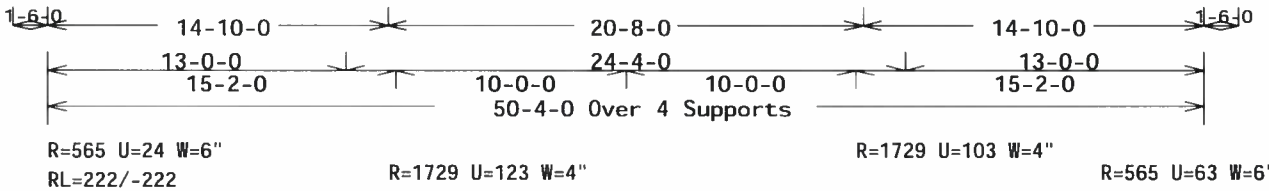

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 16.01.00.0413.17 | QTY:1 | FL/-/1/-/-/R/- | Scale =.125"/Ft.

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60961
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258020
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450603
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - A09)

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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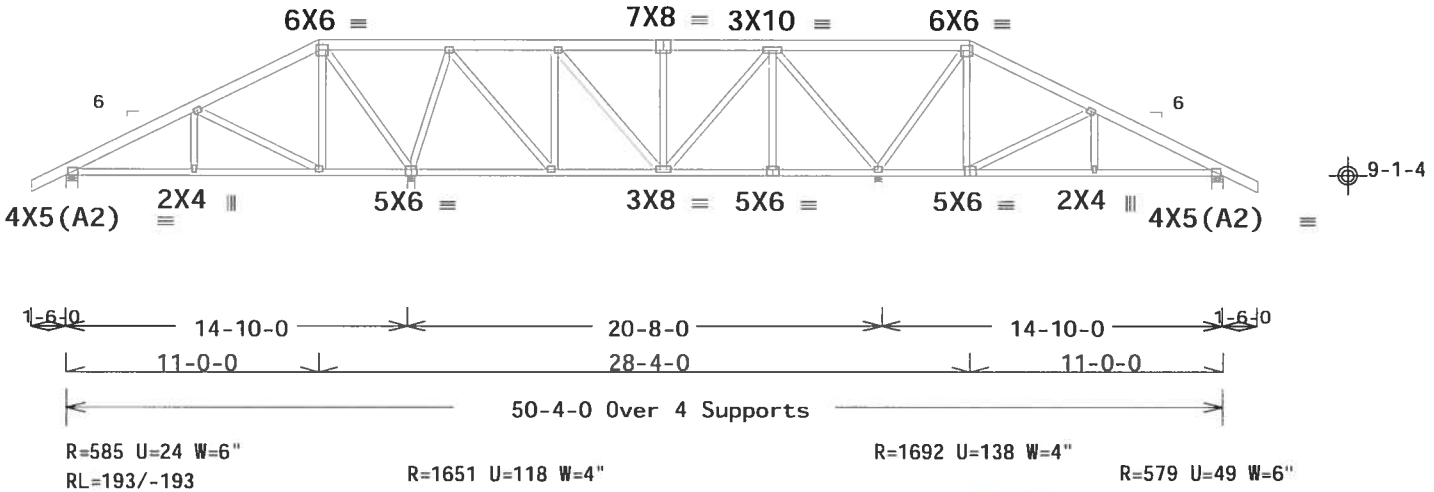
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0413.17 QTY:1 FL/-/1/-/-/R/- Scale =.125"/Ft.

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FL COA #0278

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60962
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258021
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450596
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

09/14/2016

Top chord 2x6 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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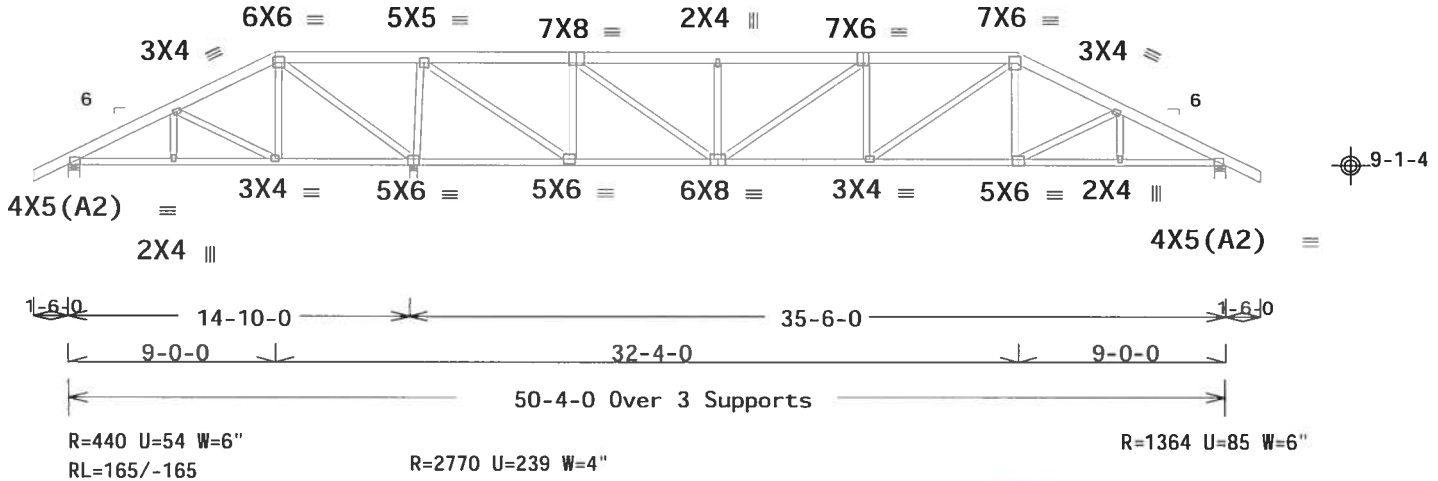
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0418.17 QTY:1 FL/-/1/-/-/R/- Scale =.125"/Ft.

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Orlando, FL 32837
FL COA #0 278

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TC LL	20.0 PSF	REF	R215-- 60963
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258022
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450593
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

09/14/2016

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Special loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 62 plf at -1.50 to 62 plf at 7.00
TC- From 31 plf at 7.00 to 31 plf at 43.33
TC- From 62 plf at 43.33 to 62 plf at 51.83
BC- From 4 plf at -1.50 to 4 plf at 0.00
BC- From 20 plf at 0.00 to 20 plf at 7.03
BC- From 10 plf at 7.03 to 10 plf at 43.30
BC- From 20 plf at 43.30 to 20 plf at 50.33
BC- From 4 plf at 50.33 to 4 plf at 51.83
TC- 75.49 lb Conc. Load at 7.03,43.30
TC- 270.50 lb Conc. Load at 7.06,43.27
TC- 195.01 lb Conc. Load at 9.06,11.06,13.06,15.06 35.27,37.27,39.27,41.27
TC- 203.04 lb Conc. Load at 17.06,19.06,21.06,23.06 25.06,25.27,27.27,29.27,31.27,33.27
BC- 603.87 lb Conc. Load at 7.03,43.30
BC- 132.87 lb Conc. Load at 9.06,11.06,13.06,15.06 35.27,37.27,39.27,41.27
BC- 134.51 lb Conc. Load at 17.06,19.06,21.06,23.06 25.06,25.27,27.27,29.27,31.27,33.27

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

2 COMPLETE TRUSSES REQUIRED

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

Negative reaction(s) of -325# MAX. (See below) from a non-wind load case requires uplift connection.

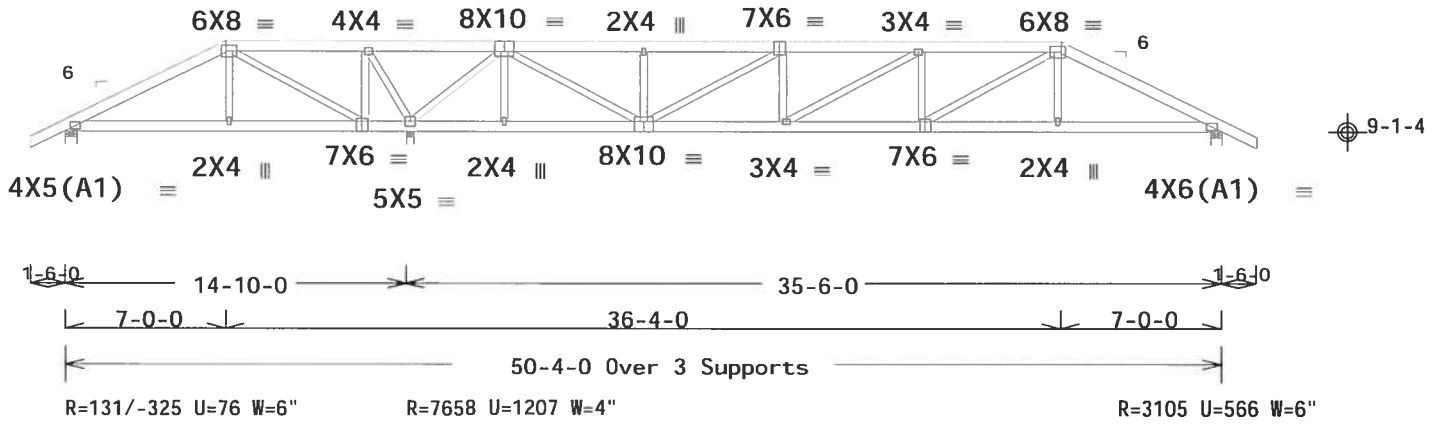
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0413.37 QTY:1 FL/-/1/-/-/R/- Scale =.125"/Ft.

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Orlando, FL 32837
FL COA #0 278

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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) 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-7 for standard plate positions.

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

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/14/2016

TC LL	20.0 PSF	REF	R215-- 60964
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258023
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	450590
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - B01)

Top chord 2x4 SP M-31 :T2 2x6 SP M-31:
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

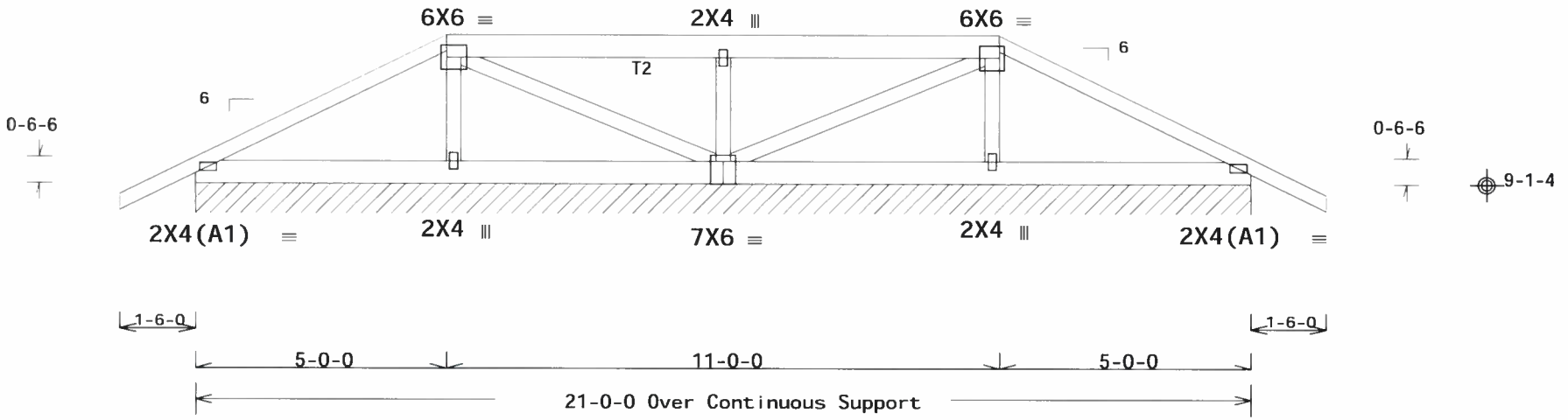
Wind loads and reactions based on MWFRS.

#1 hip supports 5-0-0 jacks with no webs.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



R=137 PLT U=24 PLT W=21-0-0

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0413.97 QTY:1 FL/-/1/-/-/R/- Scale =.3125"/Ft.

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2400 Lake Orange Dr, Suite 150
Orlando, FL 32837
FL COA #0278

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/14/2016

TC LL	20.0 PSF	REF	R215-- 60965
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258024
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447638
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - B02)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

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

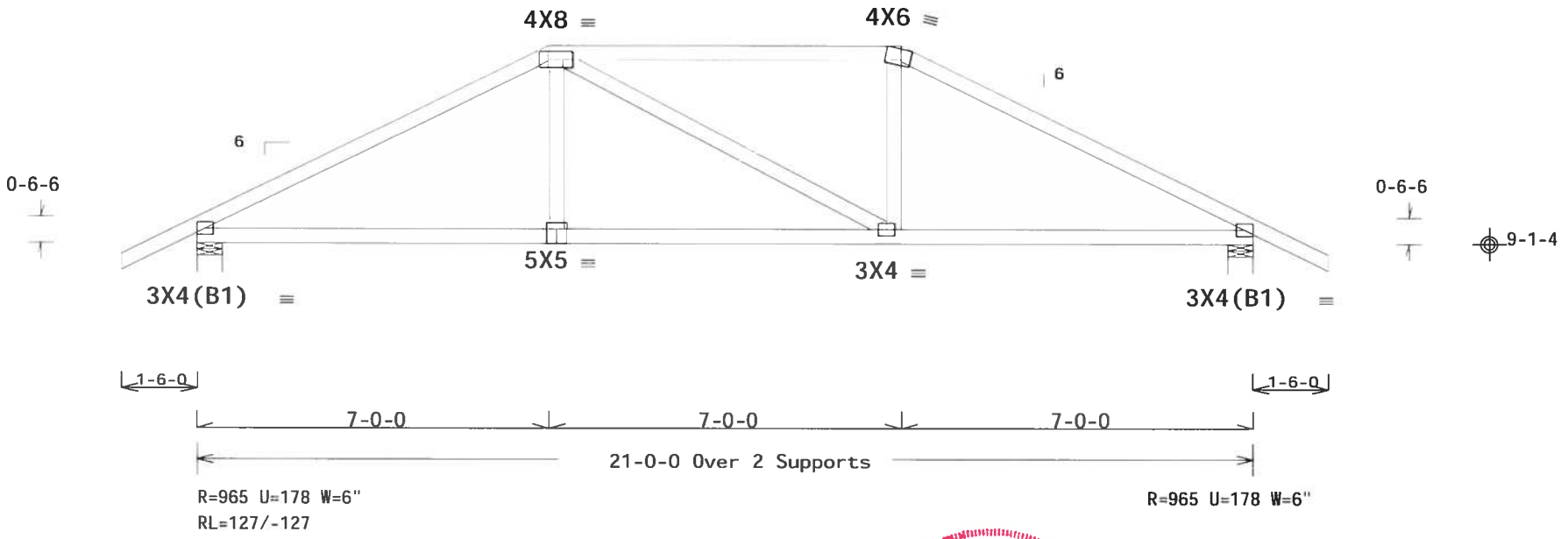
Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 16.01.00.0413.37 | QTY:1 | FL/-/1/-/-/R/- | Scale =.3125"/Ft.

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

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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, WTCA www.sbcindustry.com, ICC www.iccsafe.org

TC LL	20.0 PSF	REF	R215-- 60966
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258002
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447618
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

09/14/2016

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

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

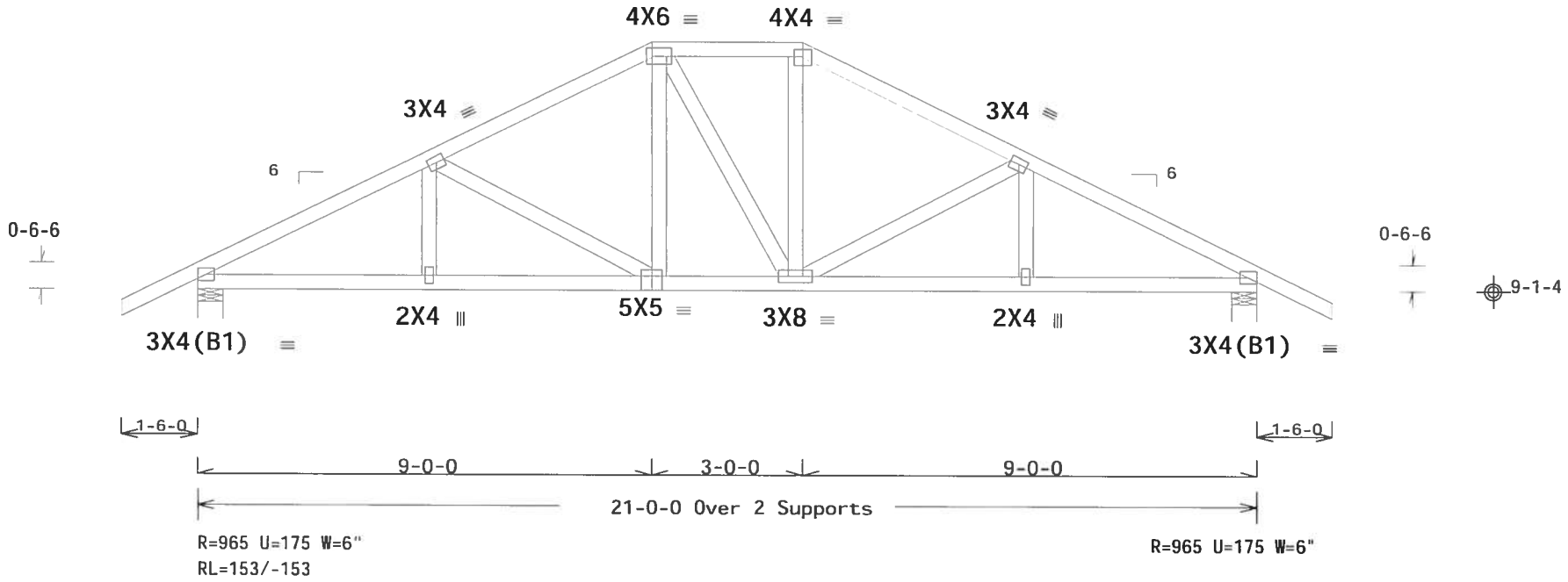
Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 16.01.00.0413.17 | QTY:1 | FL/-/1/-/-/R/- | Scale =.3125"/Ft.

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60967
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258003
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447627
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

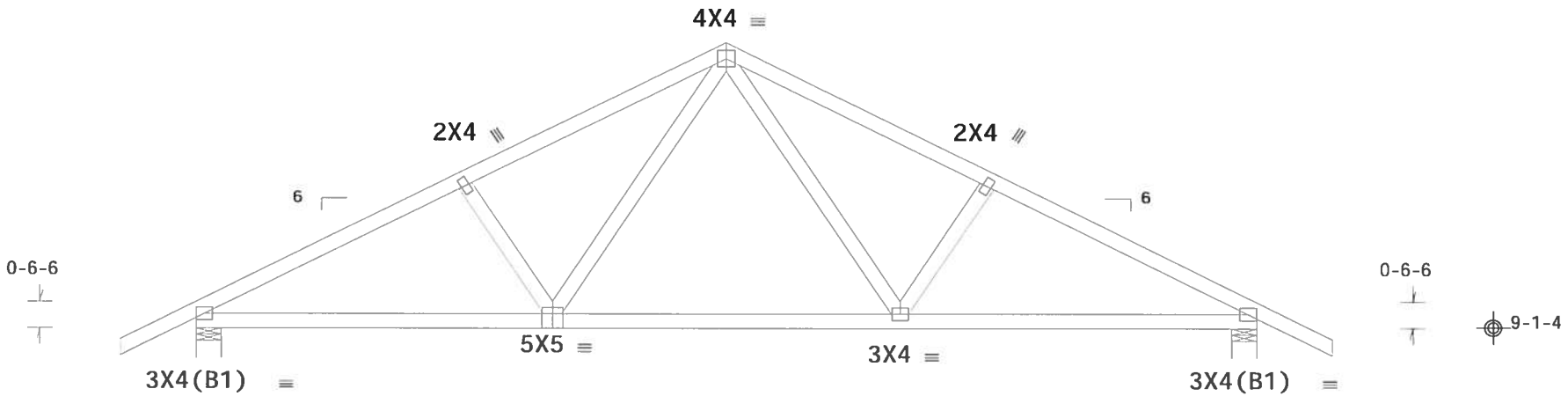
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0413.17 QTY:2 FL/-/1/-/-/R/- Scale =.3125"/Ft.

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60968
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258004
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447624
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - B05)

Top chord 2x4 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

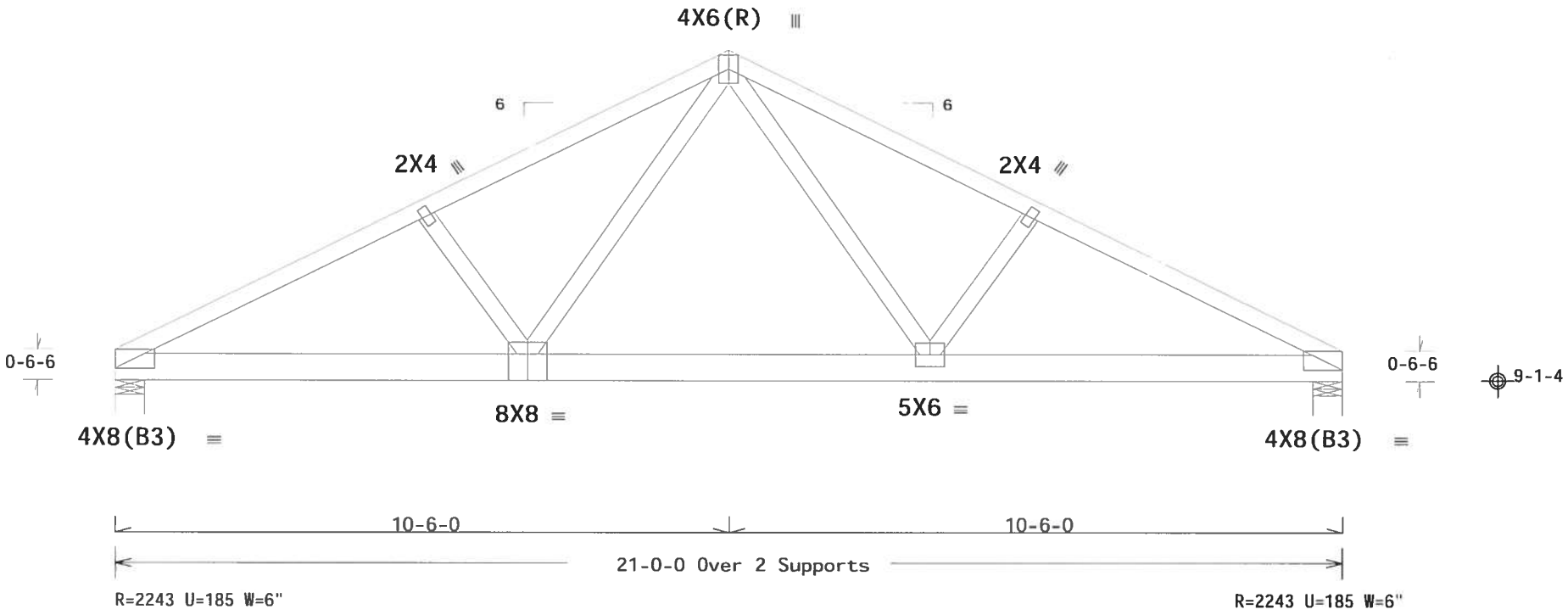
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

Bottom chord checked for 10.00 psf non-concurrent live load.

Special loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 62 plf at 0.00 to 62 plf at 10.50
TC- From 62 plf at 10.50 to 62 plf at 21.00
BC- From 20 plf at 0.00 to 20 plf at 2.40
BC- From 10 plf at 2.40 to 10 plf at 7.06
BC- From 10 plf at 7.06 to 10 plf at 18.60
BC- From 20 plf at 18.60 to 20 plf at 21.00
BC- 291.78 lb Conc. Load at 2.40, 4.40, 6.40, 8.40 10.40,10.60,12.60,14.60,16.60,18.60

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 16.01.00.0479.17 | QTY:1 | FL/-/1/-/-/R/- | Scale =.375"/Ft.

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ALPINE www.alpineitw.com; TPI www.tpinst.org; WTCA www.sbcindustry.com; ICC www.iccsafe.org

TC LL	20.0 PSF	REF	R215-- 60969
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258025
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447636
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

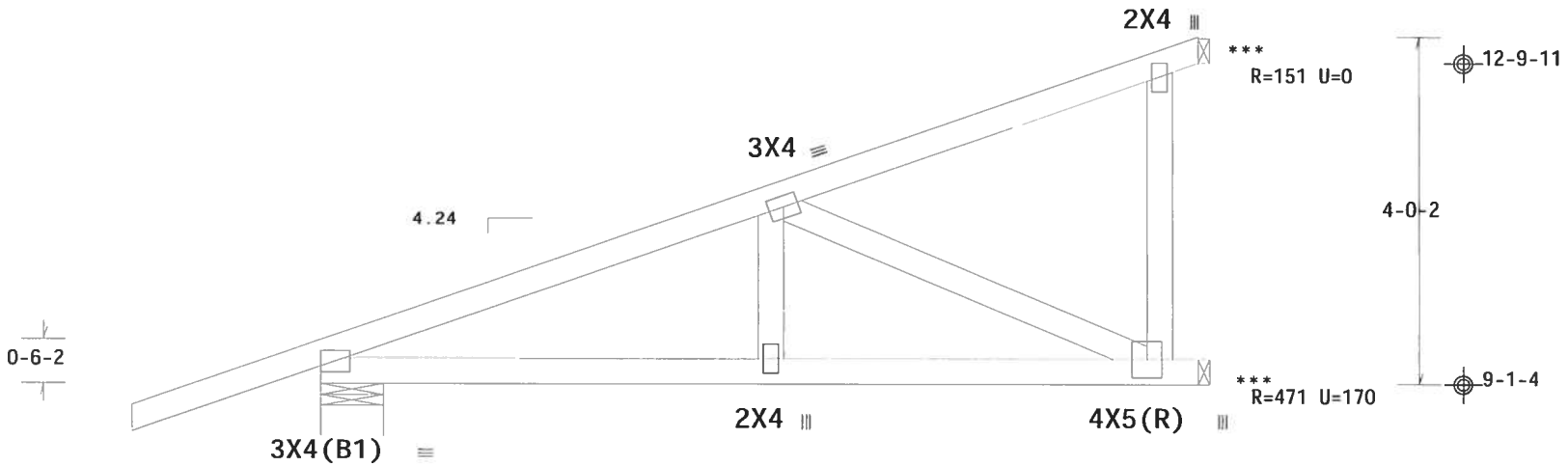
Wind loads and reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

***Provide (3) 16d common (0.162"x3.5") nails toe-nailed at top chord.
Provide (3) 16d common (0.162"x3.5") nails toe-nailed at bottom chord.
NOTE: THIS TOENAIL CONNECTION IS BASED ON AN AVERAGE OF TOP AND BOTTOM CHORD REACTIONS.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Hipjack supports 7-0-0 setback jacks with no webs.



Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

16.01.00.0419.17

QTY:4

FL/-/1/-/-/R/-

Scale =.5"/Ft.

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For more information see this job's general notes page and these web sites:
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WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60970
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258026
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447642
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

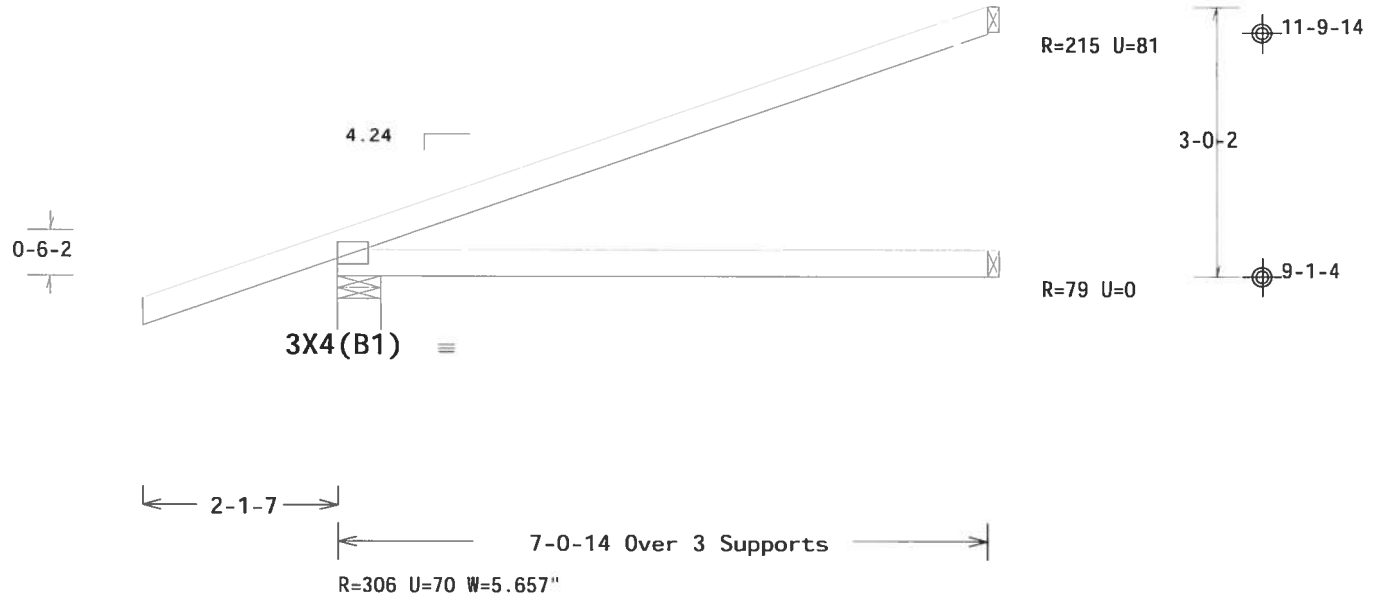
Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

Wind loads and reactions based on MWFRS.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Hipjack supports 5-0-0 setback jacks with no webs.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 16.01.00.04T3:17 | QTY:2 | FL/-/1/-/-/R/- | Scale =.5"/Ft.

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FL COA #0 278

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TC LL	20.0 PSF	REF	R215-- 60971
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258027
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447640
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

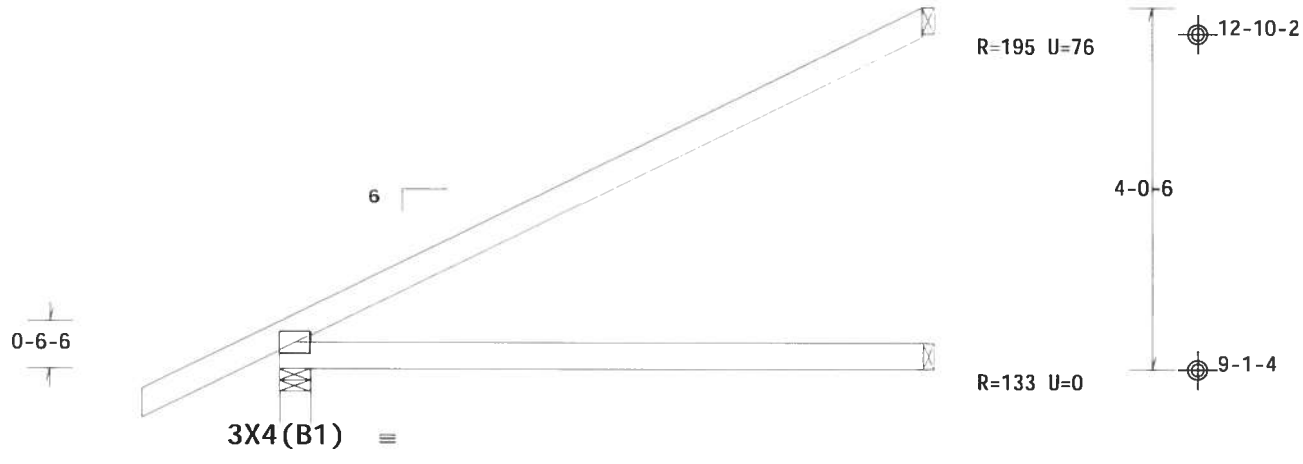
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



1-6-0

7-0-0 Over 3 Supports

R=404 U=51 W=4"
RL=121/-46

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0419.17 QTY:30 FL/-/1/-/-/R/- Scale =.5"/Ft.

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FL COA #0278

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60972
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258005
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447613
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bottom chord checked for 10.00 psf non-concurrent live load.

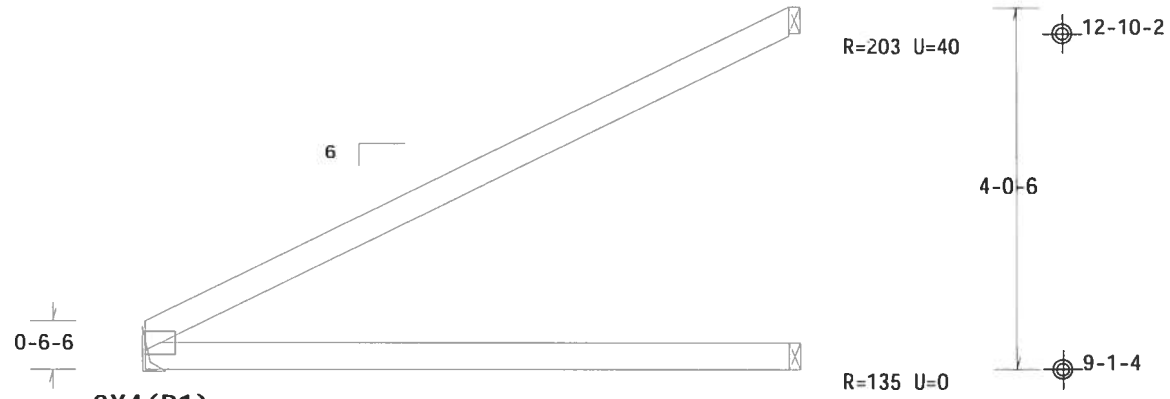
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

These support conditions used at bearings indicated
(H1) = LUS26 w/ (1)2x6 SP M-31 supporting member.
(4) 0.148"x3" nails into supporting member,
(3) 0.148"x3" nails into supported member.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.



7-0-0 Over 3 Supports

R=292 U=0
RL=66/-22
H=H1

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0418.17 QTY:10 FL/-/1/-/-/R/- Scale =.5"/Ft.

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60973
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258006
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447611
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

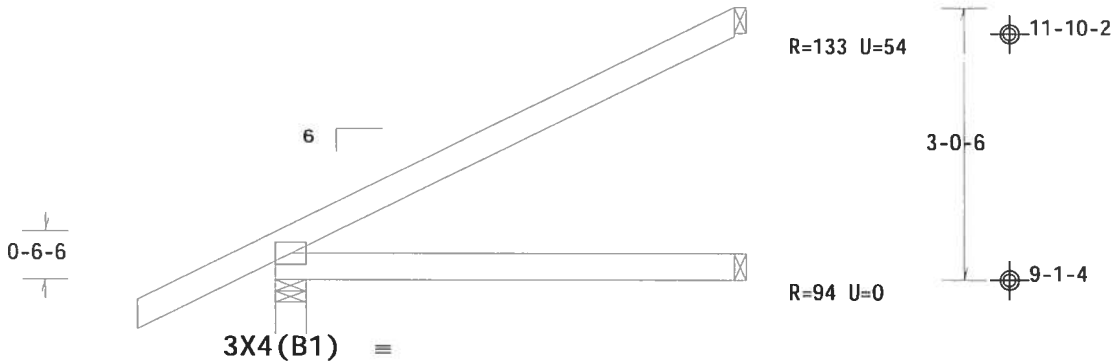
Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0410.17 QTY:7 FL/-/1/-/-/R/- Scale =.5"/Ft.

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WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60974
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258007
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447610
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

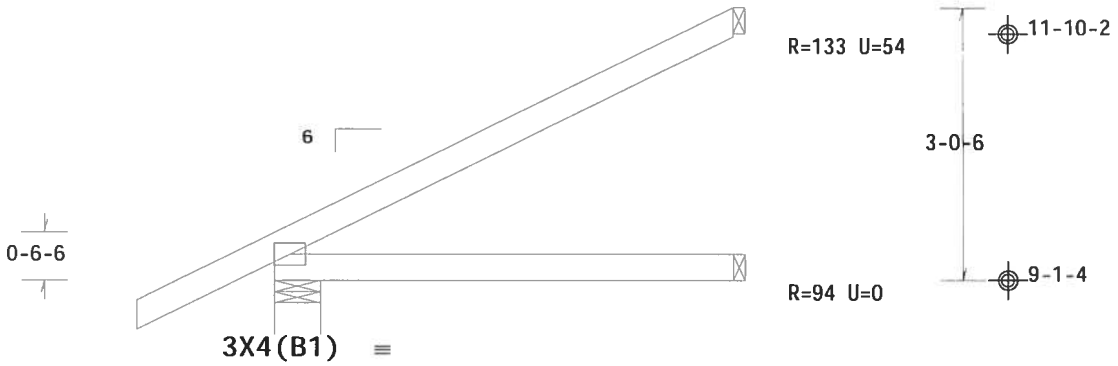
Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16 01 00 04 18 17 QTY:8 FL/-/1/-/-/R/- Scale =.5"/Ft.

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FL COA #0 278

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60975
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258008
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447620
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_ZO2

09/14/2016

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

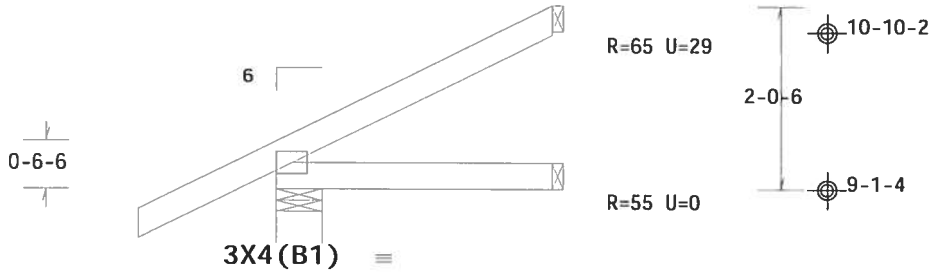
Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.8413.17 QTY:12 FL/-/1/-/-/R/- Scale =.5"/Ft.

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TC LL	20.0 PSF	REF	R215-- 60976
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258009
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447612
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

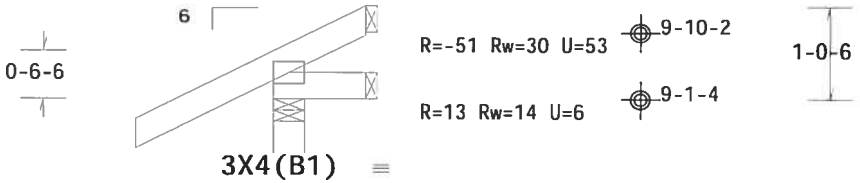
Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

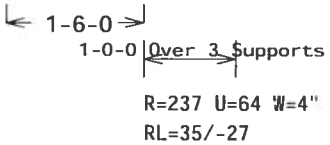
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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





Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.0413.17 QTY:12 FL/-/1/-/-/R/- Scale =.5"/Ft.

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TC LL	20.0 PSF	REF	R215-- 60977
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258010
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447615
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Bottom chord checked for 10.00 psf non-concurrent live load.

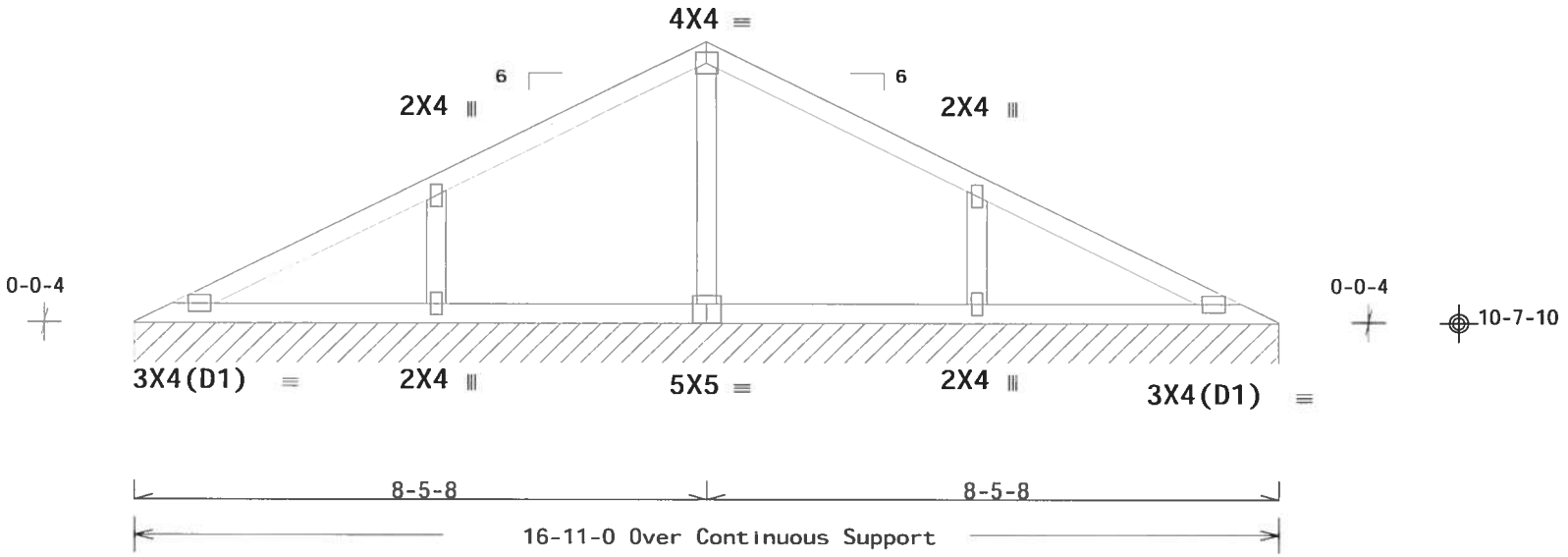
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

See DWG VAL160101014 for valley details.



R=81 PLF U=4 PLF W=16-11-0
RL=-6 PLF

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 16.01.00.0012.17 | QTY:1 | FL/-/1/-/-/R/- | Scale =.375"/Ft.

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TC LL	20.0 PSF	REF	R215-- 60978
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258011
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447675
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

09/14/2016

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - V02)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Bottom chord checked for 10.00 psf non-concurrent live load.

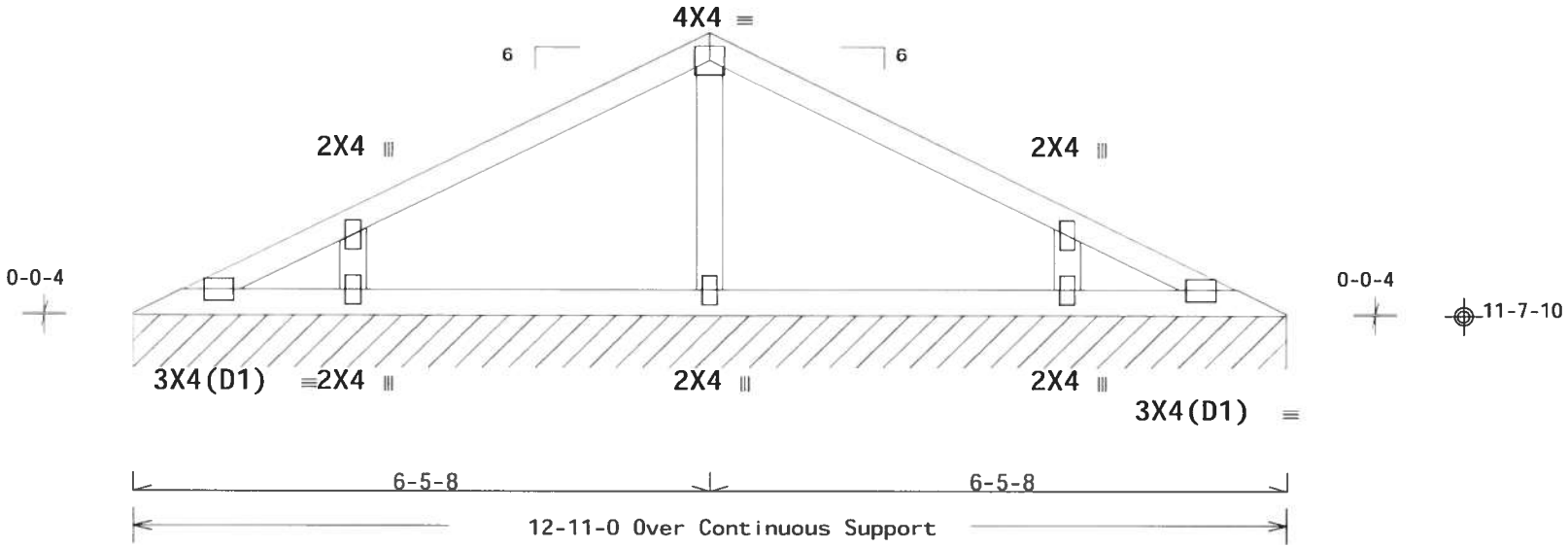
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

See DWG VAL160101014 for valley details.



R=81 PLF U=1 PLF W=12-11-0
RL=6/-6 PLF

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.04 18.17 QTY:1 FL/-/1/-/-/R/- Scale =.5"/Ft.

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TC LL	20.0 PSF	REF	R215-- 60979
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258012
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447676
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

09/14/2016

(16-0765-/MCCALL RESIDENCE /ZECHER CONSTRUCTION -- , FL - V03)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Bottom chord checked for 10.00 psf non-concurrent live load.

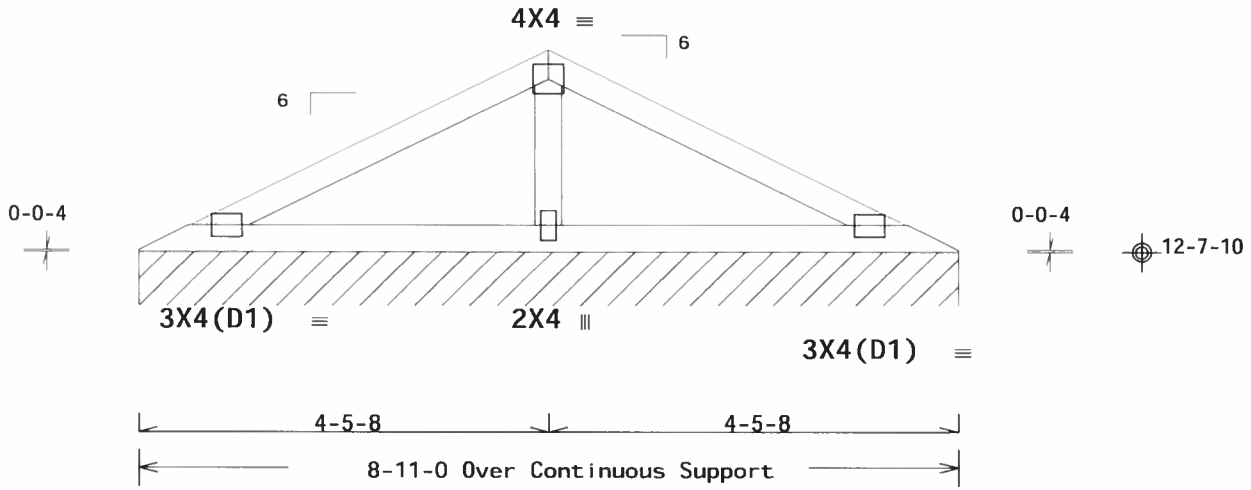
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

See DWG VAL160101014 for valley details.



R=80 PLF U=1 PLF W=8-11-0
RL=5/-5 PLF

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 16.01.00.04 8.17 QTY:1 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
AN ITW COMPANY

2400 Lake Orange Dr. Suite 150
Orlando, FL 32837
FL COA #0278

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 WTCA) 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 T60A-7 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 & 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; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60980
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258013
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447677
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

09/14/2016

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Bottom chord checked for 10.00 psf non-concurrent live load.

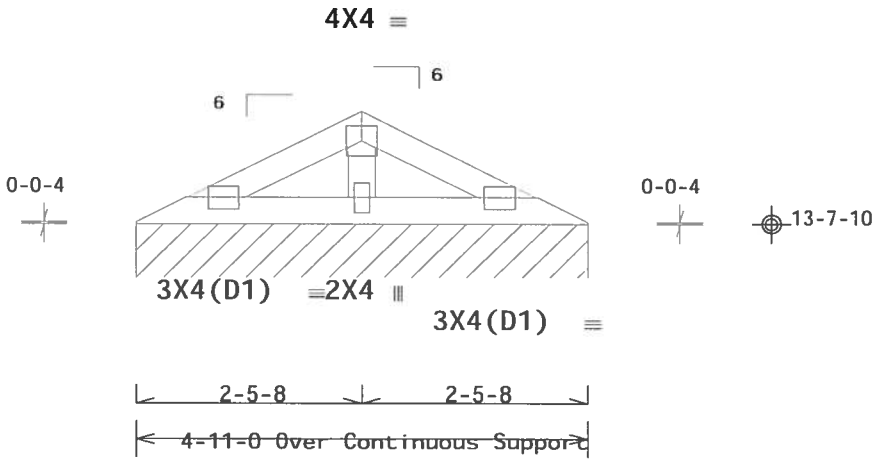
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

See DWG VAL160101014 for valley details.



R=78 PLF U=0 PLF W=4-11-0
RL=5/-5 PLF

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

16.01.00.0418.17 QTY:1 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr Suite 150
Orlando, FL 32837
FL COA #0 278

WILLIAM H. KRICK LICENSE No. 70861 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 60981
TC DL	10.0 PSF	DATE	09/14/16
BC DL	10.0 PSF	DRW	HCUSR215 16258014
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	447678
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VU2215_Z02

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.

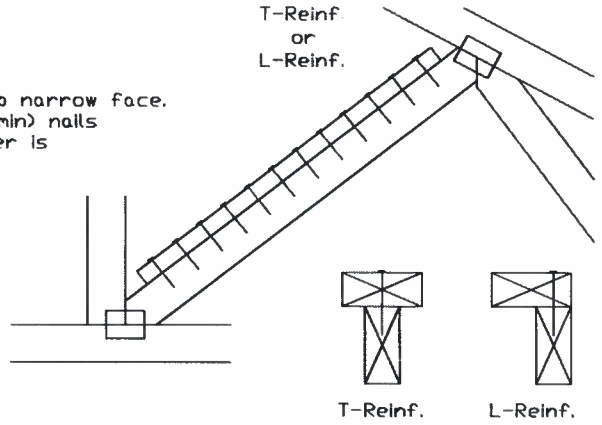
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

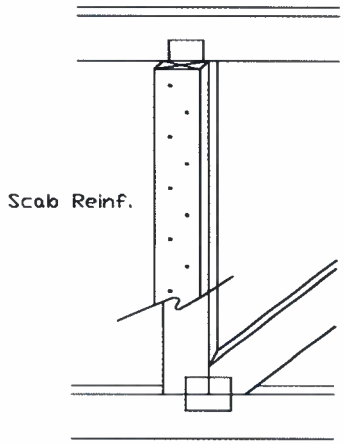
T-Reinforcement or L-Reinforcement:

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.



ALPINE
AN ITW COMPANY

13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING
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WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Sep '14 '16

TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG BRCLBSUB1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

09/14/2016

Valley Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
(2) 16d box (0.135" x 3.5") nails toe-nailed for
ASCE 7-10 160 mph. 30' Mean Height, Enclosed
Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-10 140 mph. 30' Mean Height, Enclosed
Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Bottom chord may be square or pitched cut as shown.

Valleys short enough to be cut as solid triangular members from a single 2x6, or larger as required, shall be permitted in lieu of fabricating from separate 2x4 members.

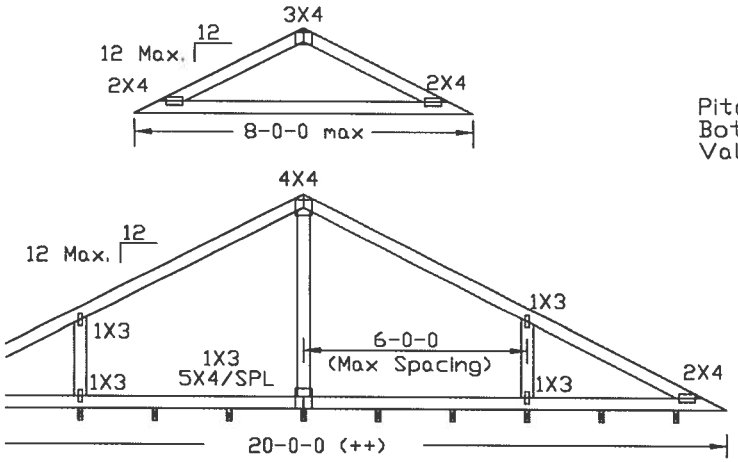
All plates shown are ITW BCG Wave Plates.

Unless specified otherwise on engineer's sealed design, for vertical valley webs taller than 7-9" apply 2x4 "T" reinforcement, 80% length of web, same species and grade or better, attached with 10d box (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous Lateral Restraint applied at mid-length of web is permitted with diagonal bracing as shown in DRWG BRCLBANC1014.

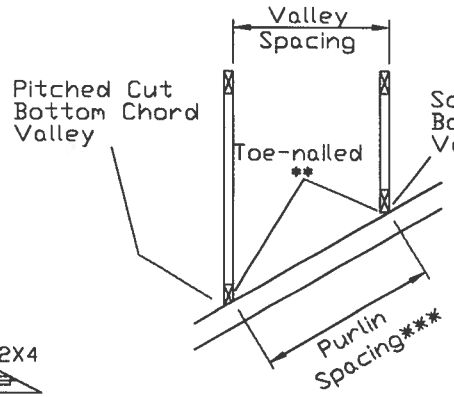
Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

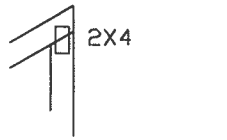
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".



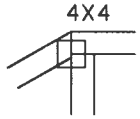
Supporting trusses at 24" o.c. maximum spacing.



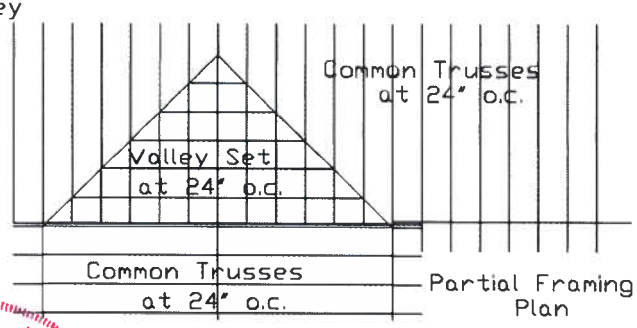


Square Cut Bottom Chord Valley

Stubbed Valley End Detail



Optional Hip Joint Detail



Partial Framing Plan

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

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WILLIAM H. KRICK
LICENSE
No. 70861
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Sep 14 '16

TC LL	30	30	40PSF	REF VALLEY DETAIL
TC DL	20	15	7PSF	DATE 10/01/2014
BC DL	10	10	10 PSF	DRWG VAL160101014
BC LL	0	0	0 PSF	
TOT. LD.	60	55	57PSF	
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24.0"		

09/14/2016

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2014 Florida Building Code, Energy Conservation via the residential Simulated Performance method shall include

- ☐ *This checklist*
- ☐ *A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (1 page) and an input summary checklist that can be used for field verification (usually 4 pages/may be greater).*
- ☐ *Energy Performance Level (EPL) Display Card (one page)*
- ☐ *Mandatory Requirements(three pages)*

Required prior to CO for the Performance Method:

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

FORM R405-2014

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	161425 McCall Res	Builder Name:	Bryan Zecher
Street:		Permit Office:	
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville	County::	columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)			
2. Single family or multiple family	Single-family			
3. Number of units, if multiple family	1			
4. Number of Bedrooms	3			
5. Is this a worst case?	Yes			
6. Conditioned floor area above grade (ft²)	1649			
Conditioned floor area below grade (ft²)	0			
7. Windows(292.5 sqft.)	Description		Area	
a. U-Factor:	Dbl, U=0.35		292.50	ft²
SHGC:	SHGC=0.25			
b. U-Factor:	N/A			ft²
SHGC:				
c. U-Factor:	N/A			ft²
SHGC:				
d. U-Factor:	N/A			ft²
SHGC:				
Area Weighted Average Overhang Depth:			7.397	ft.
Area Weighted Average SHGC:			0.250	
8. Floor Types (1649.0 sqft.)		Insulation	Area	
a. Raised Floor		R=30.0	1649.00	ft²
b. N/A		R=		ft²
c. N/A		R=		ft²

9. Wall Types (1766.7 sqft.)	Insulation	Area	
a. Frame - Wood, Exterior	R=19.0	1766.70	ft²
b. N/A	R=		ft²
c. N/A	R=		ft²
d. N/A	R=		ft²
10. Ceiling Types (1703.0 sqft.)	Insulation	Area	
a. Under Attic (Vented)	R=30.0	1703.00	ft²
b. N/A	R=		ft²
c. N/A	R=		ft²
11. Ducts		R	ft²
a. Sup: Attic, Ret: Main, AH: Main		6	329.8
12. Cooling systems	kBtu/hr	Efficiency	
a. Central Unit	40.0	SEER:14.00	
13. Heating systems	kBtu/hr	Efficiency	
a. Electric Heat Pump	40.0	HSPF:8.60	
14. Hot water systems			
a. Electric		Cap: 40 gallons	
		EF: 0.950	
b. Conservation features			
None			
15. Credits		Pstat	

Glass/Floor Area: 0.177

Total Proposed Modified Loads: 57.80

Total Baseline Loads: 60.18

PASS

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

PREPARED BY: Evan Beamsley

DATE: 2016-12-19

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

OWNER/AGENT: _____

DATE: 12/19/16

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

BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.2.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and an envelope leakage test report in accordance with R402.4.1.2.

FORM R405-2014

PROJECT

Title:	161425 McCall Res	Bedrooms:	3	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	1649	Lot #	
Owner:		Total Stories:	1	Block/SubDivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:	Bryan Zecher	Rotate Angle:	315	Street:	
Permit Office:		Cross Ventilation:		County:	columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1649	16490

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1649	16490	Yes	6	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet
_____	1	Raised Floor	Main	---	1649 ft²	30	0.3	0.3	0.4

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	1844 ft²	412 ft²	Dark	0.92	No	0.9	No	0	26.6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1649 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	1649 ft²	0.11	Wood
_____	2	Under Attic (Vented)	Main	30	Blown	54 ft²	0.11	Wood

FORM R405-2014

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___	1	N=>NW	Exterior	Frame - Wood	Main	19	50	4	10		503.3 ft²		0.23	0.75	0
___	2	E=>NE	Exterior	Frame - Wood	Main	19	29	0	10		290.0 ft²		0.23	0.75	0
___	3	S=>SE	Exterior	Frame - Wood	Main	19	14	8	10		146.7 ft²		0.23	0.75	0
___	4	E=>NE	Exterior	Frame - Wood	Main	19	9		10		90.0 ft²		0.23	0.75	0
___	5	S=>SE	Exterior	Frame - Wood	Main	19	21		10		210.0 ft²		0.23	0.75	0
___	6	W=>SW	Exterior	Frame - Wood	Main	19	9		10		90.0 ft²		0.23	0.75	0
___	7	S=>SE	Exterior	Frame - Wood	Main	19	14	8	10		146.7 ft²		0.23	0.75	0
___	8	W=>SW	Exterior	Frame - Wood	Main	19	29	0	10		290.0 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	N=>NW	Insulated	Main	None	.4	2		8		16 ft²
_____	2	N=>NW	Insulated	Main	None	.4	4		8		32 ft²
_____	3	N=>NW	Insulated	Main	None	.4	2		8		16 ft²
_____	4	E=>NE	Insulated	Main	None	.4	3		8		24 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N=>NW	1	Metal	Low-E Double	Yes	0.35	0.25	64.0 ft²	11 ft 6 in	1 ft 0 in	None	None
_____	2	N=>NW	1	Metal	Low-E Double	Yes	0.35	0.25	96.0 ft²	11 ft 6 in	1 ft 0 in	None	None
_____	3	E=>NE	2	Metal	Low-E Double	Yes	0.35	0.25	20.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	4	E=>NE	2	Metal	Low-E Double	Yes	0.35	0.25	6.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	5	S=>SE	3	Metal	Low-E Double	Yes	0.35	0.25	15.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	6	S=>SE	5	Metal	Low-E Double	Yes	0.35	0.25	12.5 ft²	6 ft 6 in	1 ft 6 in	None	None
_____	7	S=>SE	5	Metal	Low-E Double	Yes	0.35	0.25	12.5 ft²	6 ft 6 in	1 ft 6 in	None	None
_____	8	W=>SW	6	Metal	Low-E Double	Yes	0.35	0.25	12.5 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	9	S=>SE	7	Metal	Low-E Double	Yes	0.35	0.25	15.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	10	W=>SW	8	Metal	Low-E Double	Yes	0.35	0.25	30.0 ft²	1 ft 6 in	1 ft 6 in	None	None
_____	11	W=>SW	8	Metal	Low-E Double	Yes	0.35	0.25	9.0 ft²	1 ft 6 in	1 ft 6 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	.0007	3027.7	166.22	312.6	.539	11.016

FORM R405-2014

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump	None	HSPF:8.6	40 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit	None	SEER: 14	40 kBtu/hr	1200 cfm	0.75	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0.95	40 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

√	#	Supply Location	Supply R-Value	Supply Area	Return Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
_____	1	Attic	6	329.8 ft	Main	82.45 ft	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

FORM R405-2014

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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

, , FL,

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		3
5. Is this a worst case?		Yes
6. Conditioned floor area (ft²)		1649
7. Windows**	Description	Area
a. U-Factor: SHGC:	Dbl, U=0.35 SHGC=0.25	292.50 ft²
b. U-Factor: SHGC:	N/A	ft²
c. U-Factor: SHGC:	N/A	ft²
d. U-Factor: SHGC:	N/A	ft²
Area Weighted Average Overhang Depth:		7.397 ft.
Area Weighted Average SHGC:		0.250

8. Floor Types	Insulation	Area
a. Raised Floor	R=30.0	1649.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1766.70 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	1703.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Main, AH: Main	6	329.8

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	40.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	40.0	HSPF:8.60

14. Hot water systems	
a. Electric	Cap: 40 gallons EF: 0.95
b. Conservation features None	
15. Credits	Pstat

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

Builder Signature: , Reg Date: 12/19/16

Address of New Home: 1120 SW Riverside Ave City/FL Zip: Stuart, FL 34994

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

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

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Florida Department of Business and Professional Regulations
Residential Whole Building Performance and Prescriptive Methods

ADDRESS:	Permit Number:
, FL ,	

MANDATORY REQUIREMENTS See individual code sections for full details.

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

☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.1 through R402.4.4.

- O **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
  - ▪ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table 402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
  - ▪ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zones 1 and 2, and 3 air changes per hour in Climate Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

    During testing:
    1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
    2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
    3. Interior doors, if installed at the time of the test, shall be open;
    4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
    5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
    6. Supply and return registers, if installed at the time of the test, shall be fully open.
- O **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air.
- O **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

  Exception: Site-built windows, skylights and doors.
- O **R402.4.4 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E 283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

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

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

☐ **R403.2.2 Sealing (Mandatory).** All ducts, air handlers, and filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts and plenum chambers, shall be constructed and sealed in accordance with Section C403.2.7.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria by post-construction or rough-in testing below.

Duct tightness shall be verified by testing to Section 803 of the RESNET Standards by either an energy rater certified in accordance with Section 553.99, Florida Statutes, or as authorized by Florida Statutes, to be "substantially leak free" by either of the following:

1. Post-construction test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m2) of conditioned floor area.

Exceptions:

1. The total leakage test is not required for ducts and air handlers located entirely within the building envelope.
2. Duct testing is not mandatory for buildings complying by Section R405 of this code.

MANDATORY REQUIREMENTS - (Continued)

☐ **R403.2.3 Building Cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums.

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

R403.3.1 Protection of piping insulation.

☐ **R403.4.1 Circulating hot water systems (Mandatory).** Circulating hot water systems shall be provided with an automatic or readily accessible manual switch that can turn off the hot-water circulating pump when the system is not in use.

☐ **R403.4.3 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.

☐ **R403.4.4 Water heater efficiencies (Mandatory).**

- O **R403.4.4.1 Storage water heater temperature controls**
  - **R403.4.4.1.1 Automatic controls.** Service water heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
  - **R403.4.4.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water heating systems to be turned off.
- O **R403.4.4.2 Water heating equipment.** Water heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water heating category. Solar water heaters shall met the criteria Section R403.4.4.2.1.
  - **R403.4.4.2.1 Solar water heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol, Collectors in installed solar water heating systems should meet the following criteria:
    1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
    2. Be installed at an orientation within 45 degrees of true south.

☐ **R403.5 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

☐ **R403.6 Heating and cooling equipment (Mandatory).** The following sections are mandatory for cooling and heating equipment.

- O **R403.6.1 Equipment sizing.** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This code does not allow designer safety factors, provisions for future expansion or other factors which affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems.
  - **R403.6.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load, but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.6, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

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MANDATORY REQUIREMENTS - (Continued)

O **R403.6.1.1 Cooling equipment capacity. (continued)** The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacture's expanded performance data shall be used to select cooling-only equipment. This selection shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower cfm provided by the expanded performance data, the design value for entering wet bulb temperature and the design value for entering dry bulb temperature.

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

Exceptions:

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

O **R403.6.1.2 Heating equipment capacity**

- **R403.6.1.2.1 Heat pumps.** Heat pumps sizing shall be based on the cooling requirements as calculated according to Section R403.6.1.1 and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load.
- **R403.6.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.6.1.
- **R403.6.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.6.1.

O **R403.6.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:

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

☐ **R403.7 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Commercial Provisions in lieu of Section R403.

☐ **R403.8 Snow melt system controls (Mandatory).** Snow and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 55°F, and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F.

☐ **R403.9 Swimming pools, inground spas and portable spas (Mandatory).** The energy requirements for residential pools and inground spas shall be as specified in Sections R403.9.1 through R403.9.3 and in accordance with ANSI/APSP-15. The energy requirements for portable spas shall be in accordance with ANSI/APSP-14.

O **R403.9.1 Pool and spa heaters.** All pool heaters shall be equipped with a readily accessible on-off switch that is mounted outside the heater to allow shutting off the heater without adjusting the thermostat setting.

- **R403.9.1.1 Gas and oil-fired pool and spa heaters.** All gas- and oil-fired pool and space heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013 when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural gas or LP gas shall not have continuously burning pilot lights.
- **R403.9.1.2 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.

O **R403.9.2 Time switches.** Time switches or other control method that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on all heaters and pumps. Heaters, pumps and motors that have built in timers shall be deemed in compliance with this equipment.

Exceptions:

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

O **R403.9.3 Covers.** Heated swimming pools and inground permanently installed spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

- **Exception:** Outdoor pools deriving over 70 percent of the energy for heating from site-recovered energy, such as a heat pump or solar energy source computed over an operating season.

☐ **RR404.1 Lighting equipment (Mandatory).** A minimum of 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or a minimum of 75 percent of permanently installed lighting fixtures shall contain only high efficacy lamps.

Exception: Low-voltage lighting shall not be required to utilize high-efficacy lamps.

O **R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights

☐ **R405.2 Performance ONLY.** All ducts not entirely inside the building thermal envelope shall be insulated to a minimum of R-6.

O **R405.2.1 Performance ONLY.** Ceilings shall have minimum insulation of R-19. Where single assemby of the exposed deck and beam type or concrete deck roofs do not have sufficent space, R-10 is allowed.

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TABLE 402.4.1.1

AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:	161425 McCall Res	Builder Name:	Bryan Zecher
Street:		Permit Office:	
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville		

COMPONENT	CRITERIA	CHECK
Air barrier and thermal barrier	A continuous air barrier shall be installed in the building envelope. Exterior thermal envelope contains a continuous barrier. Breaks or joints in the air barrier shall be sealed. Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	
Walls	Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top or exterior walls shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Knee walls shall be sealed.	
Windows, skylights and doors	The space between window/door jambs and framing and skylights and framing shall be sealed.	
Rim joists	Rim joists are insulated and include an air barrier.	
Floors (including above-garage and cantilevered floors)	Insulation shall be installed to maintain permanent contact with underside of subfloor decking. The air barrier shall be installed at any exposed edge of insulation.	
Crawl space walls	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls. Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shaft openings to exterior or unconditioned space shall be sealed.	
Narrow cavities	Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be air tight, IC rated, and sealed to the drywall.	
Plumbing and wiring	Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.	
Electrical/phone box on	The air barrier shall be installed behind electrical or communication boxes or air sealed boxes shall be installed.	
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.	
Fireplace	An air barrier shall be installed on fireplace walls. Fireplaces shall have gasketed doors	

Residential System Sizing Calculation

Summary

Project Title:
161425 McCall Res

, FL

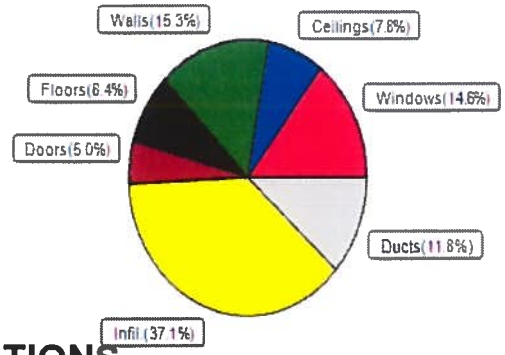
12/19/2016

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)	30	F	Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	**27991**	**Btuh**	**Total cooling load calculation**	**33904**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	142.9	40000	Sensible (SHR = 0.75)	117.3	30000
Heat Pump + Auxiliary(0.0kW)	142.9	40000	Latent	120.0	10000
			Total (Electric Heat Pump)	118.0	40000

WINTER CALCULATIONS

Winter Heating Load (for 1649 sqft)

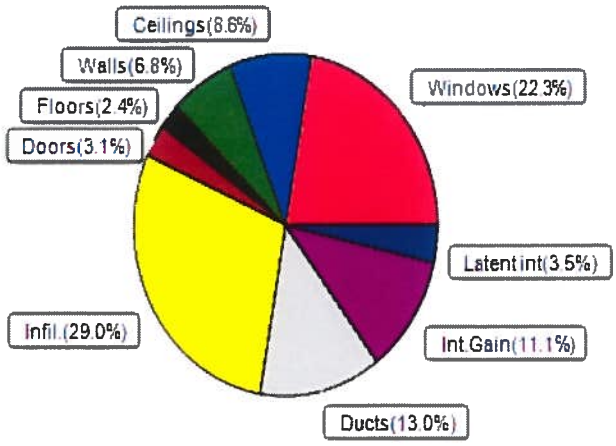
Load component			Load	
Window total	293	sqft	4095	Btuh
Wall total	1386	sqft	4285	Btuh
Door total	88	sqft	1408	Btuh
Ceiling total	1703	sqft	2169	Btuh
Floor total	1649	sqft	2365	Btuh
Infiltration	237	cfm	10379	Btuh
Duct loss			3290	Btuh
Subtotal			**27991**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**27991**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1649 sqft)

Load component			Load	
Window total	293	sqft	7573	Btuh
Wall total	1386	sqft	2292	Btuh
Door total	88	sqft	1056	Btuh
Ceiling total	1703	sqft	2929	Btuh
Floor total			828	Btuh
Infiltration	178	cfm	3698	Btuh
Internal gain			3780	Btuh
Duct gain			3418	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**25574**	**Btuh**
Latent gain(ducts)			995	Btuh
Latent gain(infiltration)			6135	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**8331**	**Btuh**
TOTAL HEAT GAIN			**33904**	**Btuh**



Powered by ACCA MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY: Evan Beamsley
DATE: 2016-12-19

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
161425 McCall Res
, FL Building Type: User

12/19/2016

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Metal	0.35	NW	64.0	14.0	896 Btuh
2	2, NFRC 0.25	Metal	0.35	NW	96.0	14.0	1344 Btuh
3	2, NFRC 0.25	Metal	0.35	NE	20.0	14.0	280 Btuh
4	2, NFRC 0.25	Metal	0.35	NE	6.0	14.0	84 Btuh
5	2, NFRC 0.25	Metal	0.35	SE	15.0	14.0	210 Btuh
6	2, NFRC 0.25	Metal	0.35	SE	12.5	14.0	175 Btuh
7	2, NFRC 0.25	Metal	0.35	SE	12.5	14.0	175 Btuh
8	2, NFRC 0.25	Metal	0.35	SW	12.5	14.0	175 Btuh
9	2, NFRC 0.25	Metal	0.35	SE	15.0	14.0	210 Btuh
10	2, NFRC 0.25	Metal	0.35	SW	30.0	14.0	420 Btuh
11	2, NFRC 0.25	Metal	0.35	SW	9.0	14.0	126 Btuh
	Window Total				292.5(sqft)		4095 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.077)	19.0/0.0	279	3.09	863 Btuh
2	Frame - Wood	- Ext	(0.077)	19.0/0.0	240	3.09	742 Btuh
3	Frame - Wood	- Ext	(0.077)	19.0/0.0	132	3.09	407 Btuh
4	Frame - Wood	- Ext	(0.077)	19.0/0.0	90	3.09	278 Btuh
5	Frame - Wood	- Ext	(0.077)	19.0/0.0	185	3.09	572 Btuh
6	Frame - Wood	- Ext	(0.077)	19.0/0.0	78	3.09	240 Btuh
7	Frame - Wood	- Ext	(0.077)	19.0/0.0	132	3.09	407 Btuh
8	Frame - Wood	- Ext	(0.077)	19.0/0.0	251	3.09	776 Btuh
	Wall Total				1386(sqft)		4285 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)	16	16.0	256 Btuh
2	Insulated - Exterior,	n	(0.400)	32	16.0	512 Btuh
3	Insulated - Exterior,	n	(0.400)	16	16.0	256 Btuh
4	Insulated - Exterior,	n	(0.400)	24	16.0	384 Btuh
	Door Total			88(sqft)		1408Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shing	(0.032)	30.0/0.0	1649	1.3	2101 Btuh
2	Vented Attic/D/Shing	(0.032)	30.0/0.0	54	1.3	69 Btuh
	Ceiling Total			1703(sqft)		2169Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Raised - Open	(0.036)	30.0	1649.0 sqft	1.4	2365 Btuh
	Floor Total			1649 sqft		2365 Btuh

	Envelope Subtotal:	14322 Btuh

Infiltration	Type	Wholehouse ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural	0.86	16490	1.00	237.0	10379 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
161425 McCall Res
Building Type: User

, FL

12/19/2016

Duct load	Average sealed, R6.0, Supply(Att), Return(Con) (DLM of 0.133)	3290 Btuh
All Zones	**Sensible Subtotal All Zones**	**27991 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	27991 Btuh 0 Btuh 27991 Btuh

EQUIPMENT

1. Electric Heat Pump	#	40000 Btuh

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

Prepared by ACCA MANUAL J

Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
161425 McCall Res

, FL

12/19/2016

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type* Panes	SHGC	U	InSh	IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2 NFRC	0.25, 0.35		No	No	NW	11.5f	1.0ft.	64.0	0.0	64.0	12	23	1501 Btuh
2	2 NFRC	0.25, 0.35		No	No	NW	11.5f	1.0ft.	96.0	0.0	96.0	12	23	2251 Btuh
3	2 NFRC	0.25, 0.35		No	No	NE	1.5ft.	1.5ft.	20.0	0.0	20.0	12	23	469 Btuh
4	2 NFRC	0.25, 0.35		No	No	NE	1.5ft.	1.5ft.	6.0	0.0	6.0	12	23	141 Btuh
5	2 NFRC	0.25, 0.35		No	No	SE	1.5ft.	1.5ft.	15.0	2.9	12.1	12	25	332 Btuh
6	2 NFRC	0.25, 0.35		No	No	SE	6.5ft.	1.5ft.	12.5	12.5	0.0	12	25	149 Btuh
7	2 NFRC	0.25, 0.35		No	No	SE	6.5ft.	1.5ft.	12.5	12.5	0.0	12	25	149 Btuh
8	2 NFRC	0.25, 0.35		No	No	SW	1.5ft.	1.5ft.	12.5	2.4	10.1	12	25	276 Btuh
9	2 NFRC	0.25, 0.35		No	No	SE	1.5ft.	1.5ft.	15.0	2.9	12.1	12	25	332 Btuh
10	2 NFRC	0.25, 0.35		No	No	SW	1.5ft.	1.5ft.	30.0	5.8	24.2	12	25	663 Btuh
11	2 NFRC	0.25, 0.35		No	No	SW	1.5ft.	1.5ft.	9.0	2.9	6.1	12	25	184 Btuh
	Excursion													1126 Btuh
	Window Total								293 (sqft)					7573 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.08	19.0/0.0	279.3	1.7	462 Btuh
2	Frame - Wood - Ext	0.08	19.0/0.0	240.0	1.7	397 Btuh
3	Frame - Wood - Ext	0.08	19.0/0.0	131.7	1.7	218 Btuh
4	Frame - Wood - Ext	0.08	19.0/0.0	90.0	1.7	149 Btuh
5	Frame - Wood - Ext	0.08	19.0/0.0	185.0	1.7	306 Btuh
6	Frame - Wood - Ext	0.08	19.0/0.0	77.5	1.7	128 Btuh
7	Frame - Wood - Ext	0.08	19.0/0.0	131.7	1.7	218 Btuh
8	Frame - Wood - Ext	0.08	19.0/0.0	251.0	1.7	415 Btuh
	Wall Total			1386 (sqft)		2292 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	16.0	12.0	192 Btuh
2	Insulated - Exterior	32.0	12.0	384 Btuh
3	Insulated - Exterior	16.0	12.0	192 Btuh
4	Insulated - Exterior	24.0	12.0	288 Btuh
	Door Total	88 (sqft)		1056 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	0.032	30.0/0.0	1649.0	1.72	2836 Btuh
2	Vented Attic/DarkShingle	0.032	30.0/0.0	54.0	1.72	93 Btuh
	Ceiling Total			1703 (sqft)		2929 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised - Open	30.0	1649 (sqft)	0.5	828 Btuh
	Floor Total		1649.0 (sqft)		828 Btuh

		Envelope Subtotal:	14678 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
161425 McCall Res

, FL

12/19/2016

Infiltration	Type Natural	Average ACH 0.65	Volume(cuft) 16490	Wall Ratio 1	CFM= 177.8	Load 3698 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230	+	Appliance 2400	Load 3780 Btuh
				Sensible Envelope Load:		22155 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Condi)			(DGM of 0.154)		3418 Btuh
				Sensible Load All Zones		**25574 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
161425 McCall Res

, FL

12/19/2016

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**22155 Btuh**
	Sensible Duct Load	3418 Btuh
	Total Sensible Zone Loads	**25574 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**25574 Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	6135 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	995 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**8331 Btuh**
	TOTAL GAIN	**33904 Btuh**

EQUIPMENT

1. Central Unit	#	40000 Btuh

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

Version 8

758-8920

wrightsoft

Load Short Form
Entire House
Touchstone Heating and Air Inc

Job: McCall
Date: Sep 20, 2016
By:

P.O Box 327, Lake Butler, fla 32054 License: CACO58099

Project Information

For: Bryan Zecher Construction
lake City

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	10	48

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

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

HEATING EQUIPMENT

Make	York
Trade	York
Model	YHE30B21S
AHRI ref	8915645

Efficiency	8.25 HSPF	
Heating input		
Heating output	72	Btuh @ 47°F
Temperature rise	0	°F
Actual air flow	1000	cfm
Air flow factor	0.015	cfm/Btuh
Static pressure	0.05	in H2O
Space thermostat		

COOLING EQUIPMENT

Make	York
Trade	York
Cond	YHE30B21S
Coil	AE36BX21
AHRI ref	8915645

Efficiency	15.5 SEER	
Sensible cooling	53	Btuh
Latent cooling	23	Btuh
Total cooling	75	Btuh
Actual air flow	1000	cfm
Air flow factor	0.025	cfm/Btuh
Static pressure	0.05	in H2O
Load sensible heat ratio	0.46	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Master Bedroom	210	11206	6095	168	154
Great Room	315	14789	7855	221	199
Bedroom 3	144	6536	3818	98	97
bathroom	72	2000	1415	30	36
Bedroom 2	156	6062	3319	91	84
Kitchen	336	5294	4116	79	104
Masterbedroom	224	10853	6336	163	160
Master closett	54	1788	1089	27	28
Office	48	3935	2257	59	57
Utility	104	4321	3255	65	82

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Entire House	1663	66783	39556	1000	1000
Other equip loads		0	0		
Equip. @ 0.97 RSM			38409		
Latent cooling			45803		
TOTALS	1663	66783	84211	1000	1000

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Project Summary
Entire House
Touchstone Heating and Air Inc

Job: McCall
Date: Sep 20, 2016
By:

P.O Box 327, Lake Butler, fla 32054 License: CACO58099

Project Information

For: Bryan Zecher Construction
lake City

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

Outside db	33	°F
Inside db	70	°F
Design TD	37	°F

Summer Design Conditions

Outside db	92	°F
Inside db	75	°F
Design TD	17	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	48	gr/lb

Heating Summary

Structure	66783	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	66783	Btuh

Sensible Cooling Equipment Load Sizing

Structure	39556	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.97	
Equipment sensible load	38409	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1663	1663
Volume (ft³)	11641	11641
Air changes/hour	0.38	0.20
Equiv. AVF (cfm)	74	39

Latent Cooling Equipment Load Sizing

Structure	45803	Btuh
Ducts	0	Btuh
Central vent (0 cfm)	0	Btuh
Equipment latent load	45803	Btuh
Equipment total load	84211	Btuh
Req. total capacity at 0.70 SHR	4.6	ton

Heating Equipment Summary

Make	York
Trade	York
Model	YHE30B21S
AHRI ref	8915645

Efficiency	8.25	HSPF
Heating input		
Heating output	72	Btuh @ 47°F
Temperature rise	0	°F
Actual air flow	1000	cfm
Air flow factor	0.015	cfm/Btuh
Static pressure	0.05	in H2O
Space thermostat		

Cooling Equipment Summary

Make	York
Trade	York
Cond	YHE30B21S
Coil	AE36BX21
AHRI ref	8915645

Efficiency	15.5	SEER
Sensible cooling	53	Btuh
Latent cooling	23	Btuh
Total cooling	75	Btuh
Actual air flow	1000	cfm
Air flow factor	0.025	cfm/Btuh
Static pressure	0.05	in H2O
Load sensible heat ratio	0.46	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.


34826

faxed 7-26-17

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 27-6S-15-00565-000 **Building permit No.** 000034826

Use Classification SFD, UTILITY **Fire:** 0.00

Permit Holder BRYAN ZECHER **Waste:**

Owner of Building THOMAS & LINDA MCCALL **Total:** 0.00

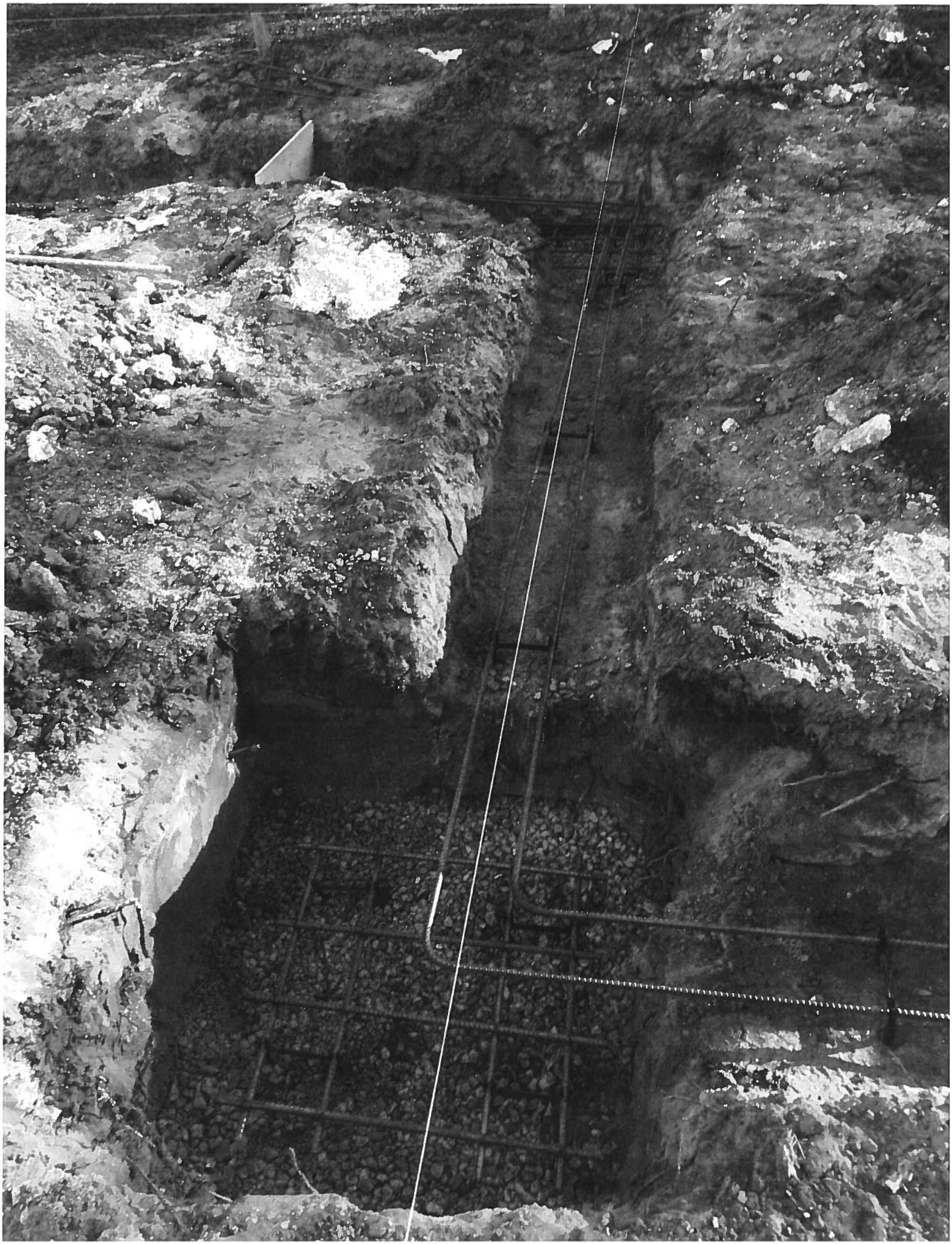
Location: 1120 SW RIVERSIDE AVE, FORT WHITE, FL ~~23038~~ 32038

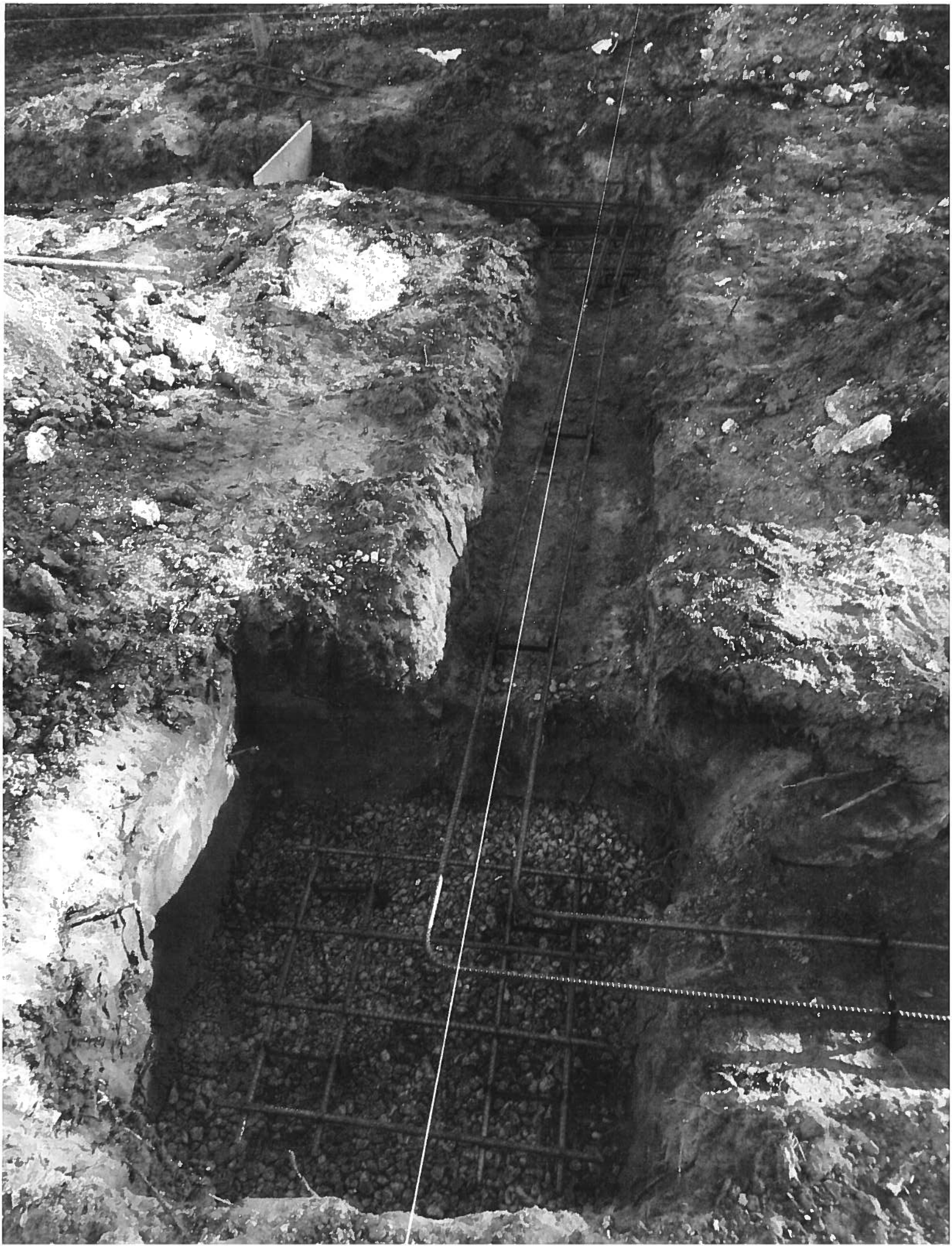
Date: 07/26/2017

- Bank called 8.16.17 (JW) connected.

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)





34826

Notice of Treatment

Applicator: Florida Pest Control · (www.flapest .com)
Address: 536 SE Bonita Dr
City Lake City FL 32025 Phone (386) 752-1703

Site Location: Subdivision _____
Lot # _____ Block# _____ Permit # _____
Address 1120 SW Riverside Ave Fort White

Product used	Active Ingredient	% Concentration
☑ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐		

Type treatment: ☑ Soil

Area Treated	Square feet	Linear feet	Gallons Applied
Foundation	2,230		115 gal
Slab walk		206	65 gal

As per Florida Building Code – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____

2-16-17	11:15 am	Johnathan Gaines
Date	Time	Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink

5/15 ©