DATE 10/21/2014

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000032423

APPLICANT MATTHEW CUMMINGS PHONE 386.623.0143

ADDRESS 319 SW SOLSTICE CT LAKE CITY FL 32024

OWNER CODY & WHITNEY BARRS PHONE 386.623.0509

ADDRESS 466 SW GERANIUM LN FT. WHITE FL 32038

CONTRACTOR MATTHEW CUMMINGS PHONE 386.623.0143

LOCATION OF PROPERTY 47-S TO FT. WHITE TO GERANIUM,TL AND IT'S 1/2 MILE ON THE R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 187900.00

HEATED FLOOR AREA 2337.00 TOTAL AREA 3758.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT ____

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

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

PARCEL ID 17-7S-16-04233-002 SUBDIVISION ____

LOT ____ BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 20.00

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CBC1259800	✓ Matthew Cummings

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
EXISTING	14-0502	BLK	TC	N

COMMENTS: NOC ON FILE. 1 FOOT ABOVE ROAD.

Check # or Cash 1062

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

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

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

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

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

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

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

BUILDING PERMIT FEE $ 940.00 CERTIFICATION FEE $ 18.79 SURCHARGE FEE $ 18.79

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

FLOOD DEVELOPMENT FEE $ ____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ ____ **TOTAL FEE** 1052.58

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.

Notice of Treatment

Applicator: Florida Pest Control · (www.flapest .com)
Address: 536 Okaya Dr
City Lake city Phone 752-1703

Site Location: Subdivision
Lot # Block# Permit # 32423
Address

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

Type treatment: ☑ Soil

Area Treated	Square feet	Linear feet	Gallons Applied
Dwell	3758	289	375

As per Florida Building Code 104.2.6 – 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 _____

11/12/14	8:09	Patrick Alvino
Date	Time	Print Technician's Name

Remarks:

Applicator - White Permit File - Canary Permit Holder - Pink

2/12 ©

VANN SIGNATURES - NEEDED ISAAC NWT - NL PAINTER

MATT CUMMINGS - ROOFING SIGNATURES Columbia County Building Permit Application ENERGY CODE

For Office Use Only Application # 1410-15 Date Received 10/17 By JW Permit # 32423

Zoning Official BLK Date 21 Oct. 2014 Flood Zone X Land Use A-3 Zoning A-3

FEMA Map # N/A Elevation N/A MFE 1' Above Rd River N/A Plans Examiner T.C. Date 10-20-14

Comments

NOC EH Deed or PA Site Plan State Road Info Well (Existing) 911 Sheet Parent Parcel #

Dev Permit # In Floodway Letter of Auth. from Contractor F W Comp. letter

IMPACT FEES: EMS Fire Corr Sub VF Form

Road/Code School = TOTAL (Suspended) Ellisville Water App Fee Paid

Septic Permit No. 14-0502 Fax

Name Authorized Person Signing Permit Matt Cummings Phone (386) 623-0143

Address 319 SW Solstice CT, Lake City FL 32024

Owners Name Cody and Whitney Bakes Phone (386)-623-0509

911 Address 466 SW Geranium LN. Fort White, FL 32038

Contractors Name Matt Cummings Phone (386)-623-0143

Address 319 SW Solstice Ct. Lake City, FL 32024

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Marty D. Humphries 7932 240th St. O'Brien, FL 32071

Mortgage Lenders Name & Address Campus USA Credit Union 1158 W US Highway 90, Lake City 32

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

Property ID Number 17-7S-16-04233-002 Estimated Cost of Construction 192,K

Subdivision Name Lot Block Unit Phase

Driving Directions 47 South Thru Fort White to Geranium Lane on left Then Go ½ mile to 466 on the Right.

Number of Existing Dwellings on Property Ø

Construction of Single family home Total Acreage 20.0 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 27 ft

Actual Distance of Structure from Property Lines - Front 600 ft Side 450 Side 300 Rear 850

Number of Stories Single Heated Floor Area 2337 sq. ft Total Floor Area 3758 sq. ft. Roof Pitch 6/12

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. **CODE:** Florida Building Code 2010 and the 2008 National Electrical Code.

JW spoke w/ Amelia about email. 10.21.14

JW spoke w/ Cody - 10.22.14 - Email sent (CK 1062)

Columbia County Building Permit Application

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 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.

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 BUILDING PERMITEE: ***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 COMMENCMENT 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.

(Owners Must Sign All Applications Before Permit Issuance.)

Owners Signature ****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

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.

Matthew Cumings

Contractor's Signature (Permitee)

Contractor's License Number CBC1259800
Columbia County
Competency Card Number 1459

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 14 **day of** October **20**14.

Personally known X **or Produced Identification** _____

Amelia J. Creamer

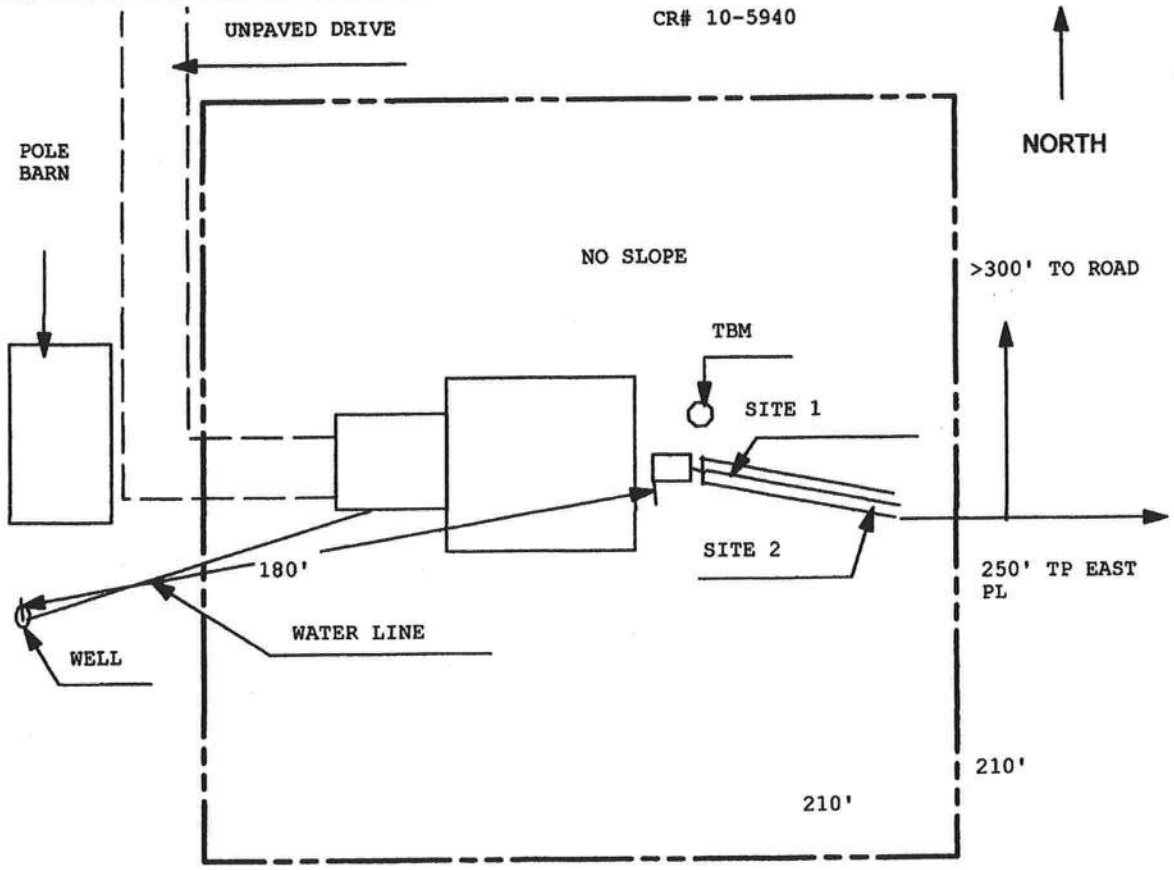
State of Florida Notary Signature (For the Contractor)

SEAL:

AMELIA J. CREAMER
Notary Public, State of Florida
My Comm. Expires Mar. 10, 2017
Commission No. EE 872068

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan
Permit Application Number: 14-0553

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



1 inch = 40 feet

Site Plan Submitted By Paul Lloyd Date 10/2/14
Plan Approved 10 Not Approved ____ Date 10/9/14
By _____ Celina CPHU
Notes: _____

FW

CR # 10-5940

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

PERMIT NO. 14-2502
DATE PAID: 10/7/14
FEE PAID: $10.00
RECEIPT #: 1762176

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

APPLICANT: CODY & WHITNEY BARRS

AGENT: PAUL LLOYD TELEPHONE: (386) 623-0509

MAILING ADDRESS: 358 SW SHUNSHINE CT. 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: N/A BLOCK: N/A SUBDIVISION: METES AND BOUNDS PLATTED: _____

PROPERTY ID #: 17-7S-16-04233-006/17-7S-16-04233-002 ZONING: AG I/M OR EQUIVALENT: [NO]

PROPERTY SIZE: 20.000 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [NO] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 466 SW GERANIUM LN FT. WHITE

DIRECTIONS TO PROPERTY: SR. 47 SOUTH THRU FT. WHITE, GERANIUM LN IS ON THE LEFT AFTER THE LARGE POWER LINE CROSSES THE RD. TURN LEFT ON GERANIUM LN. SITE APP 1/2 MILE 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	HOUSE	3	2,360	
2				
3				
4				

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

SIGNATURE: Paul Lloyd DATE: 10/6/14

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

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

PERMIT #: 12-SC-1564019
APPLICATION #: AP1162176
DATE PAID: 10/7/14
FEE PAID: 310.00
RECEIPT #: 2548901
DOCUMENT #: PR952613

CONSTRUCTION PERMIT FOR: OSTDS New

APPLICANT: CODY*14-0502 BARRS

PROPERTY ADDRESS: 466 SW GERANIUM Ln Fort White, FL 32038

LOT: _____ BLOCK: _____ SUBDIVISION: _____

PROPERTY ID #: 04233-006/002 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER] [OR TAX ID NUMBER]

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

SYSTEM DESIGN AND SPECIFICATIONS

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

D [500] SQUARE FEET Drainfield SYSTEM
R [ ] SQUARE FEET N/A SYSTEM
A TYPE SYSTEM: [x] STANDARD [ ] FILLED [ ] MOUND [ ] _____
I CONFIGURATION: [x] TRENCH [ ] BED [ ] _____
N
F LOCATION OF BENCHMARK: Nail in 20" Oak tree north of system site.
I ELEVATION OF PROPOSED SYSTEM SITE [24.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [54.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [0.00] INCHES

O T H E R

The system is sized for 3 bedrooms with a maximum occupancy of 6 persons (2 per bedroom), for a total estimated flow of 400 gpd.
The licensed contractor installing the system is responsible for installing the minimum category of tank in accordance with s. 64E-6.013(3)(f), FAC.

SPECIFICATIONS BY: PAUL LLOYD TITLE: PSE

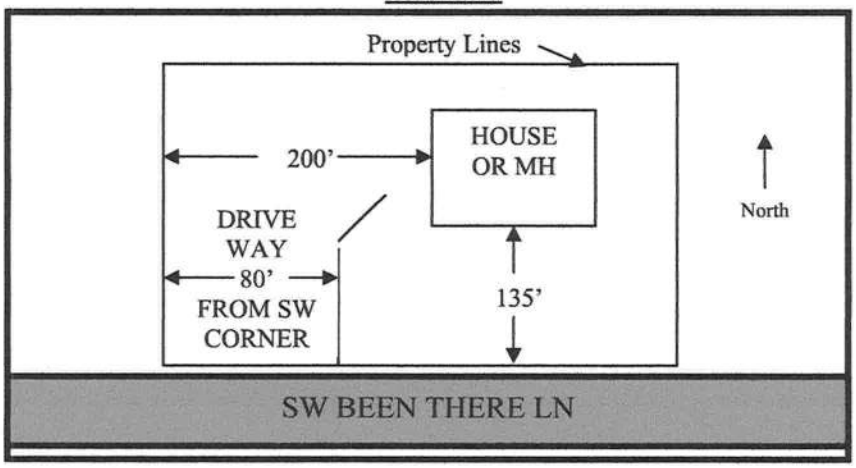
APPROVED BY: Jeremy X Gifford TITLE: Environmental Specialist I Columbia CHD

DATE ISSUED: 10/09/2014 EXPIRATION DATE: 04/09/2016

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

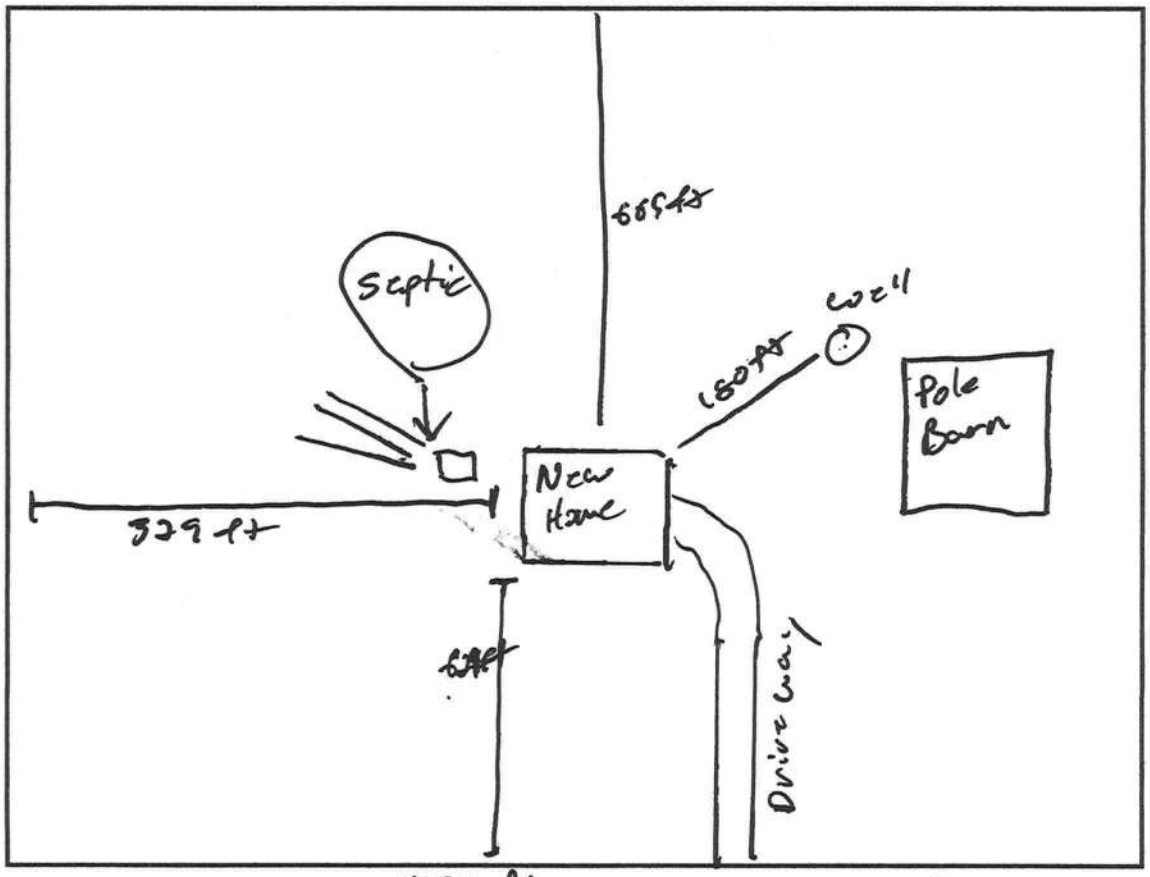
1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



Rear

SITE PLAN BOX:



Front

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@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 REQUESTED: 10/1/2014 **DATE ISSUED:** 10/2/2014

ENHANCED 9-1-1 ADDRESS:

466 SW GERANIUM LN

FORT WHITE FL 32038

PROPERTY APPRAISER PARCEL NUMBER:

17-7S-16-04233-006

Remarks:

RE-ISSUE OF EXISTING ADDRESS FOR NEW RESIDENTIAL STRUCTURE ON PARCEL.

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

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

3008

Name: Trish Lang, an employee of NORTH CENTRAL FLORIDA TITLE, LLC

Address: 343 NW COLE TER
LAKE CITY, FL. 32055
File No. 14Y-08022TL

Inst:201412014215 Date:9/12/2014 Time:3:05 PM
Doc Stamp-Deed:434.00
DC,P.DeWitt Cason,Columbia County Page 1 of 2 B:1281 P:1002

Parcel I.D. #: 04233-006 AND 04233-002

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORDING DATA

THIS WARRANTY DEED Made the 12th day of **September**, A.D. 2014, by **MICHAEL DEAN HUDSON** and **Z. EDMOND HUDSON. CONVEYING NON-HOMESTEAD PROPERTY,** hereinafter called the grantors, to **CODY R. BARRS** and **WHITNEY W. BARRS. HIS WIFE.** whose post office address is **358 SW SUNRISE CT., FORT WHITE, FL 32038,** hereinafter called the grantees:

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

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

The East 659 feet of the Northeast 1/4 of the Northeast 1/4 of Section 17, Township 7 South, Range 16 East, Columbia County, Florida.

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

To Have and to Hold the same in fee simple forever.

And the grantors hereby covenant with said grantees that they are lawfully seized of said land in fee simple; that they have good right and lawful authority to sell and convey said land, and hereby fully warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2014.

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

Signed, sealed and delivered in the presence of:

Witness Signature

Printed Name: Patricia Lang

Witness Signature

Printed Name

L.S.

MICHAEL DEAN HUDSON
Address:
872 SW COUNTY RD 18, HIGH SPRINGS, FL 32643

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 12th day of **September**, 2014, by **MICHAEL DEAN HUDSON,** who is known to me or who has produced Driver's License as identification.

Notary Public
My commission expires 12-14-14

PATRICIA H. LANG
Commission # EE 046030
Expires December 14, 2014

Signed, sealed and delivered in the presence of:

Witness Signature

Printed Name

Witness Signature

Printed Name

Z. Edmond Hudson L.S.

Z. EDMOND HUDSON

Address:

17925 HORN HILL ROAD, OPP, ALABAMA
36467-5009

STATE OF ALABAMA
COUNTY OF COVINGTON

The foregoing instrument was acknowledged before me this 12th day of September, 2014, by Z. EDMOND HUDSON, who is known to me or who has produced personally known *as identification.*

Notary Public

My commission expires:

JANICE HUGHEY
Notary Public, AL State at Large
My Comm. Expires Oct. 23, 2014

Columbia County Property Appraiser

CAMA updated: 10/16/2014

2014 Tax Year

Tax Collector | Tax Estimator | Property Card | Parcel List Generator | Interactive GIS Map | Print

Parcel: 17-7S-16-04233-002

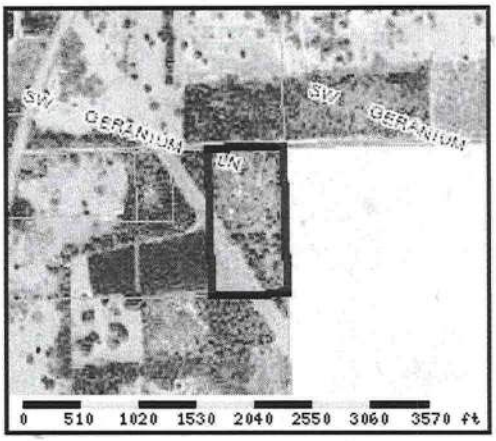
<< Next Lower Parcel | Next Higher Parcel >>

<< Prev Search Result: 2 of 13 Next >>

Owner & Property Info

Owner's Name	BARRS CODY R & WHITNEY W		
Mailing Address	358 SW SUNRISE CT FORT WHITE, FL 32038		
Site Address			
Use Desc. (code)	NO AG ACRE (009900)		
Tax District	3 (County)	**Neighborhood**	17716
Land Area	20.000 ACRES	**Market Area**	02
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		

E 329.5 FT OF NE1/4 OF NE1/4 THE EAST 659 FT OF NE1/4 OF ORB 745-1359 & ORB 1187-1479 NE1/4. ORB 745-1329, 1187-1479 SWD 1202-2186, SWD 1202-2186, WD 1281-1002,



Property & Assessment Values

2014 Certified Values		
Mkt Land Value	cnt: (2)	$0.00
Ag Land Value	cnt: (0)	$2,680.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (1)	$4,608.00
Total Appraised Value		$7,288.00
Just Value		$43,987.00
Class Value		$7,288.00
Assessed Value		$7,288.00
Exempt Value		$0.00
Total Taxable Value		Cnty: $7,288 Other: $7,288 | Schl: $7,288

2015 Working Values

NOTE:
2015 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Show Working Values

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
9/12/2014	1281/1002	WD	I	Q	01	$62,000.00
8/23/2010	1202/2186	WD	V	U	11	$0.00
4/30/1991	745/1359	WD	V	Q		$30,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
			NONE			

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0040	BARN,POLE	2008	$4,608.00	0001536.000	32 x 48 x 0	(000.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
009900	AC NON-AG (MKT)	20 AC	1.00/1.00/1.00/1.00	$3,150.38	$63,007.00

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1410-45 CONTRACTOR Little & Williams PHONE 386 755-3138

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 37	Print Name Holly Electric / David Holly Signature [signature] License #: EC13005429 - 755-5944 Phone #: 386 623-6980
MECHANICAL/ A/C 569	Print Name David Hall Signature [signature] License #: CAC057424 Phone #: 386 867-1109
PLUMBING/ GAS 715	Print Name Barns plumbing Signature [signature] License #: CFC1427145 Phone #: 386 623-[illegible]
ROOFING 1459	Print Name Little E Williams Inc Signature [signature] License #: CBC1259800 Phone #:
SHEET METAL	Print Name N/A Signature License #: Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name N/A Signature License#: Phone #:
SOLAR	Print Name N/A Signature License #: Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON 1459	CBC1259800	MATTHEW "Cummings	[signature]
CONCRETE FINISHER	"	"	
FRAMING	"	"	
INSULATION	"	"	
STUCCO	N/A		
DRYWALL	"	"	
PLASTER	N/A		
CABINET INSTALLER	000103	John Jenkins	[signature]
PAINTING	CBC1259800	Matthew Cummings	[signature]
ACOUSTICAL CEILING	N/A		
GLASS	"		
CERAMIC TILE	1263	MARC Vann	[signature]
FLOOR COVERING	000710	MARC Vann	[signature]
ALUM/VINYL SIDING	CBC1259800	MATTHEW cummings	[signature]
GARAGE DOOR	"	"	"
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.

NOTICE OF COMMENCEMENT

Clerk's Office Stamp

Inst:201412016341 Date:10/21/2014 Time:1:29 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1283 P:742

Tax Parcel Identification Number:

17-7S-16-04233-006/17-7S-16-04233-002

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

1. Description of property *(legal description)*: _____
   a) Street *(job)* Address: 166 SW Geranium LN, Fort White FL 32038
2. General description of improvements: 3700 sf, Single family, Home
3. Owner Information
   a) Name and address: Cody Barrs, 358 SW Sunshine Ct Ft White FL
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property Owner
4. Contractor Information
   a) Name and address: Little + Williams Inc 314 SW Solstice Court Lake City FL 32024
   b) Telephone No.: 386 755-3139 Fax No. (Opt.) 386 961-9539
5. Surety Information
   a) Name and address: N/A
   b) Amount of Bond: _____
   c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
   a) Name and address: Campus USA Credit Union 1658 W US Highway 90, Lake City, 32025
   b) Phone No. 386-754-9058
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: _____
   b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name and address: Little + Williams Inc 314 SW Solstice Court, Lake City, 32024
   b) Telephone No.: 386 755-3139 Fax No. (Opt.) 386 961-9539
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified):** _____

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

Cody Barrs
Printed Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 14th day of October, 2014, by:

Cody Barrs as Owner (type of authority, e.g. officer, trustee, attorney fact) for _____ (name of party on behalf of whom instrument was executed).

Personally Known X OR Produced Identification ____ Type _____

Notary Signature Amelia J Creamer Notary Stamp or Seal:

AMELIA J. CREAMER
Notary Public, State of Florida
My Comm. Expires Mar. 10, 2017
Commission No. EE 872068

—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

_____
Signature of Natural Person Signing (in line #10 above.)

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2010 EFFECTIVE 15 MARCH 2012 AND THE NATIONAL ELECTRICAL 2008 EFFECTIVE 1 OCTOBER 2009

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2010 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 15 MARCH 2012. NATIONAL ELECTRICAL CODE 2008 EFFECTIVE 1 OCTOBER 2009. 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

	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.)	2337	Total (Sq. Ft.) under roof 3758	IIIIIII	IIIIIII	IIII

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		
8	**Plans or specifications must show compliance with FBCR Chapter 3**	**IIIIII YES**	**IIIII NO**	**IIIIII N/A**
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	N/A		
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	N/A		
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. N/A			
32	Assumed load-bearing valve of soil_____ 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 & inter 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 IRC Table 502.5 (1)	✓		
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 802.1.6.1 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 Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 Residential buildings compliance methods. **Two of the required forms are to be submitted**, *N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.*

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

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.

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 On-Line Building Permit Application www.ccpermit.com is to be completed, by following the Checklist all supporting documents must be submitted. There is a **$15.00** application fee.	✓		
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 requested. 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 permit showing an approved waste water sewer tap 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 Ext. 3	✓		

Florida Product Approvals			
Category	**Manufacturer**	**Product Description**	**Approval Number**
Ext Swinging door	Masonite/Dyke	Inswing and Outswing Fiberglass	FL4334-R6
	Masonite/Dyke	Inswing and Outswing Steel	FL4904-R5
	Plastpro/Tucker	8'0" Inswing and Outswing Fiberglass	FL15209
	Plastpro/Tucker	Inswing and Outswing Steel	FL15962-R1
	Plastpro/Tucker	6'8" Inswing and Outswing Fiberglass	FL15215-R2
Windows	MI	Aluminum 185 Single Hung	FL15447-R2
		Aluminum 185 Picture Window	FL15349-R3
		Vinyl 3540 Single Hung	FL12250-R10
		Vinyl 3500HP Picture Window	FL11548-R6
	Magnolia	Vinyl 300 Single Hung	FL12716-R1
		Vinyl 300 Picture Window	
Soffit	Kaycan	Vinyl/PVC and Aluminum Soffit	FL16503
Underlayment	Woodland	30# Roofing Felt	FL1814-R6
Roofing	Certainteed	Asphalt Shingles	FL5444
	GAF	Asphalt Shingles	FL10124-R11
Siding	Certainteed	Weatherboard Fibercement Siding	FL3148-R4

FLORIDA DEPARTMENT OF
Business & Professional Regulation

Product Approval
USER: Public User

FL #	FL10124-R7
Application Type	Editorial Change
Code Version	2010
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	GAF
Address/Phone/Email	1361 Alps Road Wayne, NJ 07470 (973) 872-4421 lindareith@trinityerd.com
Authorized Signature	Beth McSorley lindareith@trinityerd.com
Technical Representative Address/Phone/Email	Beth McSorley 1361 Alps Road - Bldg 11-1 Wayne, NJ 07470 (973) 872-4421 BMcSorley@gaf.com
Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☑ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen
Florida License	PE-59166
Quality Assurance Entity	UL LLC
Quality Assurance Contract Expiration Date	02/06/2013
Validated By	John W. Knezevich, PE ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL10124_R7_COI_Trinity ERD CI - Nieminen.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM D3161 (Class F)	2006
ASTM D3462	2007
ASTM D7158 (Class H)	2007
TAS 107	1995

Equivalence of Product Standards

FLORIDA DEPARTMENT OF
Community Affairs

Community Affairs

Product Approval
USER: Public User

FL #	FL4904-R3
Application Type	Revision
Code Version	2007
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer Address/Phone/Email	Masonite International One North Dale Mabry Suite 950 Tampa, FL 33609 (615) 441-4258 sschreiber@masonite.com
Authorized Signature	Steve Schreiber sschreiber@masonite.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Certification Mark or Listing
Certification Agency Validated By	National Accreditation & Management Institute, National Accreditation & Management Institute,

Referenced Standard and Year (of Standard)

Standard	Year
TAS 201	1994
TAS 202	1994
TAS 203	1994

Equivalence of Product Standards Certified By

Product Approval Method	Method 1 Option A
Date Submitted	12/23/2008
Date Validated	12/29/2008
Date Pending FBC Approval	01/05/2009
Date Approved	02/03/2009

Summary of Products

FL #	Model, Number or Name	Description
4904.1	Wood-edge Steel Side-Hinged Door Units	6'-8" Opaque I/S and O/S Single Door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +76.0/-76.0 **Other:** Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 3'-0" x 6'-8" max nominal size. When large missile impact resistance is required, hurricane protective system is NOT required. See DWG-MA-FL0128-05 for details.		**Certification Agency Certificate** FL4904_R3_C_CAC_NI006110-R3.PDF **Quality Assurance Contract Expiration Date** 12/31/2010 **Installation Instructions** FL4904_R3_II_FL4904 6_8 Opaque Anchor.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:
4904.2	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque I/S and O/S Single Door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +70.0/-70.0 **Other:** Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 3'-0" x 8'-0" max nominal size. When large missile impact resistance is required, hurricane protective system is NOT required. See DWG-MA-FL0129-05 for details.		**Certification Agency Certificate** FL4904_R3_C_CAC_NI006110-R3.PDF **Quality Assurance Contract Expiration Date** 12/31/2010 **Installation Instructions** FL4904_R3_II_FL4904 8_0 Opaque Anchor.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:
4904.3	Wood-edge Steel Side-Hinged Door Units	6'-8" Opaque I/S and O/S Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +55.0/-55.0 **Other:** Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See DWG-MA-		**Certification Agency Certificate** FL4904_R3_C_CAC_NI006110-R3.PDF **Quality Assurance Contract Expiration Date** 12/31/2010 **Installation Instructions** FL4904_R3_II_FL4904 6_8 Opaque Anchor.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:

FL0128-05 for details.		
4904.4	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque I/S Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +45.0/-50.0 **Other:** Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See DWG-MA-FL0129-05 for details.		**Certification Agency Certificate** FL4904_R3_C_CAC_NI006110-R3.PDF **Quality Assurance Contract Expiration Date** 12/31/2010 **Installation Instructions** FL4904_R3_II_FL4904 8_0 Opaque Anchor.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:
4904.5	Wood-edge Steel Side-Hinged Door Units	8'-0" Opaque O/S w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +50.0/-45.0 **Other:** Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. When large missile impact resistance is required, hurricane protective system is NOT required on opaque panels, but is required on glazed panels. See DWG-MA-FL0129-05 for details.		**Certification Agency Certificate** FL4904_R3_C_CAC_NI006110-R3.PDF **Quality Assurance Contract Expiration Date** 12/31/2010 **Installation Instructions** FL4904_R3_II_FL4904 8_0 Opaque Anchor.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:
4904.6	Wood-edge Steel Side-Hinged Door Units	6'-8" Glazed I/S and O/S Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50.5/-50.5 **Other:** Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. When large missile impact resistance is required, hurricane protective system is required. See DWG-MA-FL0130-05 for details.		**Certification Agency Certificate** FL4904_R3_C_CAC_NI006110-R3.PDF **Quality Assurance Contract Expiration Date** 12/31/2010 **Installation Instructions** FL4904_R3_II_FL4904 6_8 Glazed Anchor.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:
4904.7	Wood-edge Steel Side-Hinged Door Units	8'-0" Glazed I/S Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +40.0/-45.0 **Other:** Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the		**Certification Agency Certificate** FL4904_R3_C_CAC_NI006110-R3.PDF **Quality Assurance Contract Expiration Date** 12/31/2010 **Installation Instructions** FL4904_R3_II_FL4904 8_0 Glazed Anchor.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: **Evaluation Reports**

design pressures listed. 12'-0" x 8'-0" max nominal size. When large missile impact resistance is required, hurricane protective system is required. See DWG-MA-FL0131-05 for details.		Created by Independent Third Party:
4904.8	Wood-edge Steel Side-Hinged Door Units	8'-0" Glazed O/S Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +45.0/-40.0 **Other:** Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7, Minimum Design Loads for Buildings and Other Structures, does not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. When large missile impact resistance is required, hurricane protective system is required. See DWG-MA-FL0131-05 for details.		**Certification Agency Certificate** FL4904_R3_C_CAC_NI006110-R3.PDF **Quality Assurance Contract Expiration Date** 12/31/2010 **Installation Instructions** FL4904_R3_II_FL4904_8_0_Glazed_Anchor.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:

Back Next

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Fax (850) 414-8436

Product Approval Accepts:

FLORIDA DEPARTMENT OF
Business & Professional Regulation

Florida Department of Business & Professional Regulation
License efficiently. Regulate fairly.

OFFICE OF THE SECRETARY

Product Approval
USER: Public User

FL #	FL12716-R1
Application Type	Affirmation
Code Version	2010
Application Status	Validated
Comments	
Archived	
Product Manufacturer Address/Phone/Email	Magnolia Window & Door 420 Industrial Boulevard Baldwin, GA 30511 (706) 778-1200 landerson@magnoliawindow.com
Authorized Signature	Luis Lomas rlomas@lrlomaspe.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Windows
Subcategory	Single Hung
Compliance Method	Certification Mark or Listing
Certification Agency	Keystone Certifications, Inc.
Validated By	Keystone Certifications, Inc.

Referenced Standard and Year (of Standard)

Standard	Year
AAMA/WDMA/CSA 101/IS2/A440	2005

Equivalence of Product Standards Certified By

☑ I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity ◉ Yes ○ No ○ N/A

FL12716_R1_COC_FL12716COMP.pdf

Product Approval Method	Method 1 Option A
Date Submitted	06/12/2008
Date Validated	06/13/2008
Date Pending FBC Approval	06/25/2008
Date Approved	09/15/2008

Summary of Products

FL #	Model, Number or Name	Description
3148.1	WeatherBoard Fiber Cement Siding	Non-asbestos fiber cement siding

Limits of Use
Approved for use in HVHZ: Yes
Approved for use outside HVHZ: Yes
Impact Resistant: Yes
Design Pressure: +N/A/-115.0
Other: 1) Refer to current NOA. 2) The design pressure in this application applies to one particular assembly, refer to current NOA for design pressures of other assemblies.

Certification Agency Certificate
FL3148_R2_C_CAC_Dade Co FC NOA 08021305.pdf
Quality Assurance Contract Expiration Date
04/24/2013
Installation Instructions
FL3148_R2_II_Dade Co FC NOA 08021305.pdf
Verified By: Miami-Dade BCCO - CER
Created by Independent Third Party:
Evaluation Reports
Created by Independent Third Party:

Back Next

DCA Administration

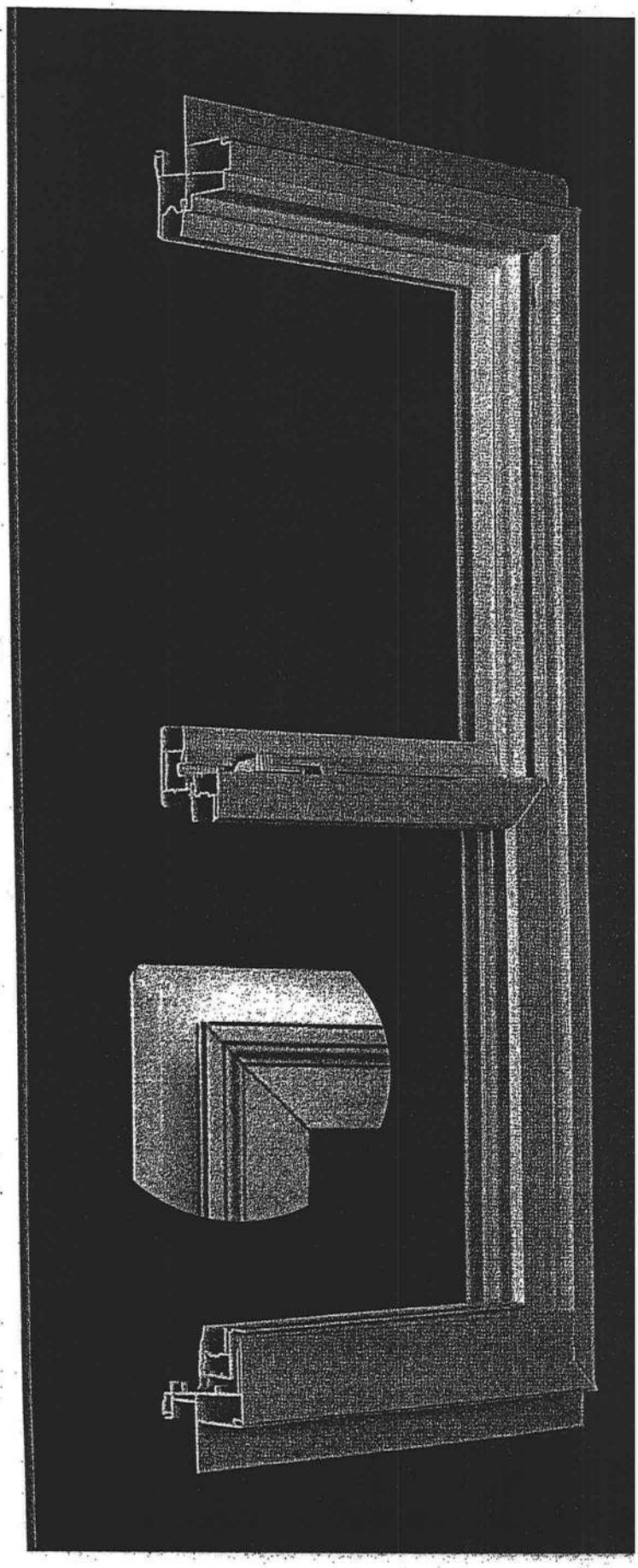
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Fax (850) 414-8436

Product Approval Accepts:

Magnolia SH 300 Series Window Features

Features and Benefits

- Fully welded frame and sash assures strength, durability, and years of trouble-free service in the home
- Rugged non-corrosive locks provide security with style
- 3/4" insulated glass
- Positive interlock at meeting rail for added security and structural integrity
- Heavy duty weatherstripping on frame and sash for protection against air and water infiltration
- Solid vinyl warranted against rotting, rusting, cracking, warping, pitting, corroding, peeling, blistering and color failure
- Patented Integral J Channel aesthetically conceals siding and eliminates the need for snap-on accessories
- 11/4"Integral, pre-punched nailing fin for easy and accurate installation
- Standard color white
- Traditional Wood Millwork Look (WM 180)
- Tilt-In lower sash for easy cleaning
- Interior and exterior frame accessory grooves
- SH, PW, TR, HR models available



Product Approval Method	Method 1 Option A
Date Submitted	11/02/2012
Date Validated	11/02/2012

Summary of Products

FL #	Model, Number or Name	Description
12716.1	SH300 SINGLE HUNG	SH 300 PVC SINGLE HUNG - 48x72

Limits of Use
Approved for use in HVHZ: No
Approved for use outside HVHZ: Yes
Impact Resistant: No
Design Pressure: +25/-25
Other:

Certification Agency Certificate
FL12716_R1_C_CAC_168-122CAR.pdf
Quality Assurance Contract Expiration Date
03/11/2013
Installation Instructions
FL12716_R1_II_08-00743.pdf
Verified By: Luis Roberto Lomas 62514
Created by Independent Third Party: Yes
Evaluation Reports
Created by Independent Third Party:

Back Next

FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Barrs Residence	Builder Name:	
Street:		Permit Office:	Building Department
City, State, Zip:	, FL , 32024-	Permit Number:	
Owner:	Cody Barrs	Jurisdiction:	Columbia County
Design Location:	FL, Gainesville		

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?	No			
6. Conditioned floor area above grade (ft²)	2337			
Conditioned floor area below grade (ft²)	0			
7. Windows(257.3 sqft.)	Description		Area	
a. U-Factor:	Dbl, U=0.30		241.33	ft²
SHGC:	SHGC=0.30			
b. U-Factor:	Gbl, default		16.00	ft²
SHGC:	Clear, default			
c. U-Factor:	N/A			ft²
SHGC:				
d. U-Factor:	N/A			ft²
SHGC:				
Area Weighted Average Overhang Depth:			8.111	ft.
Area Weighted Average SHGC:			0.319	
8. Floor Types (2337.0 sqft.)		Insulation	Area	
a. Slab-On-Grade Edge Insulation		R=9.0	2337.00	ft²
b. N/A		R=		ft²
c. N/A		R=		ft²

9. Wall Types (1810.5 sqft.)	Insulation	Area	
a. Frame - Wood, Exterior	R=24.0	1552.50	ft²
b. Frame - Wood, Adjacent	R=24.0	258.00	ft²
c. N/A	R=		ft²
d. N/A	R=		ft²
10. Ceiling Types (2337.0 sqft.)	Insulation	Area	
a. Under Attic (Vented)	R=30.0	2337.00	ft²
b. N/A	R=		ft²
c. N/A	R=		ft²
11. Ducts		R	ft²
a. Sup: Attic, Ret: Attic, AH: Main		6	467.4
12. Cooling systems	kBtu/hr	Efficiency	
a. Central Unit	26.0	SEER:18.00	
13. Heating systems	kBtu/hr	Efficiency	
a. Electric Heat Pump	26.2	HSPF:7.70	
14. Hot water systems			
a. Electric		Cap: 40 gallons	
		EF: 0.920	
b. Conservation features			
None			
15. Credits		CF, Pstat	

Glass/Floor Area: 0.110

Total Proposed Modified Loads: 23.36

Total Standard Reference Loads: 45.73

PASS

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

PREPARED BY: _____

DATE: 10-20-14

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

OWNER/AGENT: _____

DATE: 10/20/14

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 403.2.2.1.1.**
- **Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist**

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

PROJECT

Title:	Barrs Residence	Bedrooms:	3	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	2337	Lot #	
Owner:	Cody Barrs	Total Stories:	1	Block/SubDivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:	Building Department	Cross Ventilation:		County:	Columbia
Jurisdiction:	Columbia County	Whole House Fan:		City, State, Zip:	, FL , 32024-
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	2337	21033

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2337	21033	Yes	6	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
____	1	Slab-On-Grade Edge Insulatio	Main	201 ft	9	2337 ft²	----	0.33	0.33	0.34

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
____	1	Hip	Composition shingles	2614 ft²	0 ft²	Dark	0.96	No	0.9	No	24	26.6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
____	1	Partial cathedral cei	Vented	300	2337 ft²	Y	N

CEILING

√	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
____	1	Under Attic (Vented)	Main	30	2337 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
____	1	N	Exterior	Frame - Wood	Main	24	18		9		162.0 ft²		0.23	0.75	0
____	2	W	Exterior	Frame - Wood	Main	24	8	6	9		76.5 ft²		0.23	0.75	0
____	3	NW	Exterior	Frame - Wood	Main	24	5	6	9		49.5 ft²		0.23	0.75	0
____	4	N	Exterior	Frame - Wood	Main	24	29	10	9		268.5 ft²		0.23	0.75	0
____	5	E	Exterior	Frame - Wood	Main	24	7	6	9		67.5 ft²		0.23	0.75	0
____	6	E	Garage	Frame - Wood	Main	24	28	8	9		258.0 ft²		0.23	0.75	0
____	7	E	Exterior	Frame - Wood	Main	24	11	10	9		106.5 ft²		0.23	0.75	0
____	8	S	Exterior	Frame - Wood	Main	24	13	4	9		120.0 ft²		0.23	0.75	0
____	9	E	Exterior	Frame - Wood	Main	24	2		9		18.0 ft²		0.23	0.75	0
____	10	S	Exterior	Frame - Wood	Main	24	22		9		198.0 ft²		0.23	0.75	0
____	11	W	Exterior	Frame - Wood	Main	24	2		9		18.0 ft²		0.23	0.75	0
____	12	S	Exterior	Frame - Wood	Main	24	18		9		162.0 ft²		0.23	0.75	0
____	13	W	Exterior	Frame - Wood	Main	24	34		9		306.0 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	E	Insulated	Main	None	0.400000	2	8	6	8	17.77777
_____	2	S	Insulated	Main	None	0.400000	3	0	6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	4	Vinyl	Low-E Double	Yes	0.3	0.3	72.0 ft²	11 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	2	S	8	Vinyl	Low-E Double	Yes	0.3	0.3	18.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	3	S	10	Vinyl	Low-E Double	Yes	0.3	0.3	48.0 ft²	7 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	4	S	12	None	Glazed Block	No	0.6	0.6	16.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	5	N	1	Vinyl	Low-E Double	Yes	0.3	0.3	40.0 ft²	15 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	6	NW	3	Vinyl	Low-E Double	Yes	0.3	0.3	33.3 ft²	5 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	7	W	13	Vinyl	Low-E Double	Yes	0.3	0.3	6.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None
_____	8	W	13	Vinyl	Low-E Double	Yes	0.3	0.3	24.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	800.8 ft²	800.8 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0.000300	1838.9	100.95	189.86	0.2310	5.2460

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump	None	HSPF: 7.7	26.2 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit	Single	SEER: 18	26 kBtu/hr	720 cfm	0.75	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0.92	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	CFM25 CFM25	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
_____	1	Attic	6	467.4 ft	Attic	116.85	Default Leakage	Main	cfm	(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		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

FORM 405-10

Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS:	PERMIT #:
, FL, 32024-	

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2 403.3.3	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code. Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 51

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

, , FL, 32024-

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?		No	
6. Conditioned floor area (ft²)		2337	
7. Windows**	Description		Area
a. U-Factor:	Dbl, U=0.30		241.33 ft²
SHGC:	SHGC=0.30		
b. U-Factor:	Gbl, default		16.00 ft²
SHGC:	Clear, default		
c. U-Factor:	N/A		ft²
SHGC:			
d. U-Factor:	N/A		ft²
SHGC:			
Area Weighted Average Overhang Depth:			8.111 ft.
Area Weighted Average SHGC:			0.319
8. Floor Types		Insulation	Area
a. Slab-On-Grade Edge Insulation		R=9.0	2337.00 ft²
b. N/A		R=	ft²
c. N/A		R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=24.0	1552.50 ft²
b. Frame - Wood, Adjacent	R=24.0	258.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²
10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	2337.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
11. Ducts		R ft²
a. Sup: Attic, Ret: Attic, AH: Main		6 467.4
12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	26.0	SEER:18.00
13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	26.2	HSPF:7.70
14. Hot water systems		
a. Electric		Cap: 40 gallons
		EF: 0.92
b. Conservation features		
None		
15. Credits		CF, 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: _____ Date: _____

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

*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 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Residential System Sizing Calculation

Summary

Cody Barrs

, FL 32024-

Project Title:
Barrs Residence

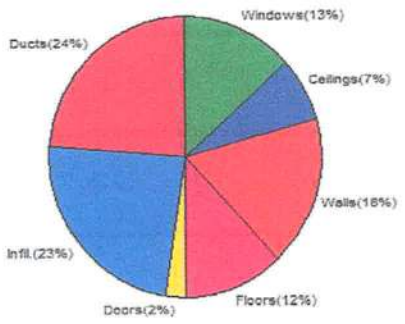
10/20/2014

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(54gr.)					
Winter design temperature(MJ8 99%)	33	F	Summer design temperature(MJ8 99%)	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**22478**	**Btuh**	**Total cooling load calculation**	**23521**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	116.6	26200	Sensible (SHR = 0.75)	112.1	19500
Heat Pump + Auxiliary(0.0kW)	116.6	26200	Latent	106.1	6500
			Total (Electric Heat Pump)	110.5	26000

WINTER CALCULATIONS

Winter Heating Load (for 2337 sqft)

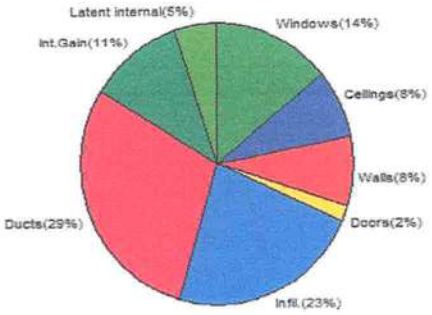
Load component			Load	
Window total	257	sqft	3034	Btuh
Wall total	1515	sqft	4019	Btuh
Door total	38	sqft	559	Btuh
Ceiling total	2337	sqft	1631	Btuh
Floor total	2337	sqft	2626	Btuh
Infiltration	130	cfm	5248	Btuh
Duct loss			5359	Btuh
Subtotal			**22478**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**22478**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2337 sqft)

Load component			Load	
Window total	257	sqft	3310	Btuh
Wall total	1515	sqft	1874	Btuh
Door total	38	sqft	423	Btuh
Ceiling total	2337	sqft	1852	Btuh
Floor total			0	Btuh
Infiltration	97	cfm	1808	Btuh
Internal gain			2580	Btuh
Duct gain			5519	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			26	Btuh
Total sensible gain			**17394**	**Btuh**
Latent gain(ducts)			1377	Btuh
Latent gain(infiltration)			3551	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**6128**	**Btuh**
TOTAL HEAT GAIN			**23521**	**Btuh**



Powered by ACCA MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 10-20-14

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Cody Barrs

, FL 32024-

Project Title:
Barrs Residence

10/20/2014

Reference City: Gainesville, FL Temperature Difference: 17.0F(MJ8 99%) Humidity difference: 54gr.

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	0.30, 0.30	B-L	No	N		11.5f	1.0ft	72.0	0.0	72.0	8	8	580 Btuh
2	2 NFRC	0.30, 0.30	B-L	No	S		1.5ft	1.0ft	18.0	18.0	0.0	8	10	145 Btuh
3	2 NFRC	0.30, 0.30	B-L	No	S		7.5ft	1.0ft	48.0	48.0	0.0	8	10	387 Btuh
4	Block	0.57, 0.60	B-L	No	S		1.5ft	1.0ft	16.0	16.0	0.0	16	20	257 Btuh
5	2 NFRC	0.30, 0.30	B-L	No	N		15.5f	1.0ft	40.0	0.0	40.0	8	8	322 Btuh
6	2 NFRC	0.30, 0.30	B-L	No	NW		5.5ft	1.0ft	33.3	0.0	33.3	8	18	587 Btuh
7	2 NFRC	0.30, 0.30	B-L	No	W		1.5ft	1.0ft	6.0	0.5	5.5	8	24	136 Btuh
8	2 NFRC	0.30, 0.30	B-L	No	W		1.5ft	1.0ft	24.0	1.0	23.0	8	24	560 Btuh
	Excursion													336 Btuh
	Window Total								257 (sqft)					3310 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.07	24.0/0.0	122.0	1.2	151 Btuh
2	Frame - Wood - Ext	0.07	24.0/0.0	76.5	1.2	95 Btuh
3	Frame - Wood - Ext	0.07	24.0/0.0	16.2	1.2	20 Btuh
4	Frame - Wood - Ext	0.07	24.0/0.0	196.5	1.2	244 Btuh
5	Frame - Wood - Ext	0.07	24.0/0.0	67.5	1.2	84 Btuh
6	Frame - Wood - Adj	0.07	24.0/0.0	240.2	1.2	293 Btuh
7	Frame - Wood - Ext	0.07	24.0/0.0	106.5	1.2	132 Btuh
8	Frame - Wood - Ext	0.07	24.0/0.0	102.0	1.2	126 Btuh
9	Frame - Wood - Ext	0.07	24.0/0.0	18.0	1.2	22 Btuh
10	Frame - Wood - Ext	0.07	24.0/0.0	130.0	1.2	161 Btuh
11	Frame - Wood - Ext	0.07	24.0/0.0	18.0	1.2	22 Btuh
12	Frame - Wood - Ext	0.07	24.0/0.0	146.0	1.2	181 Btuh
13	Frame - Wood - Ext	0.07	24.0/0.0	276.0	1.2	342 Btuh
	Wall Total			1515 (sqft)		1874 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Garage	17.8	11.2	199 Btuh
2	Insulated - Exterior	20.0	11.2	224 Btuh
	Door Total	38 (sqft)		423 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle/RB	0.019	30.0/24.0	2337.0	0.79	1852 Btuh
	Ceiling Total			2337 (sqft)		1852 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	9.0	2337 (ft-perimeter)	0.0	0 Btuh
	Floor Total		2337.0 (sqft)		0 Btuh

	Envelope Subtotal:	7459 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cody Barrs

, FL 32024-

Project Title: Barrs Residence

Climate:FL_GAINESVILLE_REGIONAL_A

10/20/2014

Infiltration	Type Natural	Average ACH 0.28	Volume(cuft) 21033	Wall Ratio 1		CFM= 97.2	Load 1808	Btuh
Internal gain		Occupants 6	Btuh/occupant X 230		+	Appliance 1200	Load 2580	Btuh
					Sensible Envelope Load:		11848	Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.466)		5519	Btuh
					Sensible Load All Zones		**17367**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cody Barrs
, FL 32024-

Project Title: Barrs Residence
Climate:FL_GAINESVILLE_REGIONAL_A

10/20/2014

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**11848 Btuh**
	Sensible Duct Load	5519 Btuh
	Total Sensible Zone Loads	**17367 Btuh**
	Sensible ventilation	0 Btuh
	Blower	26 Btuh
	Total sensible gain	**17394 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3551 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1377 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6128 Btuh**
	TOTAL GAIN	**23521 Btuh**

EQUIPMENT

1. Central Unit	#	26000 Btuh

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

Version 8

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Cody Barrs

, FL 32024-

Project Title:
Barrs Residence

10/20/2014

Reference City: Gainesville, FL Temperature Difference: 17.0F(MJ8 99%) Humidity difference: 54gr.

Component Loads for Room #1: Main

Window	Type* Panes	SHGC	U	InSh	IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2 NFRC	0.30, 0.30	B-L	No	N		11.5f	1.0ft	72.0	0.0	72.0	8	8	580 Btuh
2	2 NFRC	0.30, 0.30	B-L	No	S		1.5ft	1.0ft	18.0	18.0	0.0	8	10	145 Btuh
3	2 NFRC	0.30, 0.30	B-L	No	S		7.5ft	1.0ft	48.0	48.0	0.0	8	10	387 Btuh
4	Block	0.57, 0.60	B-L	No	S		1.5ft	1.0ft	16.0	16.0	0.0	16	20	257 Btuh
5	2 NFRC	0.30, 0.30	B-L	No	N		15.5f	1.0ft	40.0	0.0	40.0	8	8	322 Btuh
6	2 NFRC	0.30, 0.30	B-L	No	NW		5.5ft	1.0ft	33.3	0.0	33.3	8	18	587 Btuh
7	2 NFRC	0.30, 0.30	B-L	No	W		1.5ft	1.0ft	6.0	0.5	5.5	8	24	136 Btuh
8	2 NFRC	0.30, 0.30	B-L	No	W		1.5ft	1.0ft	24.0	1.0	23.0	8	24	560 Btuh
	Window Total								257 (sqft)					2974 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.07	24.0/0.0	122.0	1.2	151 Btuh
2	Frame - Wood - Ext	0.07	24.0/0.0	76.5	1.2	95 Btuh
3	Frame - Wood - Ext	0.07	24.0/0.0	16.2	1.2	20 Btuh
4	Frame - Wood - Ext	0.07	24.0/0.0	196.5	1.2	244 Btuh
5	Frame - Wood - Ext	0.07	24.0/0.0	67.5	1.2	84 Btuh
6	Frame - Wood - Adj	0.07	24.0/0.0	240.2	1.2	293 Btuh
7	Frame - Wood - Ext	0.07	24.0/0.0	106.5	1.2	132 Btuh
8	Frame - Wood - Ext	0.07	24.0/0.0	102.0	1.2	126 Btuh
9	Frame - Wood - Ext	0.07	24.0/0.0	18.0	1.2	22 Btuh
10	Frame - Wood - Ext	0.07	24.0/0.0	130.0	1.2	161 Btuh
11	Frame - Wood - Ext	0.07	24.0/0.0	18.0	1.2	22 Btuh
12	Frame - Wood - Ext	0.07	24.0/0.0	146.0	1.2	181 Btuh
13	Frame - Wood - Ext	0.07	24.0/0.0	276.0	1.2	342 Btuh
	Wall Total			1515 (sqft)		1874 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Garage	17.8	11.2	199 Btuh
2	Insulated - Exterior	20.0	11.2	224 Btuh
	Door Total	38 (sqft)		423 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle/RB	0.019	30.0/24.0	2337.0	0.79	1852 Btuh
	Ceiling Total			2337 (sqft)		1852 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	9.0	2337 (ft-perimeter)	0.0	0 Btuh
	Floor Total		2337.0 (sqft)		0 Btuh
			Zone Envelope Subtotal:		7124 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cody Barrs

, FL 32024-

Project Title: Barrs Residence

Climate:FL_GAINESVILLE_REGIONAL_A

10/20/2014

Infiltration	Type Natural	Wholehouse ACH 0.28	Volume(cuft) 21033	Wall Ratio 1.00	CFM= 97.2	Load 1808 Btuh
Internal gain		Occupants 6	Btuh/occupant X 230	+	Appliance 1200	Load 2580 Btuh
				Sensible Envelope Load:		11512 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)			(DGM of 0.466)		5363 Btuh
				Sensible Zone Load		**16875 Btuh**

The following window Excursion will be assigned to the system loads.

Windows	July excursion for System 1		336 Btuh
		Excursion Subtotal:	336 Btuh
Duct load			156 Btuh
		Sensible Excursion Load	**492 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Cody Barrs

, FL 32024-

Project Title: Barrs Residence

Climate:FL_GAINESVILLE_REGIONAL_A

10/20/2014

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**11848 Btuh**
	Sensible Duct Load	5519 Btuh
	Total Sensible Zone Loads	**17367 Btuh**
	Sensible ventilation	0 Btuh
	Blower	26 Btuh
	Total sensible gain	**17394 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3551 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1377 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6128 Btuh**
	TOTAL GAIN	**23521 Btuh**

EQUIPMENT

1. Central Unit	#	26000 Btuh

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

Version 8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Cody Barrs

, FL 32024-

Project Title:
Barrs Residence
Building Type: User

10/20/2014

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.30	Vinyl	0.30	N	72.0	11.1	799 Btuh
2	2, NFRC 0.30	Vinyl	0.30	S	18.0	11.1	200 Btuh
3	2, NFRC 0.30	Vinyl	0.30	S	48.0	11.1	533 Btuh
4	Glass block	None	0.60	S	16.0	22.2	355 Btuh
5	2, NFRC 0.30	Vinyl	0.30	N	40.0	11.1	444 Btuh
6	2, NFRC 0.30	Vinyl	0.30	NW	33.3	11.1	370 Btuh
7	2, NFRC 0.30	Vinyl	0.30	W	6.0	11.1	67 Btuh
8	2, NFRC 0.30	Vinyl	0.30	W	24.0	11.1	266 Btuh
	Window Total				257.3(sqft)		3034 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.072)	24.0/0.0	122	2.65	324 Btuh
2	Frame - Wood	- Ext	(0.072)	24.0/0.0	77	2.65	203 Btuh
3	Frame - Wood	- Ext	(0.072)	24.0/0.0	16	2.65	43 Btuh
4	Frame - Wood	- Ext	(0.072)	24.0/0.0	197	2.65	521 Btuh
5	Frame - Wood	- Ext	(0.072)	24.0/0.0	68	2.65	179 Btuh
6	Frame - Wood	- Adj	(0.072)	24.0/0.0	240	2.65	637 Btuh
7	Frame - Wood	- Ext	(0.072)	24.0/0.0	107	2.65	282 Btuh
8	Frame - Wood	- Ext	(0.072)	24.0/0.0	102	2.65	271 Btuh
9	Frame - Wood	- Ext	(0.072)	24.0/0.0	18	2.65	48 Btuh
10	Frame - Wood	- Ext	(0.072)	24.0/0.0	130	2.65	345 Btuh
11	Frame - Wood	- Ext	(0.072)	24.0/0.0	18	2.65	48 Btuh
12	Frame - Wood	- Ext	(0.072)	24.0/0.0	146	2.65	387 Btuh
13	Frame - Wood	- Ext	(0.072)	24.0/0.0	276	2.65	732 Btuh
	Wall Total				1515(sqft)		4019 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Garage,	n	(0.400)	18	14.8	263 Btuh
2	Insulated - Exterior,	n	(0.400)	20	14.8	296 Btuh
	Door Total			38(sqft)		559Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shing	(0.019)	30.0/24.0	2337	0.7	1631 Btuh
	Ceiling Total			2337(sqft)		1631Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(0.353)	9.0	201.0 ft(perim.)	13.1	2626 Btuh
	Floor Total			2337 sqft		2626 Btuh

	Envelope Subtotal:	11870 Btuh

Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural		0.37	21033	1.00	129.6	5248 Btuh

Duct load	Average sealed, R6.0, Supply(Att), Return(Att)	(DLM of 0.313)	5359 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Cody Barrs

, FL 32024-

Project Title:
Barrs Residence
Building Type: User

10/20/2014

All Zones	**Sensible Subtotal All Zones**	**22478 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	22478 Btuh 0 Btuh 22478 Btuh

EQUIPMENT

1. Electric Heat Pump	#	26200 Btuh

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

Version 8

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Cody Barrs
, FL 32024-

Project Title:
Barrs Residence
Building Type: User

10/20/2014

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)

Component Loads for Room #1: Main

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.30	Vinyl	0.30	N	72.0	11.1	799 Btuh
2	2, NFRC 0.30	Vinyl	0.30	S	18.0	11.1	200 Btuh
3	2, NFRC 0.30	Vinyl	0.30	S	48.0	11.1	533 Btuh
4	Glass block	None	0.60	S	16.0	22.2	355 Btuh
5	2, NFRC 0.30	Vinyl	0.30	N	40.0	11.1	444 Btuh
6	2, NFRC 0.30	Vinyl	0.30	NW	33.3	11.1	370 Btuh
7	2, NFRC 0.30	Vinyl	0.30	W	6.0	11.1	67 Btuh
8	2, NFRC 0.30	Vinyl	0.30	W	24.0	11.1	266 Btuh
	Window Total				257.3(sqft)		3034 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.072)	24.0/0.0	122	2.65	324 Btuh
2	Frame - Wood	- Ext	(0.072)	24.0/0.0	77	2.65	203 Btuh
3	Frame - Wood	- Ext	(0.072)	24.0/0.0	16	2.65	43 Btuh
4	Frame - Wood	- Ext	(0.072)	24.0/0.0	197	2.65	521 Btuh
5	Frame - Wood	- Ext	(0.072)	24.0/0.0	68	2.65	179 Btuh
6	Frame - Wood	- Adj	(0.072)	24.0/0.0	240	2.65	637 Btuh
7	Frame - Wood	- Ext	(0.072)	24.0/0.0	107	2.65	282 Btuh
8	Frame - Wood	- Ext	(0.072)	24.0/0.0	102	2.65	271 Btuh
9	Frame - Wood	- Ext	(0.072)	24.0/0.0	18	2.65	48 Btuh
10	Frame - Wood	- Ext	(0.072)	24.0/0.0	130	2.65	345 Btuh
11	Frame - Wood	- Ext	(0.072)	24.0/0.0	18	2.65	48 Btuh
12	Frame - Wood	- Ext	(0.072)	24.0/0.0	146	2.65	387 Btuh
13	Frame - Wood	- Ext	(0.072)	24.0/0.0	276	2.65	732 Btuh
	Wall Total				1515(sqft)		4019 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Garage,	n	(0.400)	18	14.8	263 Btuh
2	Insulated - Exterior,	n	(0.400)	20	14.8	296 Btuh
	Door Total			38(sqft)		559Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shing	(0.019)	30.0/24.0	2337	0.7	1631 Btuh
	Ceiling Total			2337(sqft)		1631Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(0.353)	9.0	201.0 ft(perim.)	13.1	2626 Btuh
	Floor Total			2337 sqft		2626 Btuh

	Room Envelope Subtotal:	11870 Btuh

Infiltration	Type	Wholehouse	ACH	Room Volume	Wall Ratio	CFM=	
	Natural		0.37	21033	1.00	129.6	5248 Btuh

Duct load		
	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.313)	5359 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Cody Barrs

, FL 32024-

Project Title:
Barrs Residence
Building Type: User

10/20/2014

Room #1	**Sensible Room Subtotal**	**22478 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	22478 Btuh 0 Btuh 22478 Btuh

EQUIPMENT

1. Electric Heat Pump	#	26200 Btuh

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

Version 8

BARRS RESIDENCE
HVAC LOAD ANALYSIS

for

BARRS RESIDENCE

FORT WHITE FL 32038

Prepared By:

DAVID HALL
DAVID HALL'S INC.
PO BOX 244
LAKE CITY FL 32056
386-755-9792
10/15/14

Miscellaneous Project Data

Project File Name: CODY BARRS

System Input Data

—System 1—	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum.	Indoor Dry Bulb	Grains Difference
Winter:	27	N/A	N/A	72	N/A
Summer:	98	78	50%	75	48

External Overhangs

No.	Projection	Offset	No.	Projection	Offset
1	3	1	6	0	0
2	5	0	7	0	0
3	4	0.5	8	0	0
4	0	0	9	0	0
5	0	0	10	0	0

Duct Sizing Inputs

	Runouts		Main Trunk	
Duct Material:	Flexible Duct		Galvanized Steel	
Roughness Factor:	0.010000		0.000300	
Pressure Drop:	0.1000	In.wg/100 Ft.	0.1000	In.wg/100 Ft.
Minimum Velocity:	450.0	Ft./Minute	650.0	Ft./Minute
Maximum Velocity:	750.0	Ft./Minute	900.0	Ft./Minute
Minimum Height:	0	Inches	0	Inches
Maximum Height:	0	Inches	0	Inches

Outside Air Data

	Winter		Summer	
Infiltration:	0.900	AC/Hr	0.400	AC/Hr
Volume of Conditioned Space:	X 24415	Cu.Ft.	X 24415	Cu.Ft.
	21,973	Cu.Ft./Hr	9,766	Cu.Ft./Hr
	X 0.0167		X 0.0167	
Total Building Infiltration:	366.225	CFM	162.7667	CFM
Total Building Ventilation:	0	CFM	0	CFM

—System 1—

Infiltration & Ventilation Sensible Gain Multiplier: 25.30 = (1.10 X 23.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier: 32.64 = (0.68 X 48.00 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier: 49.50 = (1.10 X 45.00 Winter Temp. Difference)

Total Building Summary Loads

Component Description	Area Quan	Sen. Loss	Lat. Gain	Sen. Gain	Total Gain
1H Window Low Emit Glass e=.4 TIM Frame	161	6,269	0	5,254	5,254
9G French Door Double Clear Glass Wood Frame	84	1,974	0	2,032	2,032
10D Door Wood Solid Core	42	870	0	514	514
12H Wall R-19 + 1/2" Gypsum Board(R-0.5)	1,747	4,718	0	2,786	2,786
16G Ceiling R-30 Insulation	2,337	3,472	0	3,625	3,625
22A Slab on Grade No Edge Insulation	203	7,400	0	0	0
Subtotals for structure:	4,574	24,703	0	14,211	14,211
Active People:	4	0	920	1,200	2,120
Inactive People:	0	0	0	0	0
Appliances:	0	0	1,700	1,700	3,400
Lighting:	0	0		9,548	
Ductwork:	0	2,143	0	3,078	3,078
Infiltration: Winter CFM: 366.2, Summer CFM: 162.8	287	18,127	5,314	4,117	9,431
Ventilation: Winter CFM: 0.0, Summer CFM: 0.0	0	0	0	0	0
Sensible Gain Total:				33,854	
Temperature Swing Multiplier:				X1.00	
Building Load Totals:		44,973	7,934	33,854	41,788

Check Figures

Total Building Supply CFM:	1539	CFM per square foot:	0.658
Square feet of room area:	2,337	Square feet per ton:	637.853

Building Loads

Total heating required with outside air:	44,973	Btuh	44.973 MBH
Total sensible gain:	33,854	Btuh	81 %
Total latent gain:	7,934	Btuh	19 %
Total cooling required with outside air:	41,788	Btuh	3.482 Tons (based on sensible + latent)
			3.664 Tons (based on 77% sensible capacity)

Notes

Calculations are based on 7th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System #1 Zone #1 Summary Loads

Component Description	Area Quan	Sen. Loss	Lat. Gain	Sen. Gain	Total Gain
1H Window Low Emit Glass e=.4 TIM Frame	161	6,269	0	5,254	5,254
9G French Door Double Clear Glass Wood Frame	84	1,974	0	2,032	2,032
10D Door Wood Solid Core	42	870	0	514	514
12H Wall R-19 + 1/2" Gypsum Board(R-0.5)	1,747	4,718	0	2,786	2,786
16G Ceiling R-30 Insulation	2,337	3,472	0	3,625	3,625
22A Slab on Grade No Edge Insulation	203	7,400	0	0	0
Subtotals for structure:	4,574	24,703	0	14,211	14,211
Active People:	4	0	920	1,200	2,120
Inactive People:	0	0	0	0	0
Appliances:	0	0	1,700	1,700	3,400
Lighting:	0	0		9,548	
Ductwork:	0	2,143	0	3,078	3,078
Infiltration: Winter CFM: 366.2, Summer CFM: 162.8	287	18,127	5,314	4,117	9,431
Ventilation: Winter CFM: 0.0, Summer CFM: 0.0	0	n/a	n/a	n/a	n/a
Sensible Gain Total:				33,854	
Temperature Swing Multiplier:				X1.00	
Zone Load Totals:		44,973	7,934	33,854	41,788

Check Figures

Supply CFM:	1,539	CFM per square foot:	0.658
Square feet of room area:	2,337	Square feet per ton:	637.853

Zone Loads

Total heating required with outside air:	44,973	Btuh	44.973 MBH
Total sensible gain:	33,854	Btuh	81 %
Total latent gain:	7,934	Btuh	19 %
Total cooling required with outside air:	41,788	Btuh	3.482 Tons (based on sensible + latent)
			3.664 Tons (based on 77% sensible capacity)

Room Load Summary Reports

System #1 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
	—Zone 1—											
1	Laundry	76	2,408	31	1-6	492	2,126	889	97	1.00	97	97
2	Bedroom #2	161	3,422	44	1-7	522	2,614	508	119	1.17	139	119
3	Bath #2	80	635	8	1-4	528	1,013	0	46	1.00	46	46
4	Bedroom #3	173	3,502	45	1-6	479	2,070	278	94	1.00	94	94
5	Bath #3	59	473	6	1-4	492	945	0	43	1.00	43	43
6	Hall	80	163	2	1-4	462	887	0	40	1.00	40	40
7	Great Room	550	8,352	108	2-7	563	5,682	1,359	258	1.17	301	258
8	Kitchen	284	588	8	1-7	561	3,301	1,430	150	1.00	150	150
9	Dining Room	257	11,247	146	1-10	484	5,808	1,611	264	1.00	264	264
10	Master Bedroom	270	9,014	117	1-9	506	4,917	1,452	224	1.00	224	224
11	Master Bath	153	3,544	46	1-7	454	2,298	296	104	1.16	121	104
12	Master Closets	194	1,625	21	3-3	677	2,193	111	100	1.00	100	100
System 1 Totals		2337	44,973	584			33,854	7,934	1,539		1,619	1,539

Main Trunk Size: 20x14 in.

System #1 Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	3.482	81%/19%	33,854	7,934	41,788
Recommended:	3.664	77%/23%	33,854	10,112	43,966

Alpine, an ITW Company

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1VAM215-Z0114143138

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

Truss Fabricator:	W.B. Howland
Job Identification:	8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. -- Columbia County, FL
Truss Count:	11
Model Code:	Florida Building Code 2010
Truss Criteria:	FBC2010Res/TPI-2007(STD)
Engineering Software:	Alpine Software,Version 13.02.
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

10/14/2014

Walter P. Finn
-Truss Design Engineer-

2400 Lake Orange Dr, Suite 150
Orlando FL, 32837

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

Details: 14015EC1-GBLLETIN-BRCLBSUB-PB16010-14030EC1-

#	Ref	Description	Drawing#	Date
1	49372	--A01	14287001	10/14/14
2	49373	--A02	14287002	10/14/14
3	49374	--B01	14287003	10/14/14
4	49375	--B02	14287004	10/14/14
5	49376	--B03	14287005	10/14/14
6	49377	--B04	14287006	10/14/14
7	49378	--C01	14287007	10/14/14
8	49379	--C02	14287008	10/14/14
9	49380	--PB1	14287009	10/14/14
10	49381	--PB2	14287010	10/14/14
11	49382	--PB3	14287011	10/14/14

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

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. -- Columbia County, FL - A01)

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

Truss designed to support 8" maximum gable end overhang.

See DWGS A14015ENC101014 & GBLLETIN1014 for gable wind bracing requirements.

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. Failure to follow provisions of BCSI in handling and installation of trusses can result in serious injuries. Do not permit inexperienced and uninstructed people to install trusses. See "WARNING" note below. BCSI recommends retaining a registered professional engineer for the design of temporary bracing.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17.00 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.

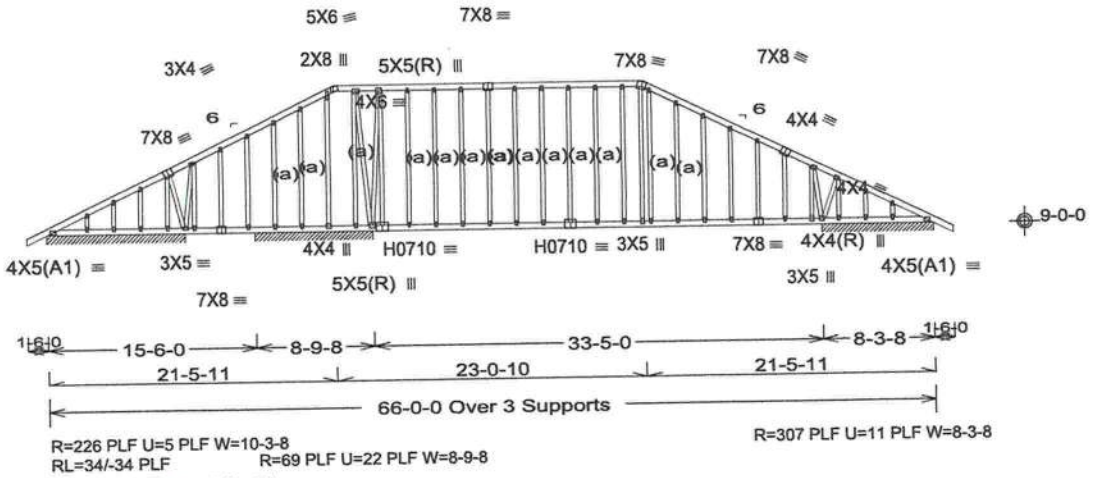
(a) Continuous lateral restraint equally spaced on member.

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

Calculated vertical deflection is 0.58" due to live load and 1.24" due to dead load at X = 35-0-0.

The overall height of this truss excluding overhang is 11-3-4.

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



Note: All Plates Are 2X4 Except As Shown.

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

13.02.05.0209.13

QTY:2

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

Scale =.09375"/Ft.

PLT TYP. 20 Gauge HS,Wave

ALPINE
AN ITW COMPANY

3400 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.

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

WALTER P. FINN LICENSE No. 22639 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL	20.0 PSF	REF	R215-- 49372
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287001
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF	SEQN-	419037
DUR.FAC.	1.25		FROM CDM
SPACING	24.0"	JREF-	1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. – Columbia County, FL - A02)

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

Calculated horizontal deflection is 0.33" due to live load and 0.56" due to dead load.

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

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

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

The overall height of this truss excluding overhang is 11-3-4.

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

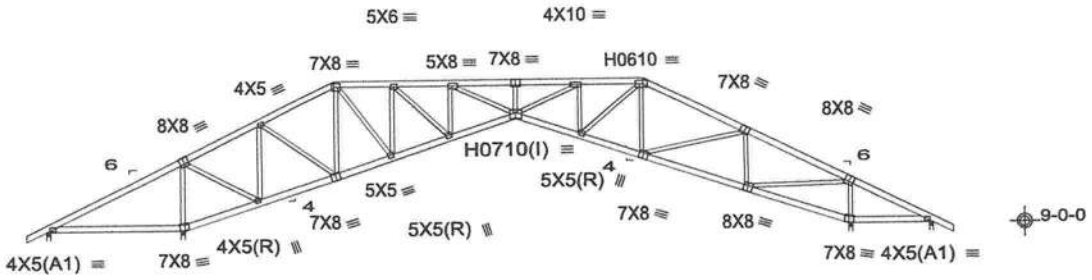
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

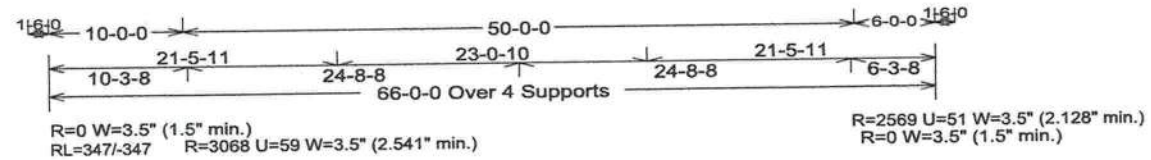
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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. Failure to follow provisions of BCSI in handling and installation of trusses can result in serious injuries. Do not permit inexperienced and uninstructed people to install trusses. See "WARNING" note below. BCSI recommends retaining a registered professional engineer for the design of temporary bracing.





R=0 W=3.5" (1.5" min.)
RL=347/-347 R=3068 U=59 W=3.5" (2.541" min.)

R=2569 U=51 W=3.5" (2.128" min.)
R=0 W=3.5" (1.5" min.)

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0) 13.02.05.0209.13 QTY:10 FL/-/1/-/-/R/- Scale =.09375"/Ft.

PLT TYP. 20 Gauge HS,Wave

ALPINE 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.

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

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL 20.0 PSF	REF R215-- 49373
TC DL 10.0 PSF	DATE 10/14/14
BC DL 10.0 PSF	DRW HCUSR215 14287002
BC LL 0.0 PSF	HC-ENG GA/WPF
TOT.LD. 40.0 PSF	SEQN- 419038
DUR.FAC. 1.25	FROM CDM
SPACING 24.0"	JREF- 1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. -- Columbia County, FL - B01)

Top chord 2x4 SP M-31
Bot chord 2x6 SP M-31 :B2, B3 2x4 SP M-31:
Webs 2x4 SP M-31

Calculated horizontal deflection is 0.17" due to live load and 0.27" due to dead load.

(a) Continuous lateral restraint equally spaced on member.

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.

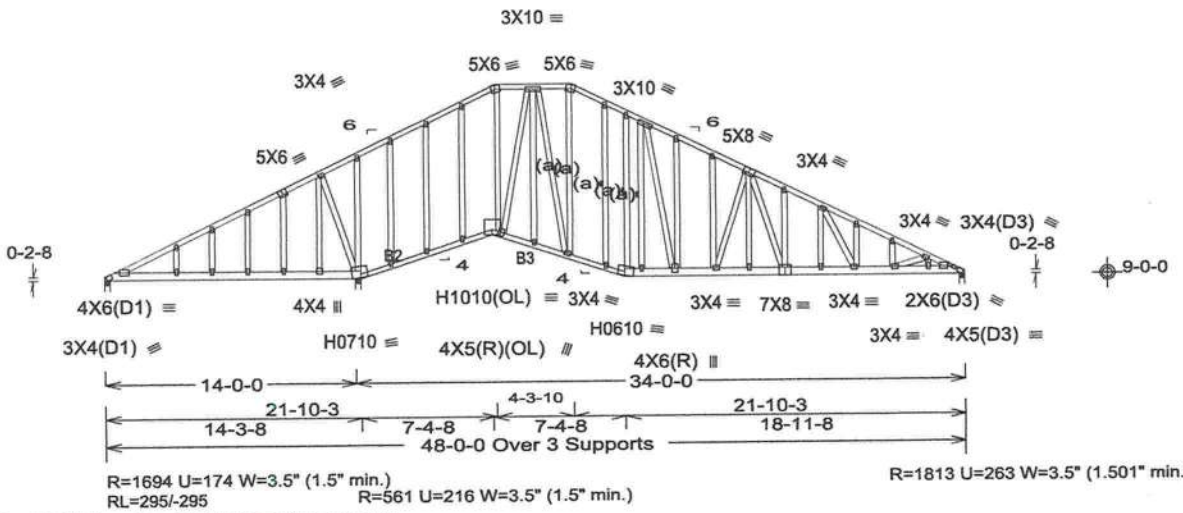
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

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.

The overall height of this truss excluding overhang is 11-1-9.



R=1694 U=174 W=3.5" (1.5" min.)
RL=295/-295

R=561 U=216 W=3.5" (1.5" min.)

R=1813 U=263 W=3.5" (1.501" min.)

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave

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

13.02.05 [illegible]-13

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

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.alpinesitw.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL	20.0 PSF	REF	R215-- 49374
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287003
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF	SEQN-	419029
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. -- Columbia County, FL - B02)

Top chord 2x4 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.

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.

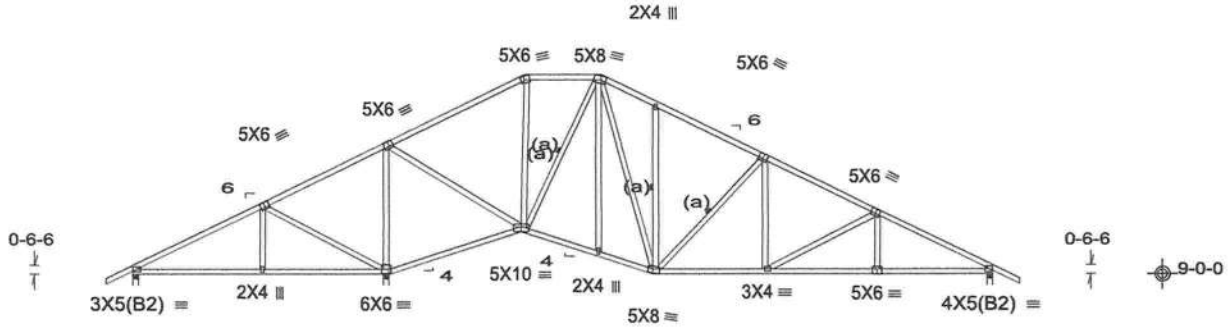
The overall height of this truss excluding overhang is 11-5-8.

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.

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

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. Wave | FT/RT=20%(0%)/10(0) | 13.02.05 [illegible] 13 | QTY:9 | FL/-/1/-/-/R/- | Scale =.125"/Ft.

ALPINE
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.

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

WALTER P. FINN LICENSE No. 22639 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL	20.0 PSF	REF	R215-- 49375
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287004
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF	SEQN-	419030
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. -- Columbia County, FL - B03)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31
:Lt Wedge 2x4 SP M-31::Rt Wedge 2x4 SP M-31:

Calculated horizontal deflection is 0.12" due to live load and 0.15" due to dead load.

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.

The overall height of this truss excluding overhang is 11-5-8.

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

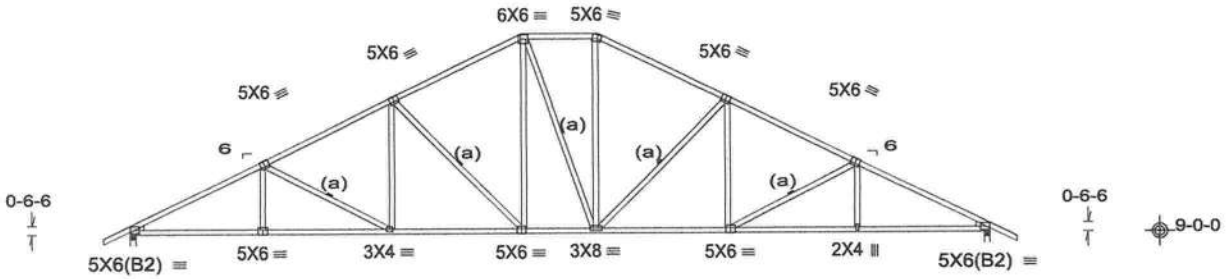
Wind loads and reactions based on MWFRS with additional C&C member design.

(a) Continuous lateral restraint equally spaced on member.

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

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.

MWFRS loads based on trusses located at least 30.00 ft. from roof edge.



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

PLT TYP. Wave

13.02.05 [illegible] 13

QTY:7

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

Scale =.125"/Ft.

ALPINE
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.

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

WALTER T. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL	20.0 PSF	REF	R215-- 49376
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287005
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF	SEQN-	419033
DUR.FAC.	1.25		FROM CDM
SPACING	24.0"	JREF-	1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. -- Columbia County, FL - B04)

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

See DWGS A14015ENC101014 & GBLLETIN1014 for gable wind bracing requirements.

(a) Continuous lateral restraint equally spaced on member.

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.

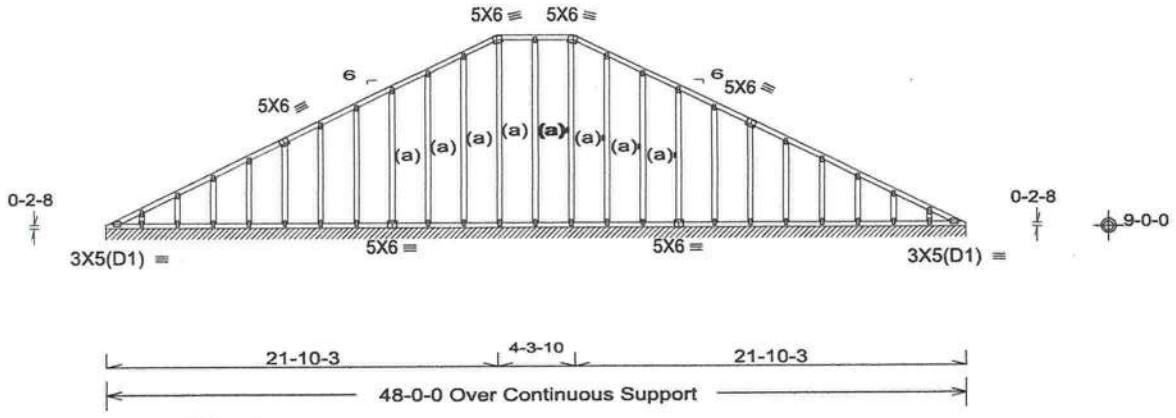
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

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.

The overall height of this truss excluding overhang is 11-1-9.



R=80 PLF U=14 PLF W=48-0-0
RL=6/-6 PLF

Note: All Plates Are 2X4 Except As Shown.

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

PLT TYP. Wave

13.02.05 0800.13

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

"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 relating 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/or 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

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL	20.0 PSF	REF	R215-- 49377
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287006
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF	SEQN-	419035
DUR.FAC.	1.25		FROM CDM
SPACING	24.0"	JREF-	1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. – Columbia County, FL - C01)

Top chord 2x4 SP M-31 :T2, T3 2x6 SP M-31:
Bot chord 2x6 SP M-31 :B3 2x4 SP M-31:
Webs 2x4 SP M-31

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

Calculated horizontal deflection is 0.11" due to live load and 0.22" due to dead load.

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

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

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

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

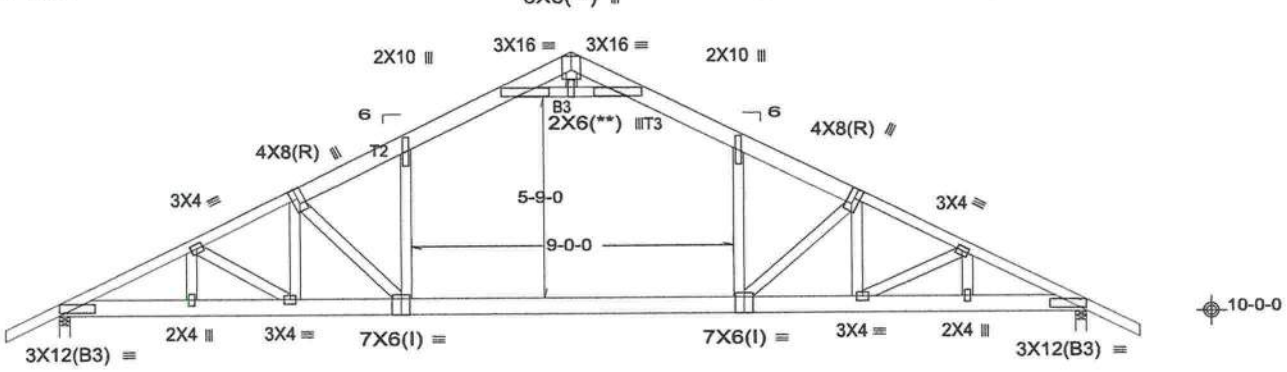
(I) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

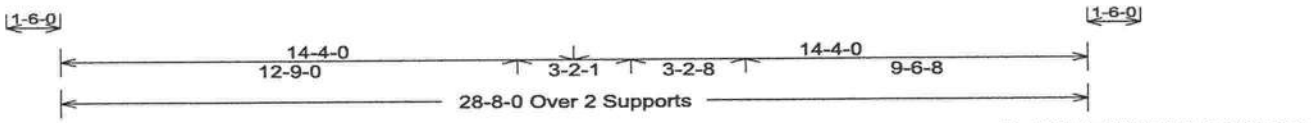
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 9-10-0 to 18-10-0.

The overall height of this truss excluding overhang is 7-6-3.





R=1866 U=227 W=3.5" (1.545" min.)
RL=220/-220

R=1866 U=227 W=3.5" (1.545" min.)

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

PLT TYP. Wave

13.02.05.0800.13

QTY:14 FL/-/1/-/-/R/-

Scale =.25"/Ft.

TC LL 20.0 PSF	REF R215-- 49378
TC DL 10.0 PSF	DATE 10/14/14
BC DL 10.0 PSF	DRW HCUSR215 14287007
BC LL 0.0 PSF	HC-ENG GA/WPF
TOT.LD. 40.0 PSF	SEQN- 419798
DUR.FAC. 1.25	FROM CDM
SPACING 24.0"	JREF- 1VAM215_Z01

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.alpinaltw.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. – Columbia County, FL - C02)

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

See DWGS A14015ENC101014 & GBLLETIN1014 for gable wind bracing requirements.

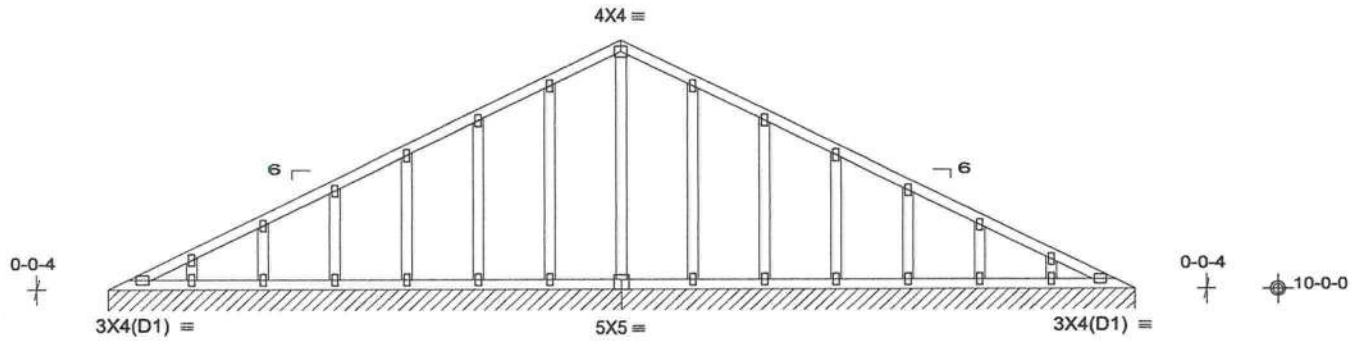
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 7-2-4.

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.

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



R=85 PLF U=10 PLF W=14-4-0
RL=12/-12 PLF

R=75 PLF U=16 PLF W=14-4-0

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 QTY:1 FL/-/1/-/-/R/- Scale =.25"/Ft.

ALPINE 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.

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/or 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

WALTER R. FINN LICENSE No. 22939 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL	20.0 PSF	REF	R215-- 49379
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287008
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF	SEQN-	419031
DUR.FAC.	1.25		FROM CDM
SPACING	24.0"	JREF-	1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. -- Columbia County, FL - PB1)

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

130 mph wind, 21.01 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=2.0 psf. GCpi(+/-)=0.18

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

The overall height of this truss excluding overhang is 1-0-15.

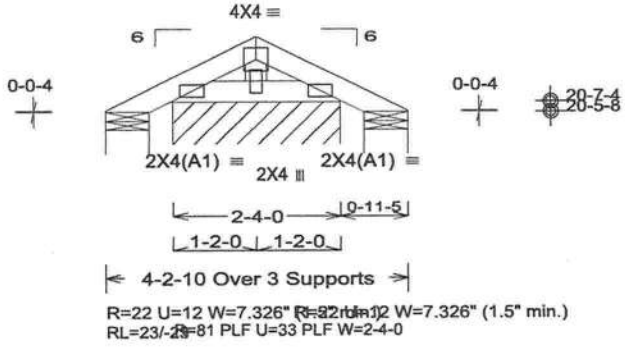
Refer to DWG PB160100212 for piggyback details.

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

TC- From	60 plf at	-0.94 to	60 plf at	1.17
TC- From	60 plf at	1.17 to	60 plf at	3.28
BC- From	4 plf at	-0.94 to	4 plf at	3.28

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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



R=22 U=12 W=7.326" (1.5" min.) R=22 U=12 W=7.326" (1.5" min.)
RL=23/-23 PLF U=81 PLF U=33 PLF W=2-4-0

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 13.02.05 [illegible] | QTY:18 | FL/-/1/-/-/R/- | Scale =.5"/Ft.

ALPINE™ 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.

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/or 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

WALTER P. FINN LICENSE No. 22939 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL	20.0 PSF	REF	R215-- 49380
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287009
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF	SEQN-	419034
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. – Columbia County, FL - PB2)

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

130 mph wind, 23.16 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=2.0 psf. GCpi(+/-)=0.18

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

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

The overall height of this truss excluding overhang is 5-9-2.

MWFRS loads based on trusses located at least 11.58 ft. from roof edge.

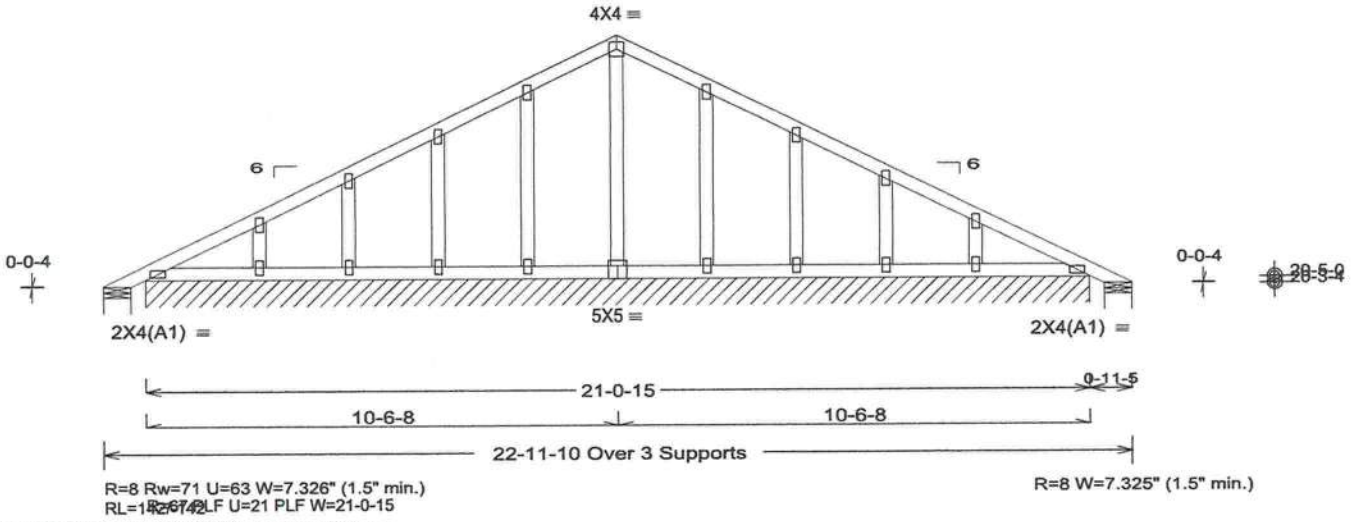
Refer to DWG PB160100212 for piggyback details.

Special loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 60 plf at -0.94 to 60 plf at 10.54
TC- From 60 plf at 10.54 to 60 plf at 22.02
BC- From 4 plf at -0.94 to 4 plf at 22.02

Truss designed to support 8" maximum gable end overhang.

See DWGS A14030ENC101014 & GBLLETIN1014 for gable wind bracing requirements.

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



Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 QTY:2 FL/-/1/-/-/R/- Scale =.3125"/Ft.

ALPINE 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.

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/or 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

WALTER P. FINN LICENSE No. 22639 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/14/2014

TC LL	20.0 PSF	REF	R215-- 49381
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287010
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF		SEQN- 419040
DUR.FAC.	1.25		FROM CDM
SPACING	24.0"		JREF- 1VAM215_Z01

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

(8800-/BARRS RESIDENCE /LITTLE & WILLIAMS INC. – Columbia County, FL - PB3)

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

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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

The overall height of this truss excluding overhang is 5-9-2.

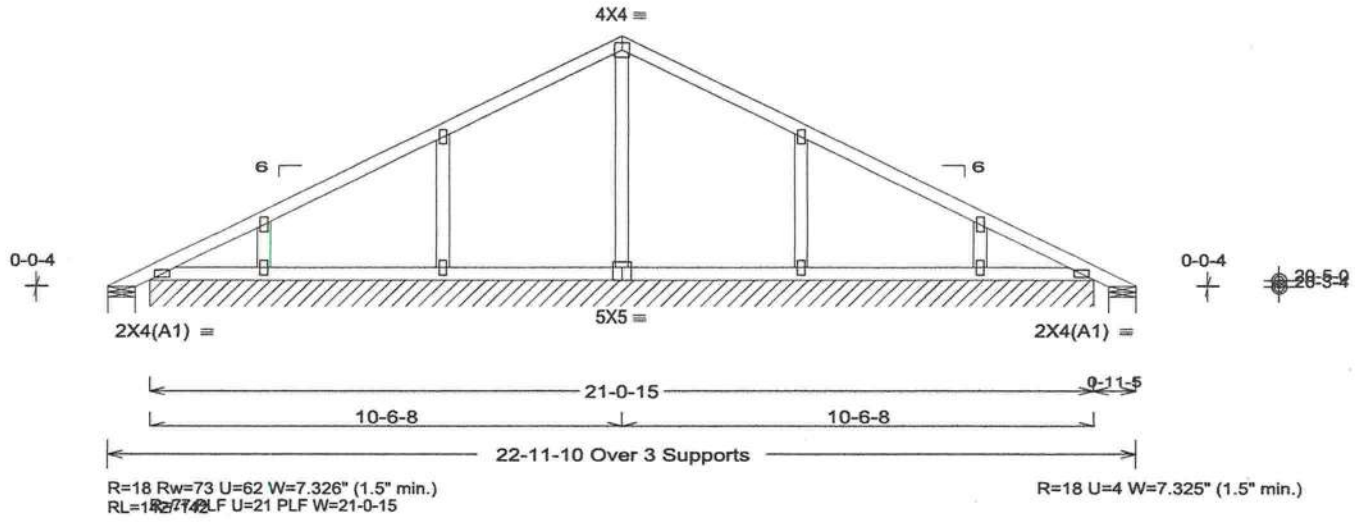
Refer to DWG PB160100212 for piggyback details.

130 mph wind, 23.16 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=2.0 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 11.58 ft. from roof edge.



R=18 Rw=73 U=62 W=7.326" (1.5" min.)
RL=142 RW=142 LF U=21 PLF W=21-0-15

R=18 U=4 W=7.325" (1.5" min.)

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05.0209.13 QTY:10 FL/-/1/-/-/R/- Scale =.3125"/Ft.

ALPINE 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.

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

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/2014

TC LL	20.0 PSF	REF	R215-- 49382
TC DL	10.0 PSF	DATE	10/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14287011
BC LL	0.0 PSF		HC-ENG GA/WPF
TOT.LD.	40.0 PSF	SEQN-	419039
DUR.FAC.	1.25		FROM CDM
SPACING	24.0"	JREF-	1VAM215_Z01

Gable Stud Reinforcement Detail

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

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

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A:

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

Douglas Fir-Larch	Southern Pine***
#3	#3
Stud	Stud
Standard	Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch	Southern Pine***
#1	#1
#2	#2

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

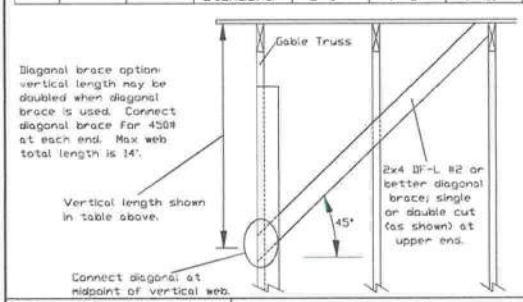
** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

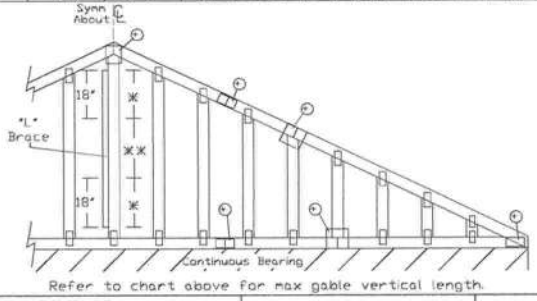
"L" bracing must be a minimum of 80% of web member length.

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

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

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





Refer to chart above for max gable vertical length.

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

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

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & 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 Sec2.

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

ALPINE
AN ITW COMPANY
13389 Lakefront Drive
Earth City, MO 63045

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER
Oct 10, 14

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

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

10/14/2014

Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

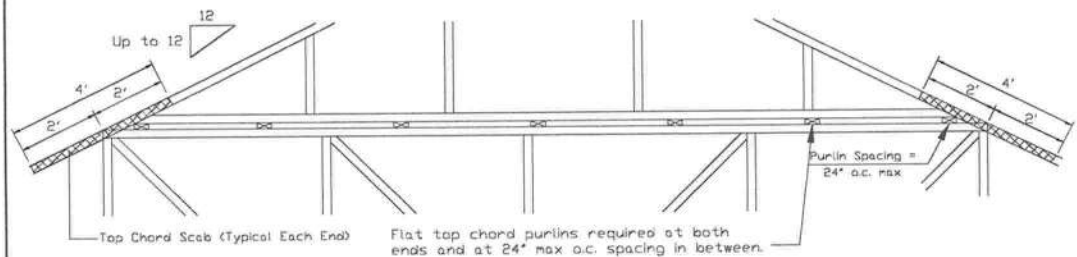
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24" o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A : Purlin Spacing = 24" o.c. or less



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

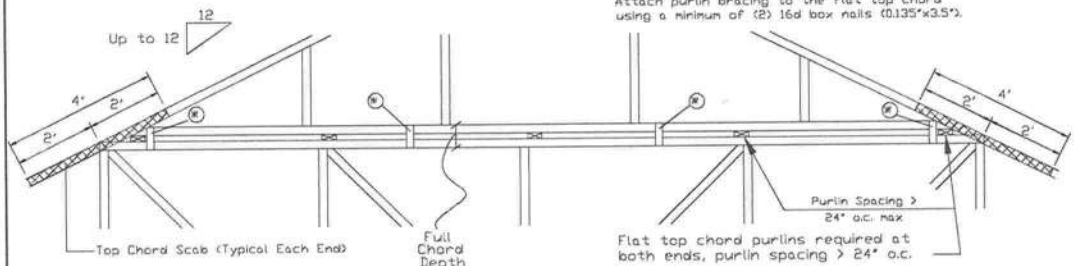
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

Detail B : Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24" o.c. max. and use Detail A.

* In addition, provide connection with one of the following methods:

Trulox
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8" o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4" o.c. front to back faces.

APA Rated Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8" o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4" o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8" o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4" o.c. front to back faces.

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8" o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4" o.c. front to back faces.

ALPINE™
AN ITW COMPANY

13389 Lakefront Drive
Earth City, MO 63045

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

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

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & 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.alpinebc.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

10/14/14

SPACING 24.0"

REF	PIGGYBACK
DATE	10/01/14
DRWG	PB160101014

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-reinforcement or scab reinforcement.

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

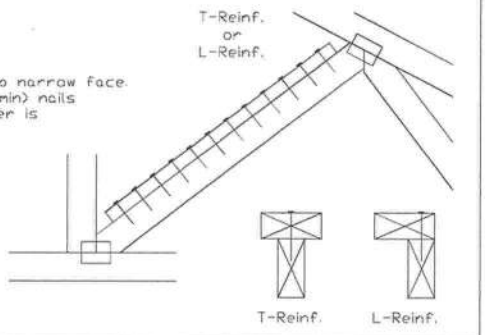
Web Member Size	Specified CLR Restraint	Alternative Reinforcement T- or L- Reinf.	Alternative Reinforcement Scab Reinf.
2x3 or 2x4 2x3 or 2x4	1 row 2 rows	2x4 2x6	1-2x4 2-2x4
2x6 2x6	1 row 2 rows	2x4 2x6	1-2x6 2-2x4⊗⊗
2x8 2x8	1 row 2 rows	2x6 2x6	1-2x8 2-2x6⊗⊗

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.

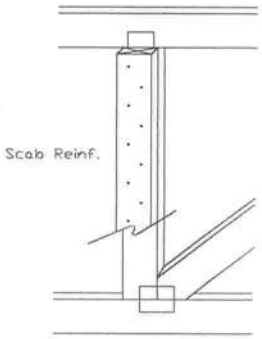
T-Reinforcement or L-Reinforcement:

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
13389 Lakefront Drive
Earth City, MO 63045

WWARNINGWW READ AND FOLLOW ALL NOTES ON THIS DRAWING
WIMPORTANTW FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 168A-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 Sec2.

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

WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

#32423

Alpine, an ITW Company

2400 Lake Orange Drive suite 150 Orlando FL 32837
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1VCK215-Z0223155741

Truss Fabricator:	**W.B. Howland**
Job Identification:	**REPAIR / 8800B (REPAIR / 8800B-)**
Truss Count:	**2**
Model Code:	**Florida Building Code 2010**
Truss Criteria:	**FBC2010Res/TPI-2007(STD)**
Engineering Software:	**Alpine Software,Version 13.02.**
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

12/23/2014

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**

Walter P. Finn
-Truss Design Engineer-

2400 Lake Orange Dr, Suite 150
Orlando FL, 32837

Details: -

#	Ref	Description	Drawing#	Date
1	8558	-MAC/A02 REPAIR 1	14357007	12/23/14
2	8558	--A02 REPAIR 2	14357009	12/23/14

Truss Repair

(REPAIR / 8800B - A02 REPAIR 1)

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

TRUSS REPAIRED TO MODIFY BEARING CONDITION AT LEFT END.

REFER TO DRAWING HCUSR215 14329007 FOR DETAILS NOT SHOWN ON THIS DRAWING.

REPAIR(S) MUST COMPLY WITH ALPINE DESIGNS AND SPECIFICATIONS.

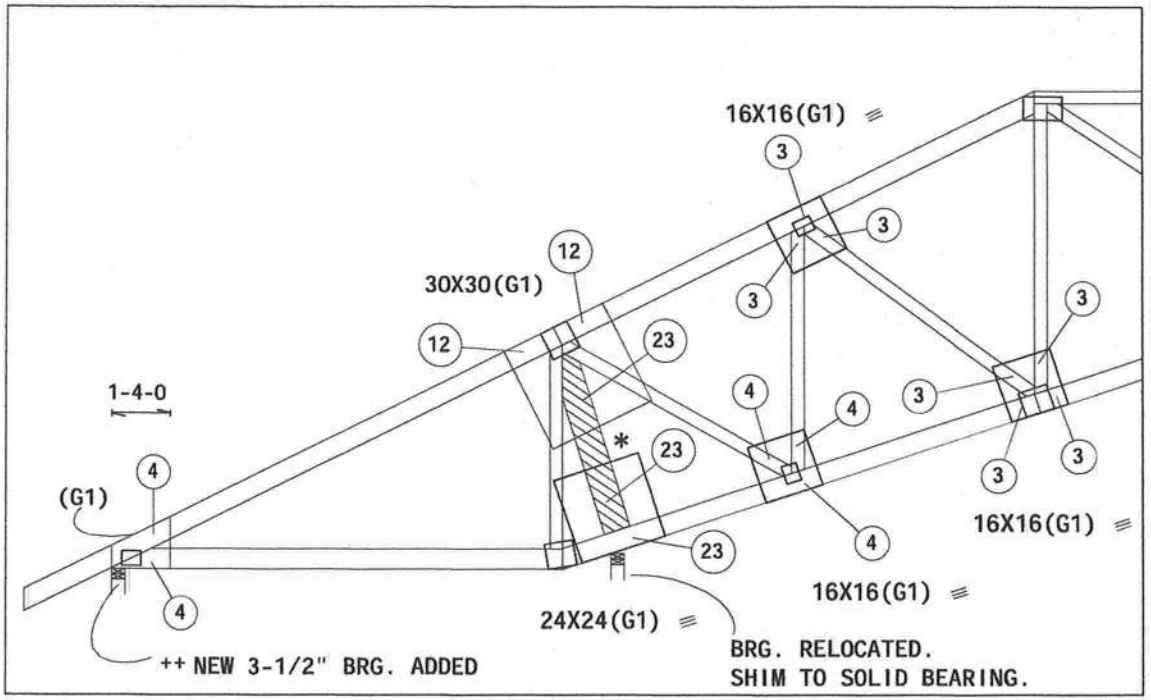
NOTE: PRIOR TO AND DURING THE REPAIR OPERATION, THIS TRUSS AND ANY SUPPORTED SPANS MUST BE TEMPORARILY BRACED AND SHORED. THE DESIGN AND POSITIONING OF THIS BRACING AND SHORING TO BE DESIGNED BY OTHERS.

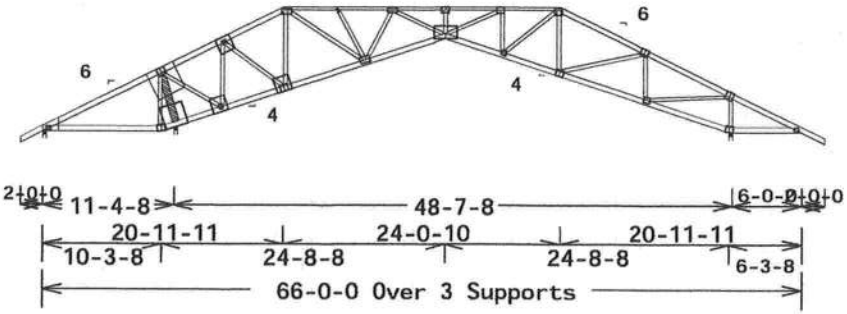
* NEW 2X8X(CUT TO FIT) SP #2_13B MEMBER IN PLANE OF TRUSS AS SHOWN.

(G1)3/4"X(CUT TO FIT AS SHOWN) APA RATED 48/24 SHEATHING (PLYWOOD OR OSB) GUSSETS. ATTACH ONE GUSSET TO EACH OUTSIDE FACE OF TRUSS WITH 8d COMMON (0.131"X2.5") NAILS @ 2" O.C. STAGGERED THROUGHOUT ALL WEBS AND CHORDS, WITHOUT SPLITTING LUMBER. MINIMUM NAILING PER GUSSET AS SHOWN BY CIRCLED NUMBERS.

++ THIS BEARING CONDITION, FOUNDATION AND ANY SUPPORTS AND CONNECTIONS MUST BE APPROVED AND PROVIDED BY THE BUILDING DESIGNER.

** Negative reaction(s) of -1588# MAX. (See below) from a non-wind load case requires uplift connection.





** R=-1588 U=702 W=3.5"
RL=354/-354
R=4796 U=0 W=3.5"
R=2164 U=51 W=3.5"

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 13.02.09 QTY:0 FL/-/5/-/E/-/- Scale =.0625"/Ft.

ALPINE AN ITW COMPANY

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

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR. IN SOME CASES THE PRUDENT SOLUTION IS TO SCRAP THE DAMAGED TRUSSES AND REBUILD. INTERNAL WOOD FIBER DAMAGE AND EXCESSIVE CONNECTOR STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED. THEREFORE, IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD.

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPORTED BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED. A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE, IF ANY, AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING.

WALTER P. FINN LICENSE No. 22839 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/23/2014

TC LL	20.0 PSF	REF	R215-- 8558
TC DL	10.0 PSF	DATE	12/23/14
BC DL	10.0 PSF	DRW	HCUSR215 14357007
BC LL	0.0 PSF		HC-ENG MAC/WPF
TOT.LD.	40.0 PSF	SEQN-	43224
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VCK215_Z02

(REPAIR / 8800B - A02 REPAIR 2)

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

TRUSS REPAIRED TO MODIFY BEARING CONDITION AT LEFT END.

REFER TO DRAWING HCUSR215 14329007 FOR DETAILS NOT SHOWN ON THIS DRAWING.

REPAIR(S) MUST COMPLY WITH ALPINE DESIGNS AND SPECIFICATIONS.

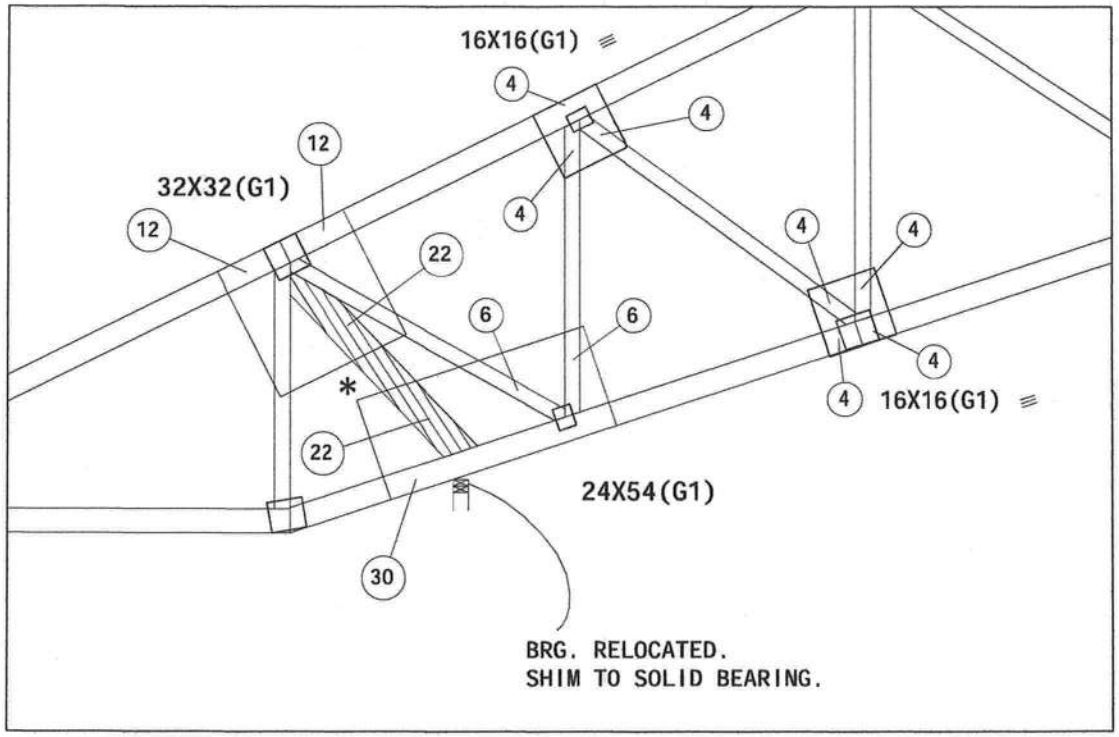
NOTE: PRIOR TO AND DURING THE REPAIR OPERATION, THIS TRUSS AND ANY SUPPORTED SPANS MUST BE TEMPORARILY BRACED AND SHORED. THE DESIGN AND POSITIONING OF THIS BRACING AND SHORING TO BE DESIGNED BY OTHERS.

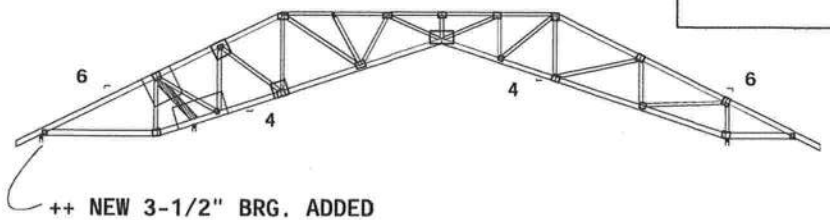
* NEW 2X8X(CUT TO FIT) SP #2_13B MEMBER IN PLANE OF TRUSS AS SHOWN.

(G1)3/4"X(CUT TO FIT AS SHOWN) APA RATED 48/24 SHEATHING (PLYWOOD OR OSB) GUSSETS. ATTACH ONE GUSSET TO EACH OUTSIDE FACE OF TRUSS WITH 8d COMMON (0.131"X2.5") NAILS @ 2" O.C. STAGGERED THROUGHOUT ALL WEBS AND CHORDS, WITHOUT SPLITTING LUMBER. MINIMUM NAILING PER GUSSET AS SHOWN BY CIRCLED NUMBERS.

++ THIS BEARING CONDITION, FOUNDATION AND ANY SUPPORTS AND CONNECTIONS MUST BE APPROVED AND PROVIDED BY THE BUILDING DESIGNER.

** Negative reaction(s) of -1176# MAX. (See below) from a non-wind load case requires uplift connection.





Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 13.02.09.0508.19 QTY:0 FL/-/5/-/E/-/- Scale =.0625"/Ft.

ALPINE AN ITW COMPANY

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

TRUSS REPAIR

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR. IN SOME CASES THE PRUDENT SOLUTION IS TO SCRAP THE DAMAGED TRUSSES AND REBUILD. INTERNAL WOOD FIBER DAMAGE AND EXCESSIVE CONNECTOR STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED. THEREFORE, IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD.

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPORTED BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED. A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE, IF ANY, AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING.

12/23/2014

TC LL	20.0 PSF	REF	R215-- 8558
TC DL	10.0 PSF	DATE	12/23/14
BC DL	10.0 PSF	DRW	HCUSR215 14357009
BC LL	0.0 PSF		HC-ENG MAC/WPF
TOT.LD.	40.0 PSF	SEQN-	43231
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1VCK215_Z02

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 17-7S-16-04233-002 **Building permit No.** 000032423

Use Classification SFD/UTILITY **Fire:** 118.56

Permit Holder MATTHEW CUMMINGS **Waste:** 96.54

Owner of Building CODY & WHITNEY BARRS **Total:** 215.10

Location: 466 SW GERANIUM LN, FT. WHITE, FL 32038

Date: 04/29/2015

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)