

DATE 02/01/2017

Columbia County Building Permit

PERMIT

000034895

This Permit Must Be Prominently Posted on Premises During Construction

APPLICANT KEN ELWOOD

PHONE 352-538-0822

ADDRESS PO BOX 357566

GAINESVILLE

FL 32635

OWNER JAMES GALLONEY

PHONE

ADDRESS 956

SW MORNING STAR GLEN

FORT WHITE

FL 32038

CONTRACTOR KEN ELWOOD

PHONE 352-538-0822

LOCATION OF PROPERTY 47 S. L MORNING STAR GLEN, GO .88 MILES ON RIGHT

TYPE DEVELOPMENT SFD, UTILITY

ESTIMATED COST OF CONSTRUCTION 155500.00

HEATED FLOOR AREA 2290.00

TOTAL AREA 3110.00

HEIGHT

STORIES 1

FOUNDATION CONCRETE

WALLS FRAMED

ROOF PITCH

FLOOR SLAB

LAND USE & ZONING AG-3

MAX. HEIGHT 35

Minimum Set Back Requirements:

STREET-FRONT 30.00

REAR 25.00

SIDE 25.00

NO. EX.D.U. 0

FLOOD ZONE X

DEVELOPMENT PERMIT NO.

PARCEL ID 34-5S-16-03752-212

SUBDIVISION ANCIENT OAKS

LOT 12

BLOCK

PHASE

UNIT

TOTAL ACRES 5.00

CGC1517187

Contractor's License Number

CGC1517187

Applicant/Owner/Contractor

EXISTING

Culvert Waiver

17-0051

BS

TC

N

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

Time/STUP No.

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD

NOC ON FILE

Check # or Cash 8741

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power

Foundation

Monolithic

(footer/Slab)

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

Electrical rough-in

date/app. by

Rough-in plumbing above slab and below wood floor

date/app. by

Pool

date/app. by

Heat & Air Duct

date/app. by

Peri. beam (Lintel)

date/app. by

Culvert

date/app. by

Permanent power

date/app. by

C.O. Final

date/app. by

M/H tie downs, blocking, electricity and plumbing

date/app. by

Pump pole

date/app. by

Utility Pole

date/app. by

Reconnection

date/app. by

RV

date/app. by

Re-roof

date/app. by

BUILDING PERMIT FEE \$ 780.00

CERTIFICATION FEE \$ 15.55

SURCHARGE FEE \$ 15.55

MISC. FEES \$ 0.00

ZONING CERT. FEE \$ 50.00

FIRE FEE \$ 0.00

WASTE FEE \$

PLAN REVIEW FEE \$ 195.00

DP & FLOOD ZONE FEE \$ 25.00

CULVERT FEE \$

TOTAL FEE 1081.10

INSPECTORS OFFICE

CLERKS OFFICE

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

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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

ck: 8741

#1081.10

Columbia County New Building Permit Application

For Office Use Only Application # 1701-57 Date Received 1-20-17 By UH Permit # 34895
 Zoning Official [Signature] Date 1-27-17 Flood Zone X Land Use A Zoning A-3
 FEMA Map # _____ Elevation _____ MFE 1' above River _____ Plans Examiner 1C Date 1-26-17

Comments
☒ NOC ☒ DEH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☒ Well letter ☒ 911 Sheet ☐ Parent Parcel # _____
☐ Dev Permit # _____ ☐ In Floodway ☐ Letter-of-Auth. from Contractor ☐ F W Comp. letter _____
☐ Owner-Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☒ App Fee Paid ☒ Sub VF Form _____

Septic Permit No. 17-0051 OR City Water _____ Fax _____
 Applicant (Who will sign/pickup the permit) Ken Elwood Phone (352) 538-0822
 Address PO Box 357566 Gainesville FL 32635
 Owners Name James Galloney Phone _____
 911 Address 956 SW Morning Star Glen Ft White FL 32038
 Contractors Name Ken Elwood Phone (352) 538-0822
 Address P.O. Box 357566 Gainesville, FL 32635
 Contractor Email Kenelwood@hotmail.com ***Include to get updates on this job.
 Fee Simple Owner Name & Address James Galloney Harbour Love Drive Ft. Pierce, FL 34944
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address N/A
 Mortgage Lenders Name & Address Capital City Bank 304 E. Tennessee St. Tallahassee, FL 32301
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Duke Energy
 Property ID Number 34-55-16-02752-212 Estimated Construction Cost 250,000

Subdivision Name Ancient Oaks Lot 12 Block _____ Unit _____ Phase _____
 Driving Directions from a Major Road go 1.88 miles on R 47 south, L Morning Star Glen,

Construction of SFD Commercial OR X Residential
 Proposed Use/Occupancy Single Family Residence Number of Existing Dwellings on Property 0
 Is the Building Fire Sprinkled? N If Yes, blueprints included _____ Or Explain _____

Circle Proposed - Culvert Permit or Culvert Waiver or D.O.T. Permit or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 400' Side 140' Side 140' Rear 160'
 Number of Stories 1 Heated Floor Area 2290 Total Floor Area 3110 Acreage 5 ac.
 Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) _____

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

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

JAMES MELWON GALLOWAY James M. Galloway
Print Owners Name Owners Signature

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

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

[Signature]
Contractor's Signature

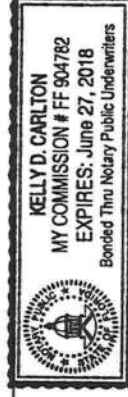
Contractor's License Number CSC1517187
Columbia County
Competency Card Number 1829 ✓

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 18 day of January 2017.

Personally known ✓ or Produced Identification _____

Stacy D. Carter SEAL: _____

State of Florida Notary Signature (For the Contractor)





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

PERMIT NO. 17-0051/N
DATE PAID: 1/15/17
FEE PAID: 310.00
RECEIPT #: 1574694

APPLICATION FOR:

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

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

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3) (m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 12 BLOCK: na SUB: Ancient Oaks S/D PLATTED: _____PROPERTY ID #: 34-58-16-03752-212 ZONING: Res. I/M OR EQUIVALENT: [Y N]

PROPERTY SIZE: 5 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ≤ 2000 GPD ☐ > 2000 GPD
IS SEWER AVAILABLE AS PER 381.0065, FS? ☒ Y ☐ N DISTANCE TO SEWER: _____ FT

PROPERTY ADDRESS: SW Morning Star Glen, Fort White, FL, 32038DIRECTIONS TO PROPERTY: 47 South, TL Morning Star Glen, 8/10ths mile to site onright

BUILDING INFORMATION

☒ RESIDENTIAL ☐ COMMERCIAL

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

1 SF Residential 3 2390

2

3

☒ Floor/Equipment Drains ☒ Other (Specify) _____SIGNATURE: Rocky D FordDATE: 1/23/2017

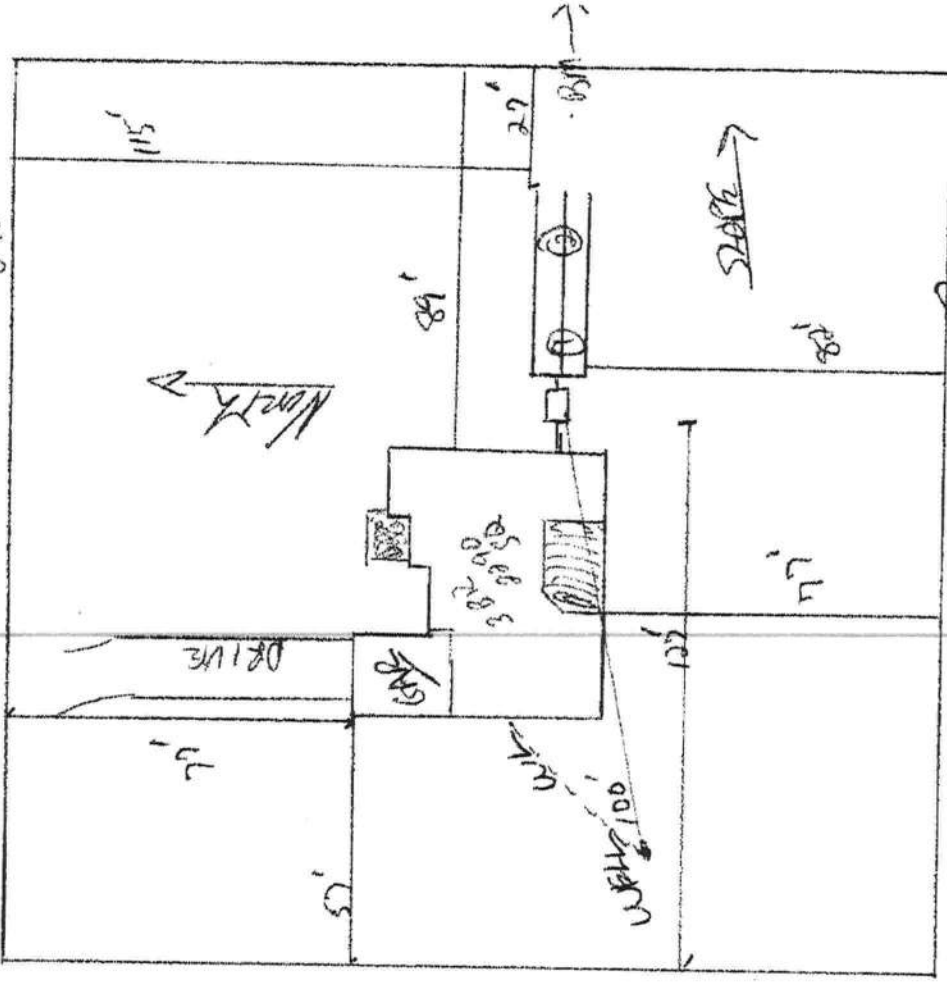
DH 4015, 08/09 (Obsolates previous editions which may not be used)
Incorporated 64E-6.001, FAC

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

Permit Application Number 17-0051

----- Columbus ----- PART II - SITEPLAN ----- 370 -----

Scale: 1 inch = 40 feet.



Notes:

4 of 5 Acres See Attached

Site Plan submitted by: Reedy D 7-D

Plan Approved V

By Karen J. Evans

MASTER CONTRACTOR

Not Approved

Date 1-31-17

Columbus County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC
(Stock Number: 5744-002-4015-6)

[Signature]

Prepared by and return to:

Brent E. Baris
For the Firm
Brent E. Baris, P.A.
P.O. Box 223
High Springs, FL 32655
386-454-0688
File Number: 16-180

Parcel Identification No. **34-5S-16-03752-212**

[Space Above This Line For Recording Data]

Warranty Deed

(STATUTORY FORM - SECTION 689.02, F.S.)

This Indenture made this **3rd** day of **November, 2016** between **Peter J. Piccirilli and Connie J. Piccirilli, husband and wife** whose post office address is **1665 Scott Road, Jacksonville, FL 32259** of the County of **Saint Johns**, State of **Florida**, grantor*, and **James Mellon Galloney, a single man** whose post office address is **2536 Harbour Cove Drive, Hutchinson Island, FL 34949** of the County of **Saint Lucie**, State of **Florida**, grantee*,

Witnesseth, that said grantor, for and in consideration of the sum of **TEN AND NO/100 DOLLARS (\$10.00)** and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Columbia County, Florida**, to-wit:

Lot 12, Ancient Oaks, according to the Plat thereof, recorded in Plat Book 7, Page 78, of the Public Records of Columbia County, Florida.

Subject to taxes for 2017 and subsequent years; covenants, conditions, restrictions, easements, reservations and limitations of record, if any.

and said grantor does hereby fully warrant the title to said land, and will defend the same against lawful claims of all persons whomsoever.

* "Grantor" and "Grantee" are used for singular or plural, as context requires.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Witness Name: Brent Baris
John Caldwell
Witness Name: John Caldwell
Connie J. Piccirilli
Witness Name: Connie J. Piccirilli
John Caldwell
Witness Name: John Caldwell

Peter J. Piccirilli
Peter J. Piccirilli (Seal)

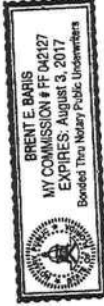
Connie J. Piccirilli
Connie J. Piccirilli (Seal)

State of Florida
County of Alachua

The foregoing instrument was acknowledged before me this 3rd day of November, 2016 by Peter J. Piccirilli and Connie J. Piccirilli, who [] are personally known or [X] have produced drivers' licenses as identification.

[Notary Seal]

Notary Public Brent E. Baris
Printed Name: Brent E. Baris
My Commission Expires: 8/13/17



THIS INSTRUMENT PREPARED BY:

CAPITAL CITY BANK

304 E Tennessee St, Tallahassee, FL 32301

Loan # 89305266700

Tax Folio # R03752-212

NOTICE OF COMMENCEMENT

STATE OF Florida
COUNTY OF Miami-Dade

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the information is provided in this Notice of Commencement.

1. Description of property (legal description of property, and street address if available): *Lot 13, Ancient Oaks, According to the Plat thereof, recorded in Plat Book 7, Pg. 78, of the Public Records of Columbia County, FL.*
2. General description of improvement: *Construction of a house*
3. Owner information:
 - a) Name and address: *James Melion Galloney
2536 Harbour Cove Drive
Ft. Pierce, FL 34944*
 - b) Interest in property: *Fee Simple*
 - c) Name and address of fee simple titleholder (if other than owner):
4. Contractor (name and address): *Elwood Construction, Kenneth Elwood
2727 NW 43rd St. Suite 1A
Gainesville, FL 32606*
5. Surety
 - a) Name and address:
 - b) Amount of bond: \$ _____
6. Lender (name and address): Capital City Bank, 304 E Tennessee St, Tallahassee, FL 32301
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)(7), Florida Statutes (name and address):
8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes (name and address):
9. Expiration date of Notice of Commencement (the expiration date is two years from the date of recording unless a different date is specified):



gmh



COLUMBIA COUNTY

911 ADDRESSING / GIS DEPARTMENT

263 NW Lake City Ave., Lake City, FL 32055

Telephone: (386) 758-1125 x 1 • Fax: (386) 758-1365 • Email: gis@columbiacountyfla.com



Address Assignment and Maintenance Document

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

Date/Time Issued: 1/17/2017 3:04:42 PM

Address: 956 SW MORNING STAR Gln

City: FORT WHITE

State: FL

Zip Code 32038

Parcel ID 03752-212

REMARKS: Address for proposed structure on parcel.

Address Issued By: Signed:/ Ronal N. Croft

Columbia County GIS/911 Addressing Department

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

James
Gallagher

CLYATT WELL DRILLING, INC.

(Established in 1971)

Post Office Box 180

Worthington Springs, Florida 32697

Phone (386)496-2488 *** FAX (386)496-4640

WELL DESCRIPTION

DESCRIPTION DATE
1/17/2017

CUSTOMER NAME AND ADDRESS
Ken Elwood

DESCRIPTION OF WORK
Well Description @Ancient Oaks Lot 12

DESCRIPTION
Feet 4" Well 1 HP Submersible Pump Feet 1-1/4" Drop Pipe Feet 14/3 Submersible Pump Wire 81 Gallon Pressure Tank 4 X 1-1/4 Well Seal Controls and Fittings Sales Tax @ 7%

The above description is provided to give a brief description of the water well to be constructed by Clyatt Well Drilling, Inc.

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 170157 JOB NAME Galloney

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

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

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

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

ELECTRICAL	☒	Print Name <u>Randy Lewis</u>	Signature <u>Randy Lewis</u>	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
CC# <u>985</u>		Company Name: <u>Randy Lewis Electric Inc.</u>	Phone #: <u>352-463-2554</u>	
MECHANICAL/		Print Name _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
A/C	☐	Company Name: _____	Phone #: _____	
CC# _____		License #: _____		
PLUMBING/		Print Name _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
GAS	☐	Company Name: _____	Phone #: _____	
CC# _____		License #: _____		
ROOFING	☐	Print Name _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
CC# _____		Company Name: _____	Phone #: _____	
License #: _____				
SHEET METAL	☐	Print Name _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
CC# _____		Company Name: _____	Phone #: _____	
License #: _____				
FIRE SYSTEM/		Print Name _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SPRINKLER	☐	Company Name: _____	Phone #: _____	
CC# _____		License #: _____		
SOLAR	☐	Print Name _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
CC# _____		Company Name: _____	Phone #: _____	
License #: _____				
STATE	☐	Print Name _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SPECIALTY		Company Name: _____	Phone #: _____	
CC# _____		License #: _____		

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ELECTRICAL ☐	Print Name _____ Company Name: _____ License #: _____ Phone #: _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL A/C ☒ CC# <u>419</u>	Print Name <u>Bertie Heat & Air</u> Company Name: <u>Bertie Heat & Air</u> License #: <u>SAC058522</u> Phone #: <u>352-331-2005</u>	Signature <u>[Signature]</u>	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING GAS ☐ CC# _____	Print Name _____ Company Name: _____ License #: _____ Phone #: _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☐ CC# _____	Print Name _____ Company Name: _____ License #: _____ Phone #: _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC# _____	Print Name _____ Company Name: _____ License #: _____ Phone #: _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM SPRINKLER ☐ CC# _____	Print Name _____ Company Name: _____ License #: _____ Phone #: _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC# _____	Print Name _____ Company Name: _____ License #: _____ Phone #: _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC# _____	Print Name _____ Company Name: _____ License #: _____ Phone #: _____	Signature _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

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ELECTRICAL ☐	Print Name _____ Company Name: _____ License #: _____ Signature _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/A/C ☐	Print Name _____ Company Name: _____ License #: _____ Signature _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/GAS ☒	Print Name <u>Paul Keen Coleman</u> Company Name: <u>Colemans Plumbing Inc</u> License #: <u>CFC1425624</u> Signature <u>Paul Keen Coleman</u> Phone #: <u>352-472-4114</u>	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☐	Print Name _____ Company Name: _____ License #: _____ Signature _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐	Print Name _____ Company Name: _____ License #: _____ Signature _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/SPRINKLER ☐	Print Name _____ Company Name: _____ License #: _____ Signature _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐	Print Name _____ Company Name: _____ License #: _____ Signature _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐	Print Name _____ Company Name: _____ License #: _____ Signature _____ Phone #: _____	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

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

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

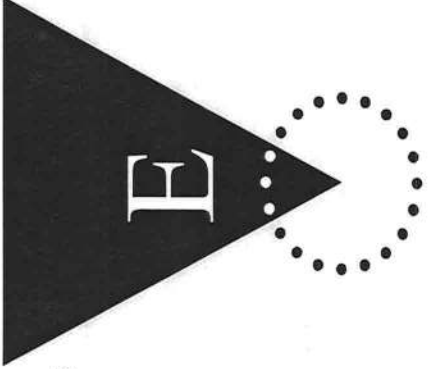
NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

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

ELECTRICAL	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
A/C	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
GAS	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING	Print Name <u>DANA JOHNSON</u> Signature <u>[Signature]</u> Company Name: <u>MAC JOHNSON ROOFING INC.</u> License #: <u>CCC1325497</u> Phone #: <u>352-472-4943</u>	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SPRINKLER	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SPECIALTY	Print Name _____ Signature _____ Company Name: _____ License #: _____ Phone #: _____	Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

Schafer Engineering LLC

14705 Main St. Alachua FL 32615



Prepared for:

ELWOOD CONSTRUCTION
ANCIENT OAKS / LOT 12
COLUMBIA COUNTY, FLORIDA



By:

Schafer Engineering, LLC

386-462-1340

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

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

Roof Sheathing: Type: OSB Size: 7/16" Fastener type nails: 8d / .113 Ring Shank
Interior zone spacing: Interior: 6" Periphery: 4"
Edge and end zone spacing: Interior: 6" Periphery: 4"

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

Stud Type: Spruce Grade: #2 Size: 2 x 4
Interior stud spacing: 16" End stud spacing: 16"

Required Shear Wall Siding: Type: OSB Thickness: 7/16"
74 ft Trans: Fastener 8d/131 Spacing: Int: 8 Edge: 4"
47 ft Long: Fastener 8d/131 Spacing: Int: 8 Edge: 4"

Allowable Unit Shear on Shear Walls: 314 pounds per linear foot
Allowable Unit Shear Transferred from Diaphragm: Trans: 94 Long: 146

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

Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"
Washer: 2" Embedment: 7" Location of first anchor bolt from corner: 8"

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

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

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

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

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

Interior Footings 20" Wide X 10" Deep with 2-#5 rebar continuous

Porch Columns: 8'-4" o.c. max. spacing Column Fasteners: CB66 or equal
6 X 6 X 10' syp #2 pt @ Simpson PC66 \

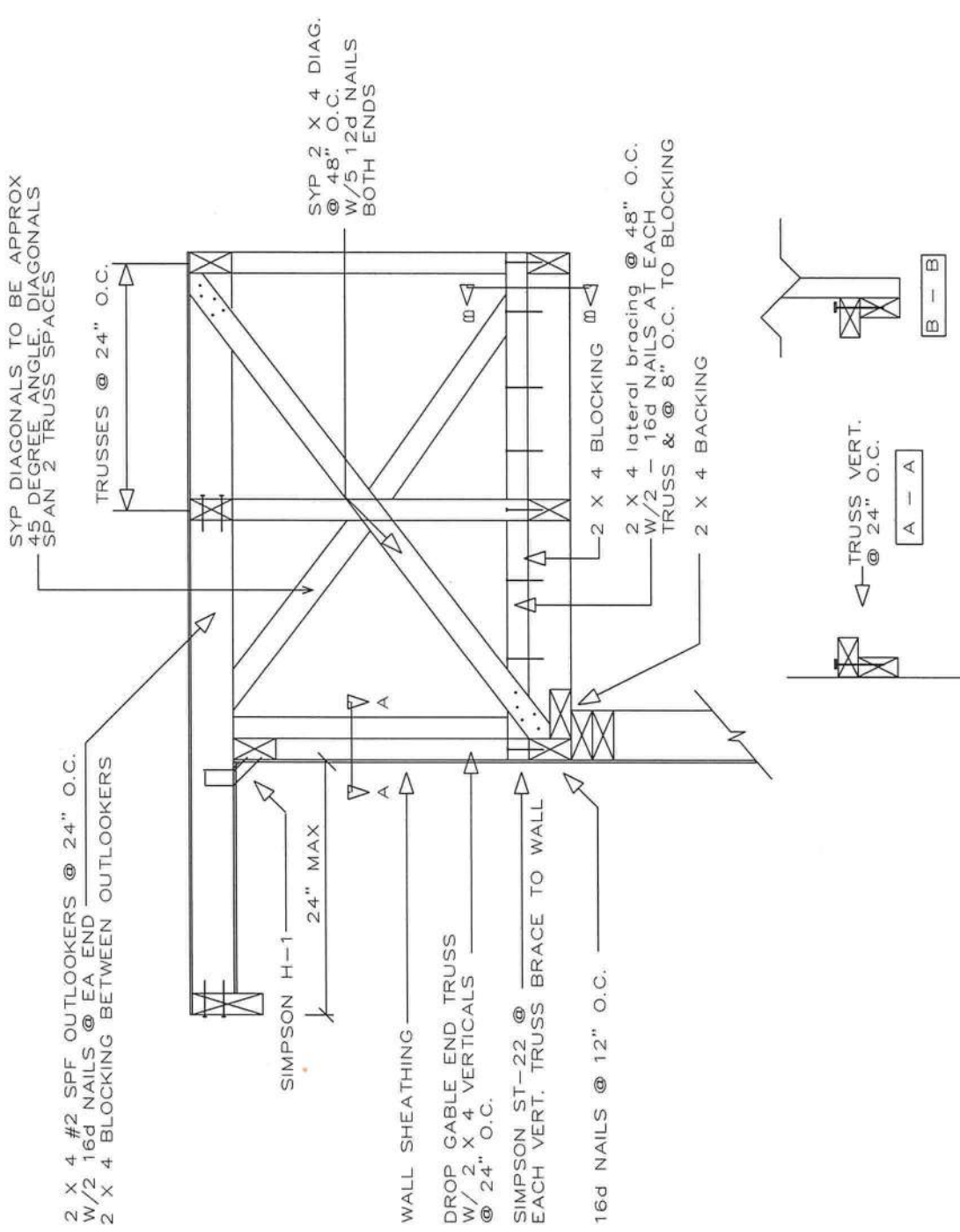
Special Comments: Front entry columns to be 6 X 6 X 14' syp #2 @ 13' O.C.
Install 2 ply 2 x 12 syp #2 with 7/16" osb flitch beam over all doors, windows,
covered porch, and covered lanai.

Notes:

1. Balloon frame all gable ends unless accompanied by gable end detail
2. All walls to be nailed with same nailing pattern as the shear walls.
3. This wind load is not valid without a raised, embossed seal. (NO COPIES).
4. 1500 psf soil bearing pressure minimum.
5. Fiber mesh or WWM may be used in concrete slab. All steel must be grade 40 min. Install standard 10" ACI hook top and bottom.
6. Trusses must be installed and anchored in accordance to the truss engineering.
7. All headers spanning over 12' must be pre-engineered.
8. This is a windload only. Not a structural analysis. Schafer Engineering strongly recommends always having a structural analysis.
9. The foundation is for minimum design use, and may be increased.
10. Wind load is for one use only \ FBC-2014 \ No copies permitted
11. Install anchor bolts at 32" o.c., & Simpson SP1 at bottom plate and Simpson SP2 at top plate or equal for all interior bearing walls.

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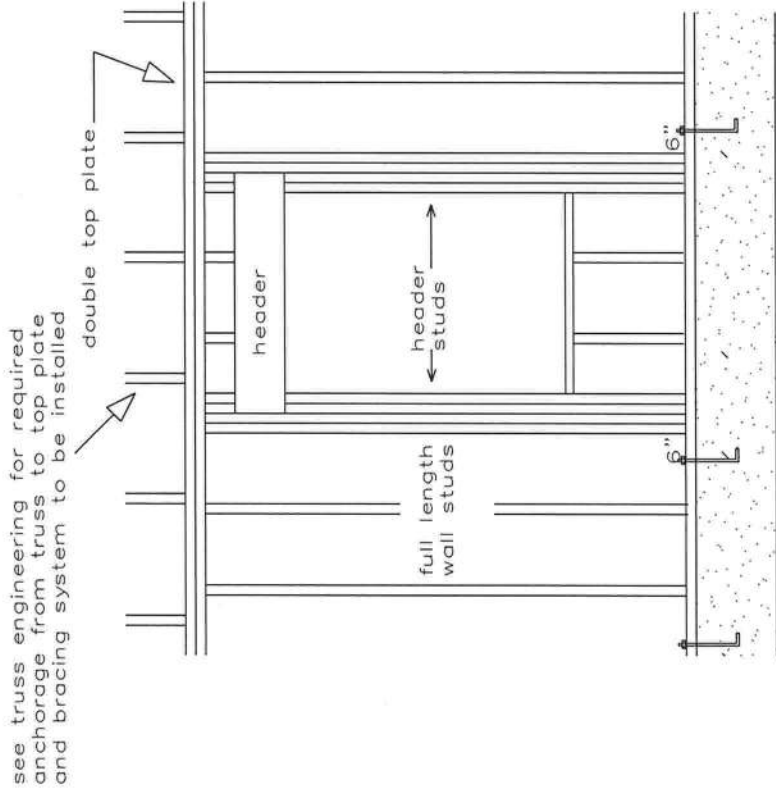
TYPICAL GABLE END BRACING

Handwritten signature and date:
 12-6-17

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

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

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TIE-DOWN TABLES

HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA19	635	H3	320
to 910	LSTA12	795	2-H3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3880	HD5A-3	3130

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

TRUSSES \ GIRDERS			
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs
to 535	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2-TS22	LTT20	1750
to 2570	2-TS22	HD2A	2775
to 3665	3-TS22	HD5A	4010
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	9540

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

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2300

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

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

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	135	mph
Structural Category	II	
Exposure	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	26.6	Deg
Type of Roof	Hipped	
Eave Height (Eht)	10.00	ft
Ridge Height (RHt)	23.00	ft
Mean Roof Height (Ht)	16.50	ft
Width Perp. to Wind (B)	56.00	ft
Width Parallel to Wind (L)	62.50	ft
Damping Ratio (beta)	0.01	

Red values should be changed only through "Main Menu"

Calculated Parameters		
Type of Structure		
Height/Least Horizontal Dim	0.29	
Flexible Structure	No	

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

Gust Factor Category I: Rigid Structures - Simplified Method		
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85
Gust Factor Category II: Rigid Structures - Complete Analysis		
Zm	Zmin	30.00 ft
Izm	$Cc * (33/z)^{0.167}$	0.3048
Lzm	$I^*(zm/33)^{Epsilon}$	309.99 ft
Q	$(1/(1+0.63*((B+Ht)/Lzm)^{0.63}))^{0.5}$	0.8936
Gust2	$0.925*((1+1.7*Izm*3.4*Q)/(1+1.7*3.4*Izm))$	0.8622
Gust Factor Category III: Flexible or Dynamically Sensitive Structures		
Vhref	$V*(5280/3600)$	198.00 ft/s
Vzm	$bm^*(zm/33)^{Am}*Vhref$	87.00 ft/s
NF1	$NatFreq*Lzm/Vzm$	3.56 Hz
Rn	$(7.47*Nf1)/(1+10.302*Nf1)^{1.667}$	0.0627
Nh	$4.6*NatFreq*Ht/Vzm$	0.87
Nb	$4.6*NatFreq*B/Vzm$	2.96
Nd	$15.4*NatFreq*Depth/Vzm$	11.06
Rh	$1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh))))$	0.6041
Rb	$1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb))))$	0.2809
Rd	$1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd))))$	0.0863
RR	$((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^{0.5}$	0.7793
gg	$+(2*LN(3600*n1))^{0.5}+0.577/(2*LN(3600*n1))^{0.5}$	4.19
Gust3	$0.925*((1+1.7*Izm*(3.4^2*Q^2+GG^2*RR^2)^{0.5})/(1+1.7*3.4*Izm))$	1.11

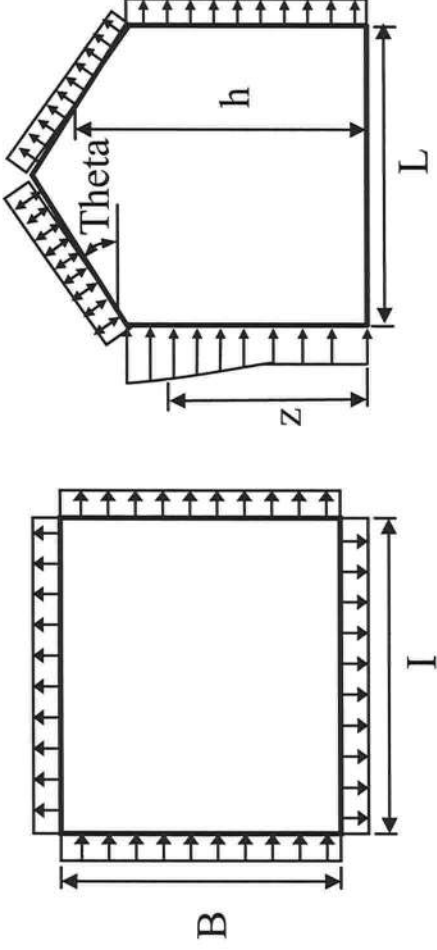
Gust Factor Summary		
Main Wind-force resisting system:		Components and Cladding:
Gust Factor Category:	I	Gust Factor Category: I
Gust Factor (G)	0.86	Gust Factor (G) 0.86

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

Elev. ft	Kz	Kzt	Kd	qz lb/ft ²	Pressure (lb/ft ²) Windward Wall*	
			1.00		+GCpi	-GCpi
23	0.70	1.00	1.00	32.69	17.59	27.51
20	0.70	1.00	1.00	32.69	17.59	27.51
16.5	0.70	1.00	1.00	32.69	17.59	27.51
15	0.70	1.00	1.00	32.69	17.59	27.51

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	$2.01 \cdot (Ht/zg)^{(2/\alpha)}$	0.59	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	$.00256 \cdot (V)^2 \cdot ImpFac \cdot Kh \cdot Kht \cdot Kd$	27.55	psf

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

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

Description	Cp	Pressure (psf) +GCpi -GCpi
Leeward Walls (Wind Dir Parallel to 56 ft wall)	-0.48	-16.29 -6.37
Leeward Walls (Wind Dir Parallel to 62.5 ft wall)	-0.50	-16.84 -6.92
Side Walls	-0.70	-21.59 -11.67
Roof - Normal to Ridge (Theta >= 10)		
Windward - Max Negative	-0.20	-9.80 0.12
Windward - Max Positive	0.29	2.03 11.95
Leeward Normal to Ridge	-0.60	-19.21 -9.30
Overhang Top	-0.20	-4.84 -4.84
Overhang Bottom	0.80	0.69 0.69
Roof - Parallel to Ridge (All Theta)		
Dist from Windward Edge: 0 ft to 8.25 ft	-0.90	-26.34 -16.42
Dist from Windward Edge: 8.25 ft to 16.5 ft	-0.90	-26.34 -16.42
Dist from Windward Edge: 16.5 ft to 33 ft	-0.50	-16.84 -6.92
Dist from Windward Edge: > 33 ft	-0.30	-12.09 -2.17

* Horizontal distance from windward edge

Figure 6-4 - External Pressure Coefficients, GCpf

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

Kh = $2.01 \cdot (Ht/zg)^{1/2} / \alpha$ = 0.59
 Kht = Topographic factor (Fig 6-2) = 1.00
 Qh = $0.00256 \cdot (V)^2 \cdot \text{ImpFac} \cdot Kh \cdot Kht \cdot Kd$ = 27.55

Case A					
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf) Max P (psf)
1	0.55	0.18	-0.18	32.69	12.09 23.85
2	-0.10	0.18	-0.18	32.69	-9.02 2.75
3	-0.45	0.18	-0.18	32.69	-20.49 -8.73
4	-0.39	0.18	-0.18	32.69	-18.64 -6.88
5	0.00	0.18	-0.18	32.69	-5.88 5.88
6	0.00	0.18	-0.18	32.69	-5.88 5.88
1E	0.73	0.18	-0.18	32.69	17.89 29.66
2E	-0.19	0.18	-0.18	32.69	-11.95 -0.18
3E	-0.58	0.18	-0.18	32.69	-24.99 -13.22
4E	-0.53	0.18	-0.18	32.69	-23.35 -11.58
5E	0.00	0.18	-0.18	32.69	-5.88 5.88
6E	0.00	0.18	-0.18	32.69	-5.88 5.88

* p = qh * (GCpf - GCpi)

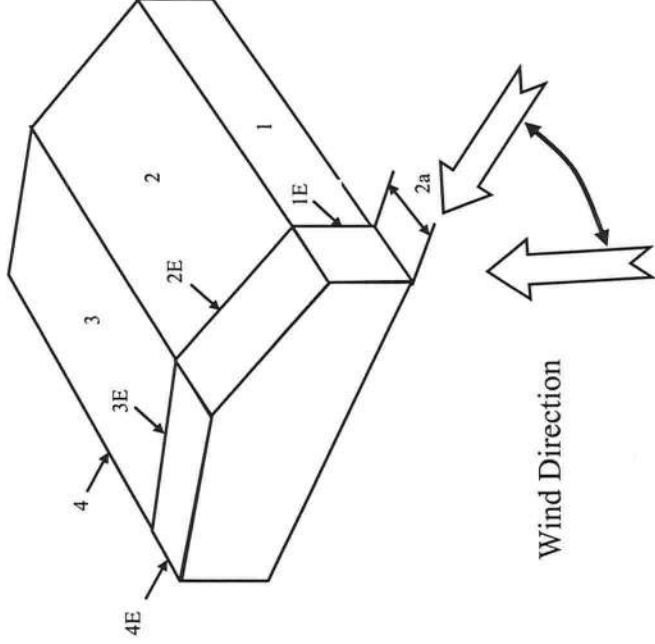


Figure 6-4 - External Pressure Coefficients, GCpf

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

Kh = $2.01 \cdot (Ht/zg)^{1/2} / \alpha$ = 0.59
 Kht = Topographic factor (Fig 6-2) = 1.00
 Qh = $0.00256 \cdot (V)^2 \cdot \text{ImpFac} \cdot Kh \cdot Kht \cdot Kd$ = 27.55

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

* $p = qh * (GCpf - GCpi)$

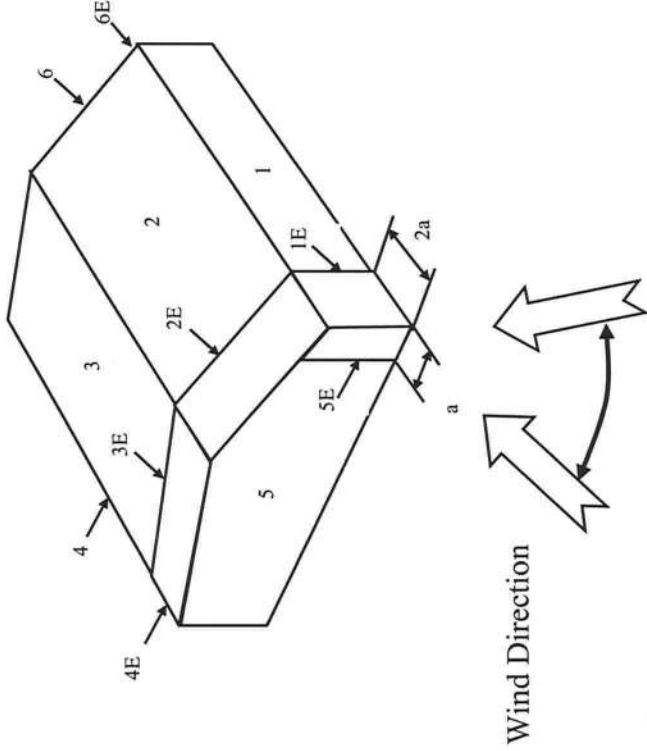
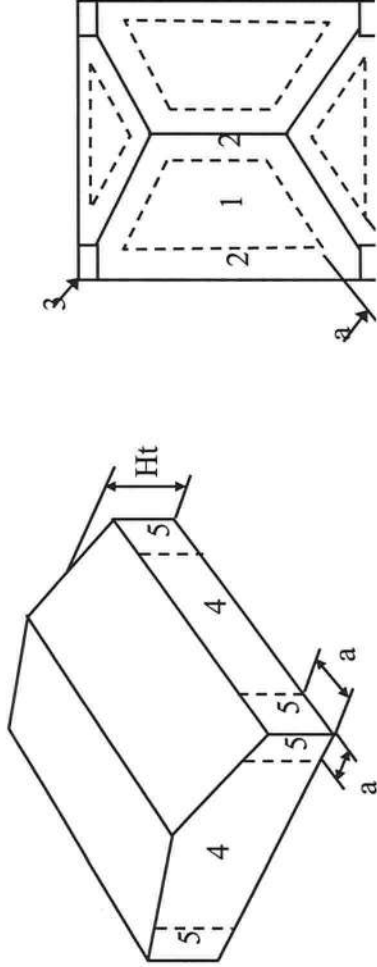


Figure 6-5 - External Pressure Coefficients, GCp
Loads on Components and Cladding for Buildings w/ $H_t \leq 60$ ft





**COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST**

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

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

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

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Circled as Applicable	
			Yes	No N/A
1	Two (2) complete sets of plans containing the following:		X	
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void		X	
3	Condition space (Sq. Ft.)	2290	IIIIIIII	IIIIII
		Total (Sq. Ft.) under roof	3110	IIIIII

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

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

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable	
		IIIIII	IIIIII
		YES	NO N/A
8	Plans or specifications must show compliance with FBCR Chapter 3		
9	Basic wind speed (3-second gust), miles per hour	X	
10	(Wind exposure - if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	X	
11	Wind importance factor and nature of occupancy	X	
12	The applicable internal pressure coefficient, Components and Cladding	X	
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.	X	

Elevations Drawing including:

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

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	X		
21	Raised floor surfaces located more than 30 inches above the floor or grade			X
22	All exterior and interior shear walls indicated	X		
23	Shear wall opening shown (Windows, Doors and Garage doors)	X		
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.	X		
25	Safety glazing of glass where needed			X
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	X		
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails			X
28	Identify accessibility of bathroom (see FBCR SECTION 320)	X		

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.	X		
30	All posts and/or column footing including size and reinforcing	X		
31	Any special support required by soil analysis such as piling.			X
32	Assumed load-bearing valve of soil Pound Per Square Foot			X
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	X		

FBCR 506: CONCRETE SLAB ON GRADE

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

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	X		
----	--	---	--	--

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	X		
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	X		

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

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

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

GENERAL REQUIREMENTS:		Items to Include- Each Box shall be Circled as Applicable	
APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		YES	NO N/A

52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	X	
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	X	
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	X	
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	X	
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCB 2308.9.5	X	
57	Indicate where pressure treated wood will be placed	X	
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	X	
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	X	

FBCR :ROOF SYSTEMS:

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

FBCR 802:Conventional Roof Framing Layout

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

FBCR 803 ROOF SHEATHING

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

ROOF ASSEMBLIES FRC Chapter 9

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

FBCR Energy Conservation R.401

Residential construction shall comply with this code by using the following compliance methods in the Residential buildings compliance methods. **Two of the required forms are to be submitted, R 402-2014 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form R 402-2014, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.**

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable	
		YES	NO N/A

73	Show the insulation R value for the following areas of the structure	X	
74	Attic space	X	
75	Exterior wall cavity	X	
76	Crawl space		X

HVAC information

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

Plumbing Fixture layout shown

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

Private Potable Water

82	Pump motor horse power	X	
83	Reservoir pressure tank gallon capacity <i>1 hr 60 gallon</i>	X	
84	Rating of cycle stop valve if used <i>yes</i>	X	<i>#2</i>

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	X	
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	X	
87	Show the location of smoke detectors & Carbon monoxide detectors	X	
88	Show service panel, sub-panel, location(s) and total ampere ratings	X	
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	X	
90	Appliances and HVAC equipment and disconnects	X	
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter , Protection device. NEC 210.12A	X	

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

YES NO N/A

92	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	X	
93	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	X	
94	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058		X
95	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031		X
96	Toilet facilities shall be provided for all construction sites	X	
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.		X
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		X
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.		X
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00		X
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 installation 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.		X
102	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	X	

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

Notice Of Commencement

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

Section R101.2.1 of the Florida Building Code Residential:

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

Section 105 of the Florida Building Code defines the:

Time limitation of application.

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

Single-family residential dwelling.

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

Permit intent.

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

If work has commenced.

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

New Permit.

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

Work Shall Be:

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

The Fee:

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

Notification:

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

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Plastpro	Series N Fiberglass Door	FL # 15220.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI Windows & Doors Gratz, PA.	Series 3540	FL # 17676.7
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	James Hardi Building Products	Cemeplank	FL # 13192.1
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	IKO	Cambridge Series	FL # 7006.1
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

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

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

 1/16/17

Contractor OR Agent Signature

Date

NOTES:



Load Short Form Entire House

Bertie Heating and Air Conditioning

Job:
Date: Nov 28, 2016
By: Lonny Gonzalez

1730 NE 23rd Ave, Gainesville, FL 32608 Phone: (352)331-2005 Email: Lonny@bertieair.com Web: BertieAir.com License: CACO58522

Project Information

For: Galloney, Elwood Construction
2727 NW 42nd St #1A, Gainesville, FL 32606
Phone: (352)538-0822
Email: Kenelwood@hotmail.com

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92		
Inside db (°F)	70	75		
Design TD (°F)	37	17		
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	47		
			Method	Simplified
			Construction quality	Semi-tight
			Fireplaces	1 (Tight)



HEATING EQUIPMENT

Make Trane
Trade TRANE
Model 4TWR4036D1
AHRI ref 7419657

Efficiency 8.2 HSPF

Heating input 34000 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 1133 cfm
Air flow factor 0.030 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat
Capacity balance point = 36 °F

COOLING EQUIPMENT

Make Trane
Trade TRANE
Cond 4TWR4036D1
Coil TEM4A0C36S41++TDR
AHRI ref 7419657

Efficiency 11.5 EER, 14 SEER
Sensible cooling 23800 Btuh
Latent cooling 10200 Btuh
Total cooling 34000 Btuh
Actual air flow 1133 cfm
Air flow factor 0.043 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.87

Backup:

Input = 11 kW, Output = 37442 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom 2	244	4239	1949	128	84
Breakfast Area	163	3369	1472	102	63
Bath 2	55	886	842	27	36
Bedroom 3	138	2356	2098	71	90
Hallway	78	0	0	0	0
Laundry	45	800	1228	24	53
Kitchen	148	336	1883	10	81
Dining	160	2713	1279	82	55
Great Room	386	6169	5739	187	247
Foyer	110	2154	982	65	42
Study	167	4326	2083	131	90
Toilet	22	42	32	1	1
Master Bath	126	1861	1559	56	67
Master Bedroom	296	7385	4822	223	208

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



wrightsoft

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Page 1

WIC	44	82	63	2	3
WIC 2	30	726	251	22	11
Entire House	2211	37442	26279	1133	1133
Other equip loads		0	0		
Equip. @ 0.97 RSM			25465		
Latent cooling			3857		
TOTALS	2211	37442	29322	1133	1133

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



Right-Suite® Universal 2017 17.0.10 RSU25038
 ...es\Contractors\Ken Elwood\Galloney\Galloney.rup Calc = MJ8 Front Door faces: N



Project Summary Entire House

Bertie Heating and Air Conditioning

Job: Nov 28, 2016
Date: Nov 28, 2016
By: Lonny Gonzalez

1730 NE 23rd Ave, Gainesville, FL 32608 Phone: (352)331-2005 Email: Lonny@bertieair.com Web: BertieAir.com License: CACO58522

Project Information

For: Galloney, Elwood Construction
2727 NW 42nd St #1A, Gainesville, FL 32606
Phone: (352)538-0822
Email: Kenelwood@hotmail.com

Notes:

Design Information

Weather: Gainesville Rgnl, FL, US

Winter Design Conditions

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

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 17 °F
Daily range M
Relative humidity 50 %
Moisture difference 47 gr/lb

Heating Summary

Structure 30541 Btuh
Ducts 6901 Btuh
Central vent (0 cfm) 0 Btuh
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 37442 Btuh

Infiltration

Method Construction quality
Fireplaces Simplified
Semi-tight
1 (Tight)

Heating 2211
23035
0.22
84
Area (ft²)
Volume (ft³)
Air changes/hour
Equiv. AVF (cfm)

Cooling 2211
23035
0.11
42

Sensible Cooling Equipment Load Sizing

Structure 18600 Btuh
Ducts 7679 Btuh
Central vent (0 cfm) 0 Btuh
Blower 0 Btuh
Use manufacturer's data
Rate/swing multiplier 0.97
Equipment sensible load 25465 Btuh

Latent Cooling Equipment Load Sizing

Structure 2339 Btuh
Ducts 1518 Btuh
Central vent (0 cfm) 0 Btuh
Equipment latent load 3857 Btuh
Equipment total load 29322 Btuh
Req. total capacity at 0.70 SHR 3.0 ton

Heating Equipment Summary

Make Trane
Trade TRANE
Model 4TWR4036D1
AHRI ref 7419657

Efficiency 8.2 HSPF
Heating input 34000 Btuh @ 47°F
Heating output 27 °F
Temperature rise 1133 cfm
Actual air flow 0.030 cfm/Btuh
Air flow factor 0.50 in H2O
Static pressure
Space thermostat
Capacity balance point = 36 °F

Backup:
Input = 11 kW, Output = 37442 Btuh, 100 AFUE

Cooling Equipment Summary

Make Trane
Trade TRANE
Cond 4TWR4036D1
Coil TEM4A0C36S41++TDR
AHRI ref 7419657

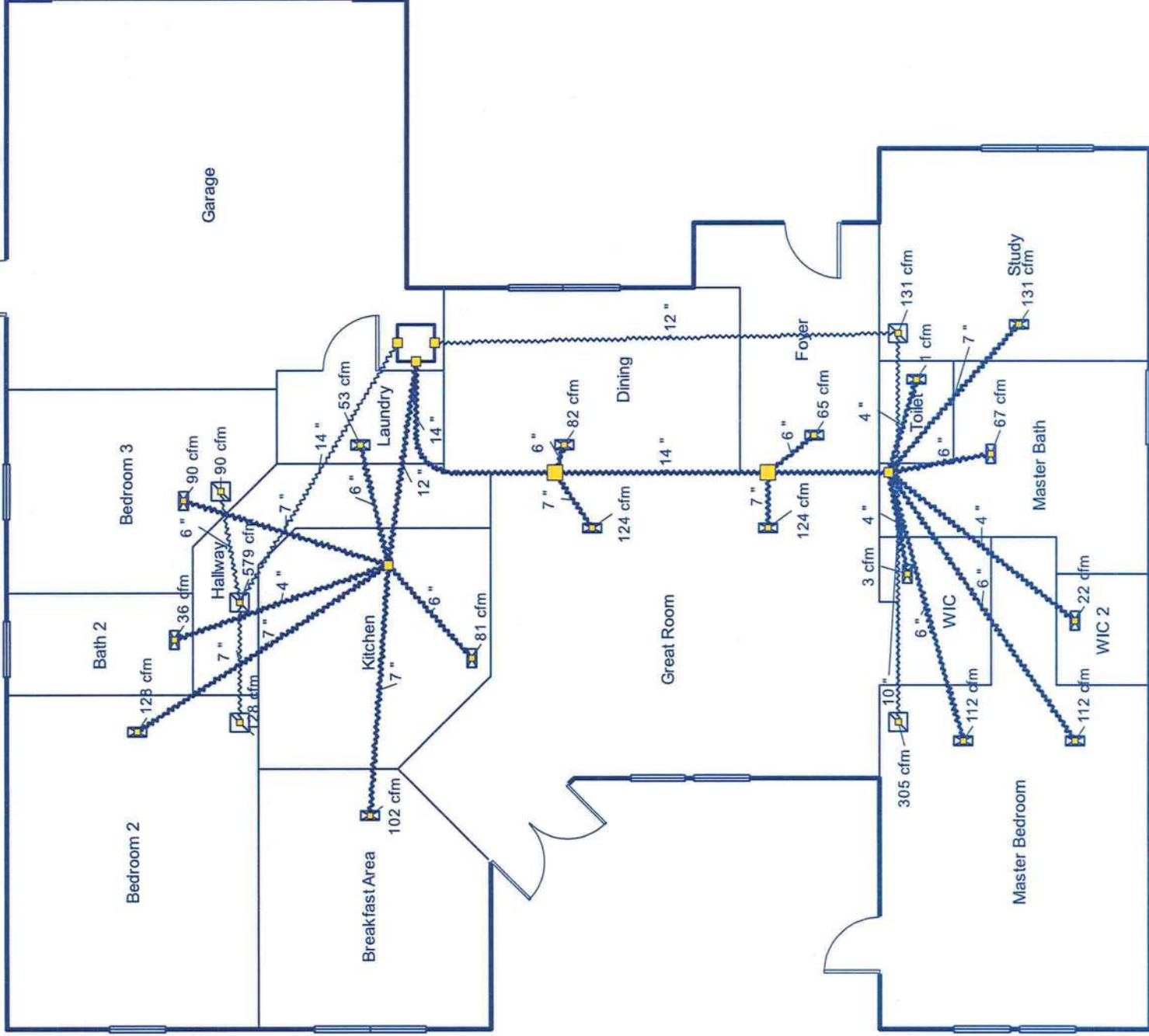
Efficiency 11.5 EER, 14 SEER
Sensible cooling 23800 Btuh
Latent cooling 10200 Btuh
Total cooling 34000 Btuh
Actual air flow 1133 cfm
Air flow factor 0.043 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.87

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





Sheet 1



Job #:
Performed by Lonny Gonzalez for:

Galloney
 2727 NW 42nd St #1A
 Gainesville, FL 32606
 Phone: (352)538-0822
 Kenelwood@hotmail.com

Bertie Heating and Air Conditioning

1730 NE 23rd Ave
 Gainesville, FL 32608
 Phone: (352)331-2005
 BertieAir.com Lonny@bertieair.com

Scale: 1 : 93

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Duct System Summary Entire House

Bertie Heating and Air Conditioning

Job: Nov 28, 2016
Date: Nov 28, 2016
By: Lonny Gonzalez

1730 NE 23rd Ave, Gainesville, FL 32608 Phone: (352)331-2005 Email: Lonny@bertieair.com Web: BertieAir.com License: CACO58522

Project Information

For: Galloney, Elwood Construction
2727 NW 42nd St #1A, Gainesville, FL 32606
Phone: (352)538-0822
Email: Kenelwood@hotmail.com

External static pressure	Heating	0.50 in H2O	Cooling	0.50 in H2O
Pressure losses	0.22 in H2O		0.22 in H2O	
Available static pressure	0.28 in H2O		0.28 in H2O	
Supply / return available pressure	0.159 / 0.121 in H2O		0.159 / 0.121 in H2O	
Lowest friction rate	0.076 in/100ft		0.076 in/100ft	
Actual air flow	1133 cfm		1133 cfm	
Total effective length (TEL)	369 ft			

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath 2	c 842	27	36	0.115	4.0	0x0	VIFx	23.3	115.0	st2
Bedroom 2	h 4239	128	84	0.111	7.0	0x0	VIFx	27.3	115.0	st2
Bedroom 3	c 2098	71	90	0.115	7.0	0x0	VIFx	22.6	115.0	st2
Breakfast Area	h 3369	102	63	0.114	7.0	0x0	VIFx	24.6	115.0	st2
Dining	h 2713	82	55	0.117	6.0	0x0	VIFx	15.1	120.0	st1
Foyer	h 2154	65	42	0.094	6.0	0x0	VIFx	28.2	140.0	st3
Great Room	c 2869	93	124	0.116	7.0	0x0	VIFx	17.1	120.0	st1
Great Room-A	c 2869	93	124	0.094	7.0	0x0	VIFx	28.0	140.0	st3
Kitchen	c 1883	10	81	0.119	6.0	0x0	VIFx	17.8	115.0	st2
Laundry	c 1228	24	53	0.119	6.0	0x0	VIFx	17.8	115.0	st2
Master Bath	c 1559	56	67	0.080	6.0	0x0	VIFx	37.1	160.0	st3
Master Bedroom	h 3692	112	104	0.077	6.0	0x0	VIFx	46.5	160.0	st3
Master Bedroom-A	h 3692	112	104	0.076	6.0	0x0	VIFx	49.1	160.0	st3
Study	h 4326	131	90	0.078	7.0	0x0	VIFx	42.1	160.0	st3
Toilet	c 32	1	1	0.081	4.0	0x0	VIFx	36.7	160.0	st3
WIC	c 63	2	3	0.080	4.0	0x0	VIFx	37.1	160.0	st3
WIC 2	h 726	22	11	0.078	4.0	0x0	VIFx	44.3	160.0	st3

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	595	546	0.076	556	14.0	0 x 0	VinIFlx	st1
st1	Peak AVF	770	725	0.076	721	14.0	0 x 0	VinIFlx	
st2	Peak AVF	363	408	0.111	520	12.0	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	128	84	82.9	0.146	480	7.0	0x 0		VIFx	rt1
rb2	0x0	71	90	82.5	0.147	461	6.0	0x 0		VIFx	rt1
rb3	0x0	305	290	106.0	0.114	560	10.0	0x 0		VIFx	rt2
rb5	0x0	497	579	66.4	0.183	541	14.0	0x 0		VIFx	rt1
rb4	0x0	131	90	160.0	0.076	375	8.0	0x 0		VIFx	rt2

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	Peak AVF	697	753	0.146	705	14.0	0 x 0	VinIFlx	
rt2	Peak AVF	436	380	0.076	556	12.0	0 x 0	VinIFlx	



plastipro

5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

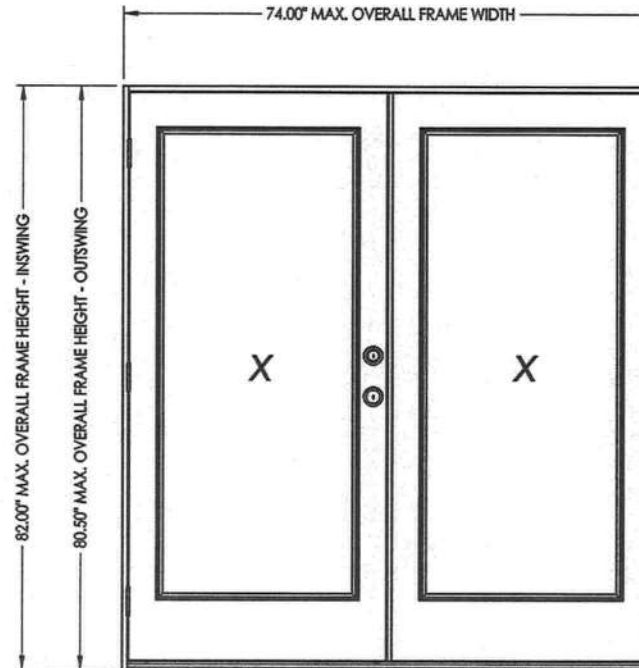
**Smooth / Wood Grain / White Wood Grain
Rustic / Mahogany
Series N Fiberglass Door
INSWING / OUTSWING
"NON-IMPACT"**

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 2010 Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with Section 1609.1.2 of the FBC.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevation, design pressures, & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring - 2X buck masonry construction
6	Frame anchoring - 1X buck masonry construction
7	Endura astragal details
8	Bill of materials, glazing detail & components



SWING	OVERALL FRAME DIMENSION	DOOR D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
INSWING	74.00" x 82.00"	21.00" x 63.00"	G1	+47.0	-47.0
OUTSWING	74.00" x 80.50"	21.00" x 63.00"		+50.0	-50.0

Documents Prepared By:
R.W.
BUILDING CONSULTANTS, INC.
P.O. Box 230 Vero Beach, FL 33595
Phone No: 813.859.9187
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
67-02 2-17-12
Lyndon F. Schmidt, P.E. No. 43409

PRODUCT: **PLASTIPRO INC. FIBERGLASS DOOR**
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO	DATE	BY	REVISIONS

DATE: 02/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15213.17
SHEET 1 OF 8

Technical drawing of a window frame cross-section showing interior and exterior views. The interior view on the left shows a frame with a gasket (G1) and a drainage channel (43). The exterior view on the right shows a frame with a gasket (55) and a drainage channel (43). Various components are labeled with numbers: 44, 47, 41, 46, 43, 55, and G1. The drawing is labeled 'INTERIOR' and 'EXTERIOR'.

42 **TOP RAIL**
Cellular PVC

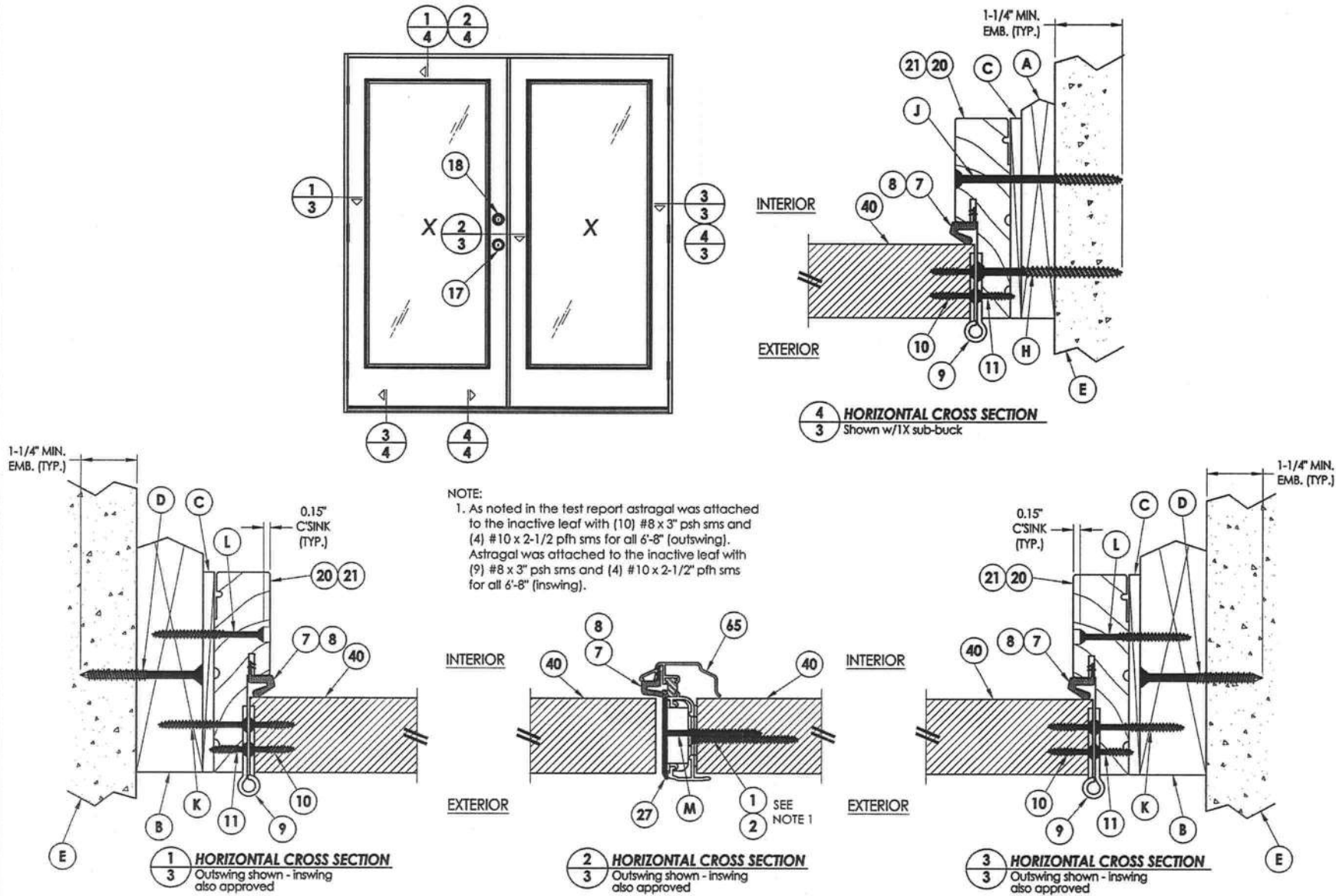
43 **HINGE & LATCH STILE**
Cellular PVC

44 **REINFORCEMENT WOOD**
For lock

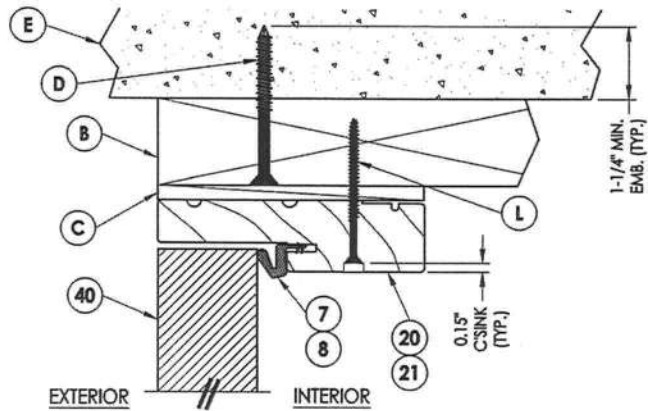
45 **BOTTOM RAIL**
Cellular PVC

47 **LATCH & HINGE STILE**
Wood reinforcement

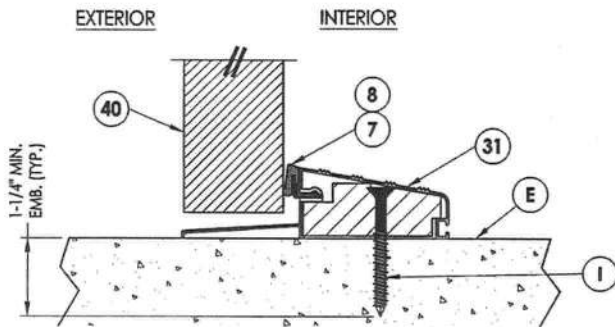
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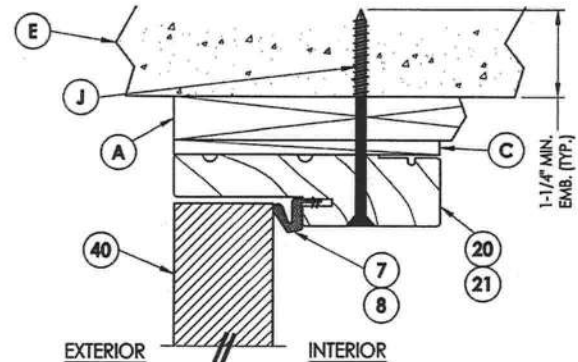
Documents Prepared By:		BUILDING CONSULTANTS, INC.	
		P.O. Box 230 Valrico FL 33595	
		Phone No.: 813.855.9197	
		Florida Board of Professional Engineers	
		Certificate Of Authorization No. 9813	
		Lynden F. Schmidt, P.E. No. 43409	
PRODUCT:		PLASTPRO INC.	
		FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
DATE:	02/16/12	NO.	BY
SCALE:	N.T.S.	DATE	REVISIONS
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	FL-15213.17		
SHEET	3	OF	8



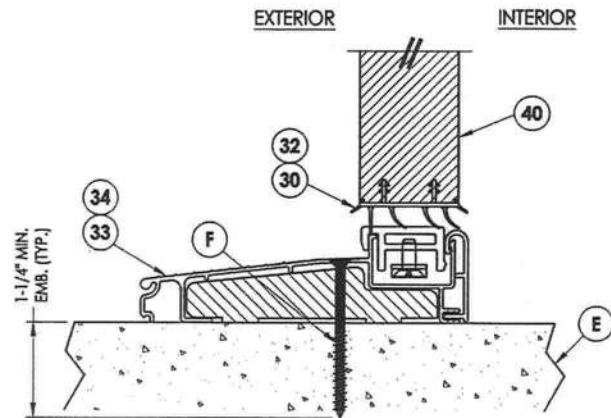
1 VERTICAL CROSS SECTION
4 Outswing shown - inswing also approved



3 VERTICAL CROSS SECTION
4 Outswing configuration

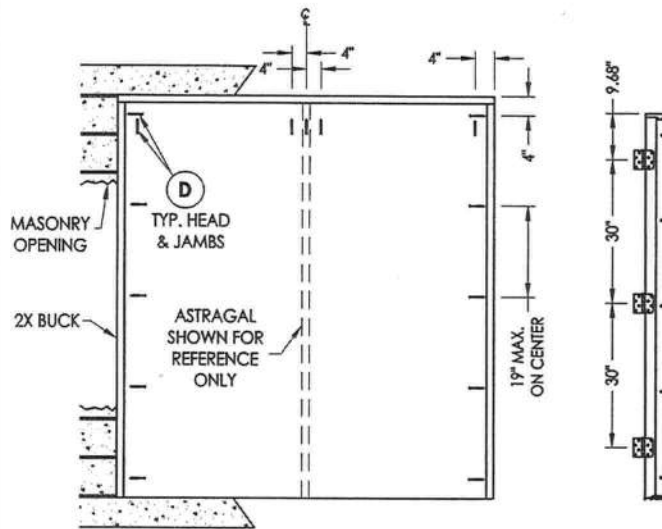
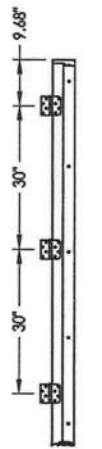
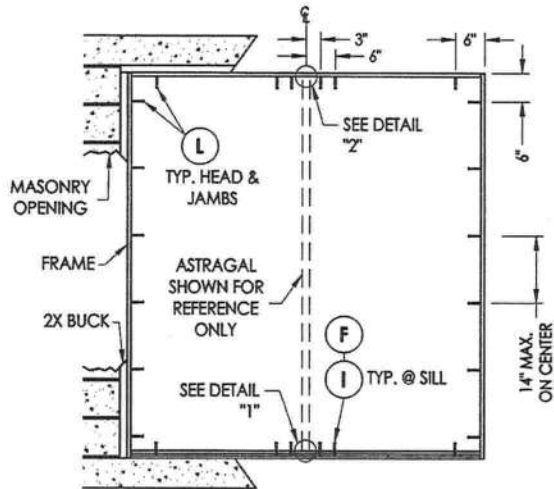
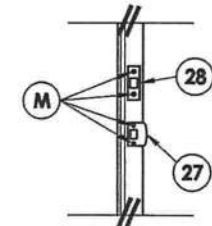
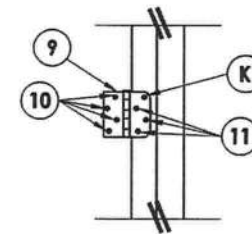
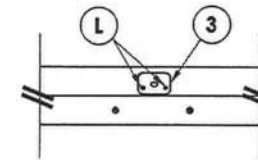
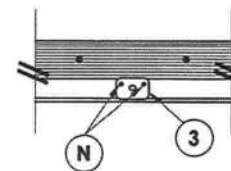
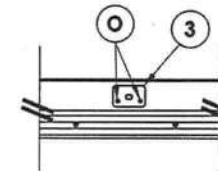


2 VERTICAL CROSS SECTION
4 Shown w/1X sub-buck



4 VERTICAL CROSS SECTION
4 Inswing configuration

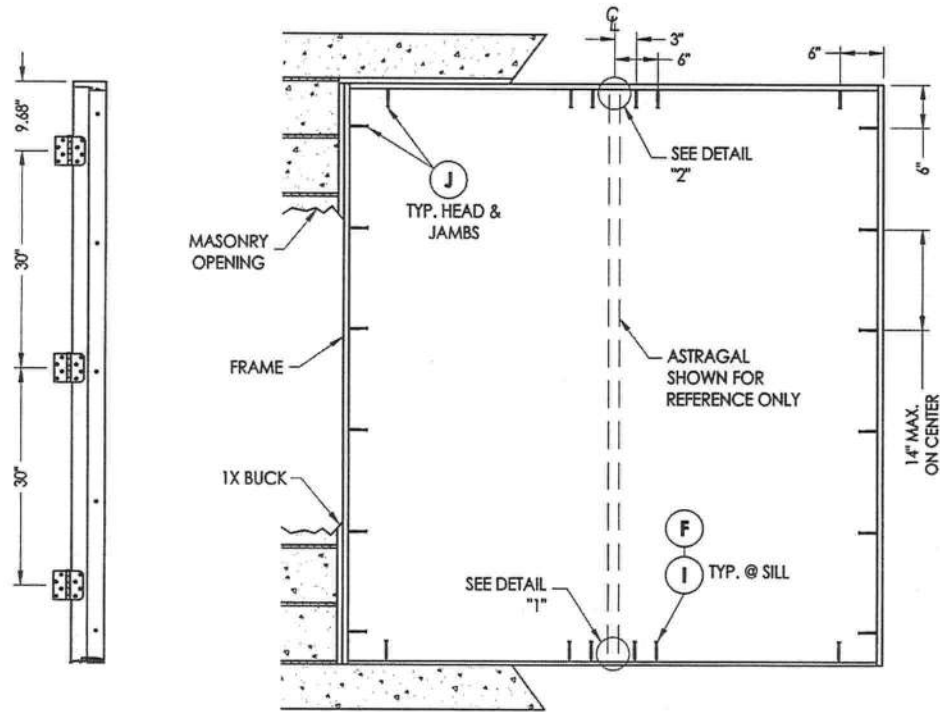
Documents Prepared By:		BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9187 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 43409	
PRODUCT:		PLASTPRO INC. FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.		DATE	
BY		REVISIONS	
DATE: 02/16/12		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-15213.17		SHEET 4 OF 8	
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**BUCK ANCHORING****HINGE JAMB****FRAME ANCHORING**
Masonry 2X buck construction**ASTRAGAL STRIKE JAMB****LATCH & DEADBOLT DETAIL****HINGE DETAIL****DETAIL 2****DETAIL 1**
Inswing configuration**DETAIL 1**
Outswing configuration**CONCRETE ANCHOR NOTES:**

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimensions are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	1/4"	1-1/4"	2-1/2"	3"
ELCO	1/4"	1-1/4"	1"	4"
ITW	3/16"	1-1/4"	2-5/8"	2-1/4"

Documents Prepared By:		RW BUILDING CONSULTANTS, INC. P.O. Box 230 Vero Beach, FL 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certificate of Authorization No. 2813 Lyndon F. Schmidt, P.E. No. 43409	
PRODUCT:		PLASTPRO, INC. FIBERGLASS DOOR PART OR ASSEMBLY: BUCK & FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION	
NO.		DATE	
BY		REVISIONS	
DATE: 9/4/08		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-15213.17		SHEET 5 of 8	



HINGE JAMB

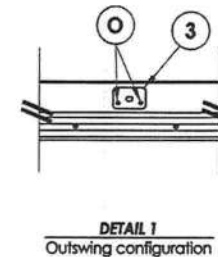
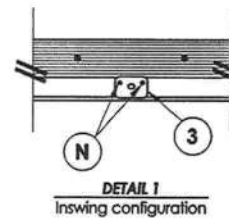
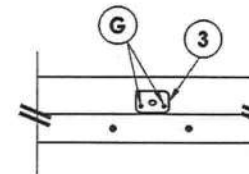
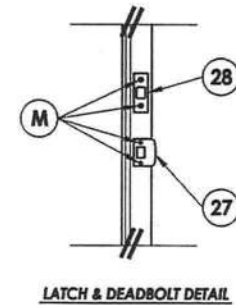
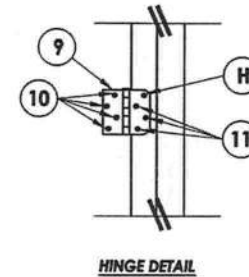
FRAME ANCHORING
Masonry 1X buck construction

ASTRAGAL STRIKE JAMB

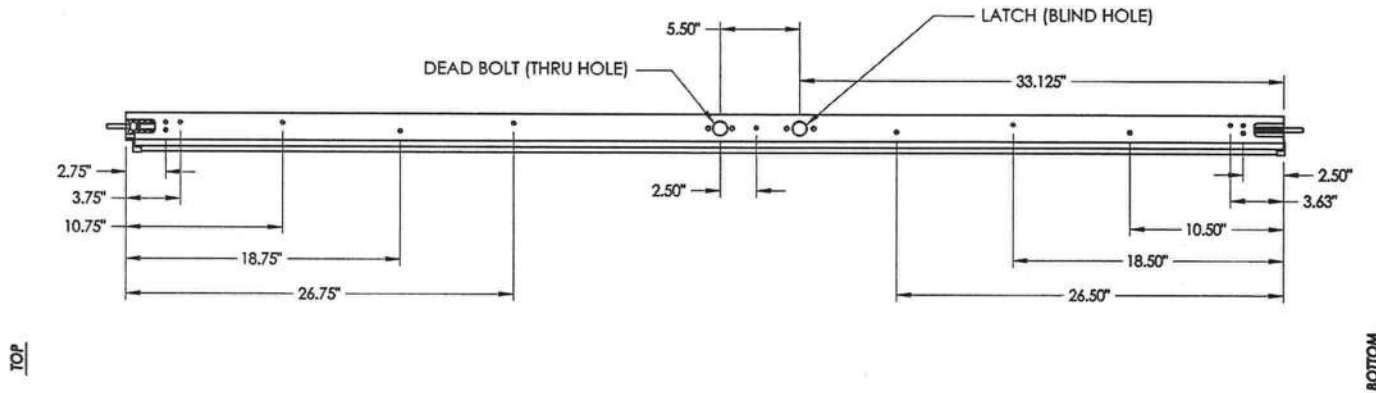
CONCRETE ANCHOR NOTES:

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
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ITW	3/16"	1-1/4"	2-5/8"	2-1/4"

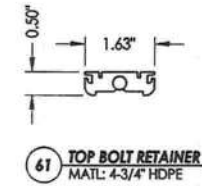
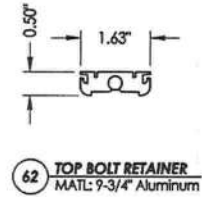
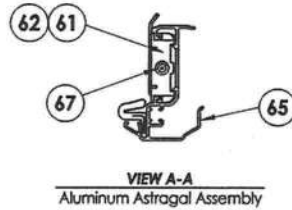
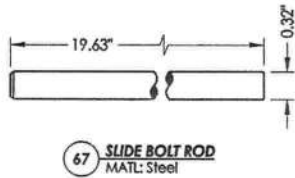


Documents Prepared By:		RW BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.8197 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 43409	
PRODUCT:		PLASTIPRO INC. FIBERGLASS DOOR PART OR ASSEMBLY:	
BY		FRAME ANCHORING 1X BUCK MASONRY CONSTRUCTION	
NO.		DATE	
REVISIONS			
DATE: 9/4/08			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15213.17			
SHEET 6 OF 8			



6'8" ALUMINUM ASTRAGAL ASSEMBLY
By Endura Product

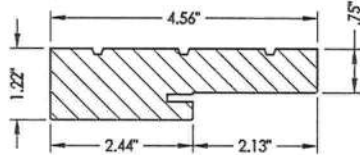
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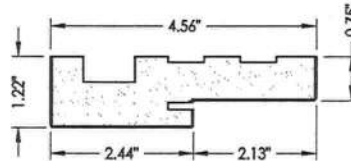
Documents Prepared By: RW BUILDING CONSULTANTS, INC. P.O. Box 230 Venice, FL 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certificate Of Authorization No. 2813 Lyndon F. Schmidt, P.E. No. 43409 <i>FL 21712</i>			
PRODUCT: PLASTPRO INC. FIBERGLASS DOOR PART OR ASSEMBLY: ENDURA ASTRAGAL DETAILS		BY NO. DATE REVISIONS	
DATE: 9/4/08 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-15213.17 SHEET 7 of 8			

BILL OF MATERIALS

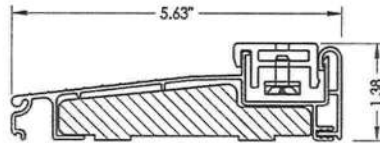
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD	20	FINGER JOINTED PINE FRAME, HEAD & HINGE JAMBS	WOOD
B	2X BUCK SG >= 0.55	WOOD	21	POLYFIBER JAMB	COMP. / VINYL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	STEEL
E	MASONRY - 3,192 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	30	WEATHER-STOP 3647 HOLM INDUSTRIES	VINYL
F	1/4" X 2-3/4" PFH ITW CONCRETE SCREW	STEEL	31	OUTSWING BUMP THRESHOLD	ALUM./ WOOD
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL	32	VINYL DOOR BOTTOM SWEEP #3628 BY HOLM IND.	PVC
H	1/4" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL	33	INSWING ADJUSTABLE THRESHOLD BY ENDURA	ALUM. / WOOD
I	1/4" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL	34	INSWING ADJUSTABLE ALUMINUM THRESHOLD BY DLP	ALUM. / WOOD
J	1/4" X 3-3/4" PFH ITW CONCRETE SCREW	STEEL	40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
K	#9X 2-1/2" PFH WOOD SCREW	STEEL	41	DOOR SKIN (MIN. 0.075" THICK)	FIBERGLASS
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL	42	TOP RAIL	CELLULAR PVC
M	#9 X 2-1/4" PFH WOOD SCREW	STEEL	43	LATCH & HINGE STILE	CELLULAR PVC
N	3/16" X 3-1/2" PFH ITW CONCRETE SCREW	STEEL	44	LOCK REINFORCEMENT	WOOD
O	3/16" X 1-1/2" PFH ITW CONCRETE SCREW	STEEL	45	BOTTOM RAIL	CELLULAR PVC
1	#10 X 2-1/2" PFH SMS	STEEL	46	POLYURETHANE FOAM BY NAN YA	POLYURETHANE
2	#8 X 3" PSH SMS	STEEL	47	CONTINUOUS LATCH & HINGE STILE REINFORCEMENT	WOOD
3	FLUSH BOLT STRIKE PLATE	STEEL	49	GLAZING COMPOUND DOW 995	SILICONE
7	Q-LON 650 WEATHER STRIP SCHLEGEL	FOAM	55	LIP LITE ODL/WESTERN REFLECTIONS HP	POLYPROPYLENE
8	COMPRESSION WEATHER STRIP Q-LON 650 BY SCHLEGEL	FOAM	56	GLAZING SPACER	ALUM.
9	4" X 4" BUTT HINGE	STEEL	57	#8 x 1-1/2" PFH LITE FRAME SCREW	STEEL
10	#9 X 1" PFH WOOD SCREW	STEEL	61	4-3/4" LENGTH TOP BOLT RETAINER	HDPE
11	#9 X 3/4" PFH WOOD SCREW	STEEL	62	9-8/4" LENGTH TOP BOLT RETAINER	ALUMINUM
17	KWIKSET KEYED ENTRY - SIGNATURE SERIES	STEEL	65	ASTRAGAL BY ENDURA PRODUCTS	ALUMINUM
18	KWIKSET DEADBOLT - SIGNATURE SERIES (780)	STEEL	67	SLIDE BOLT ROD	STEEL



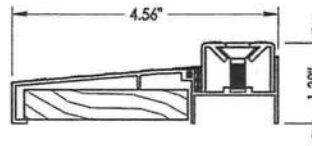
20 HEAD & SIDE Jamb



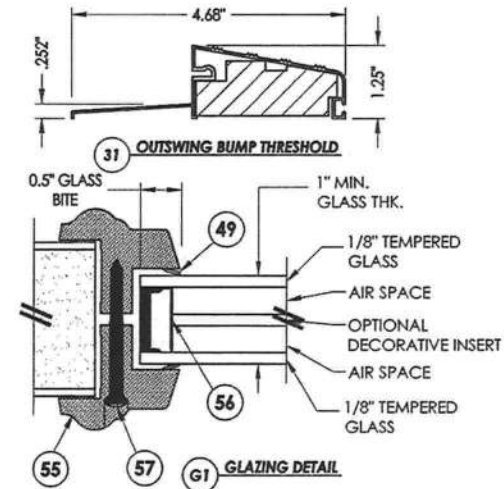
21 HEAD & SIDE Poly fiber jamb



33 ADJUSTABLE INSWING THRESHOLD



34 ADJUSTABLE INSWING THRESHOLD



G1 GLAZING DETAIL

Documents Prepared By:		BUILDING CONSULTANTS, INC. P.O. Box 230 Vero Beach, FL 33595 Phone No. 813.859.9197	
PRODUCT:		PLASTPRO INC. FIBERGLASS DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS	
DATE:	9/4/08	NO. DATE	
SCALE:	N.T.S.	BY	
DWG. BY:	JK	REVISIONS	
CHK. BY:	LFS		
DRAWING NO.:	FL-15213.17		
SHEET	8 OF 8		



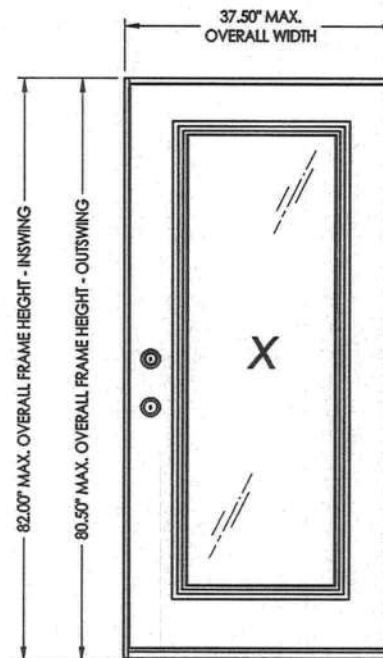
5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

**Smooth / Wood Grain / White Wood Grain
Rustic / Mahogany
Series N Fiberglass Door
INSWING / OUTSWING
"NON-IMPACT"**

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 2010 Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with Section 1609.1.2 of the FBC.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring - 2X buck masonry construction
6	Frame anchoring - 1X buck masonry construction
7	Bill of Materials, glazing detail & components



SWING	MAX. FRAME DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
INSWING	37.50" x 82.00"	G1	+47.0	-50.0
OUTSWING	37.50" x 80.50"		+50.0	-50.0

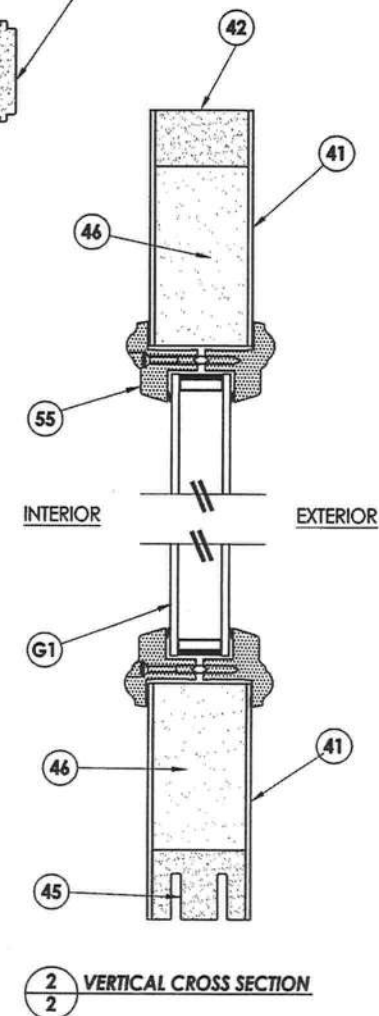
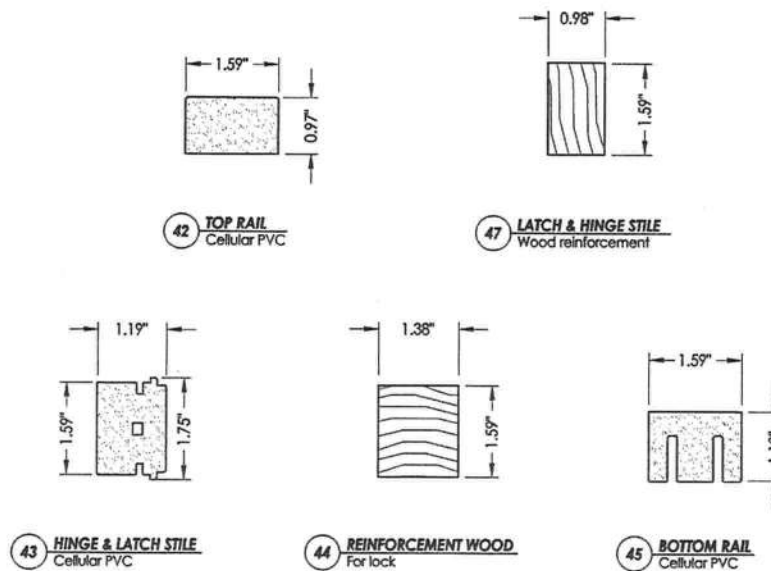
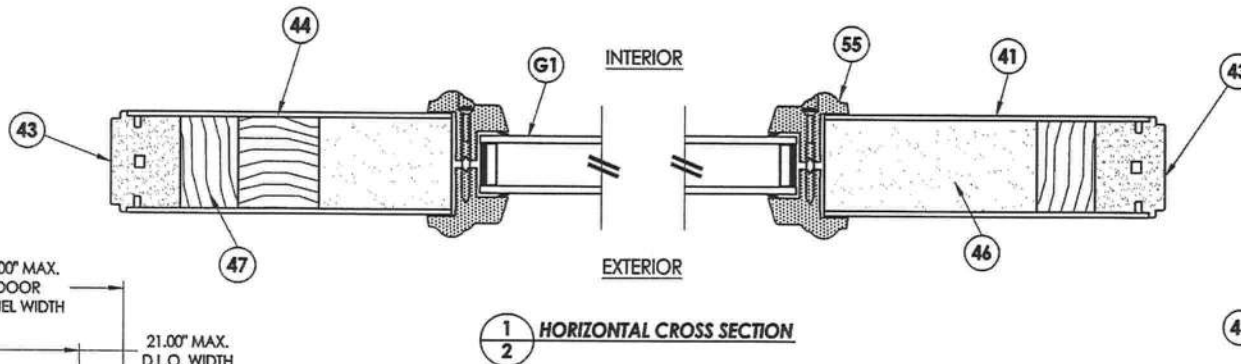
Documents Prepared By: **RW** BUILDING CONSULTANTS, INC.
P.O. Box 230 Vero Beach, FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
67562.0012
Lyndon F. Schmidt, P.E. No. 43409

PRODUCT: PLASTPRO INC.
FIBERGLASS DOOR

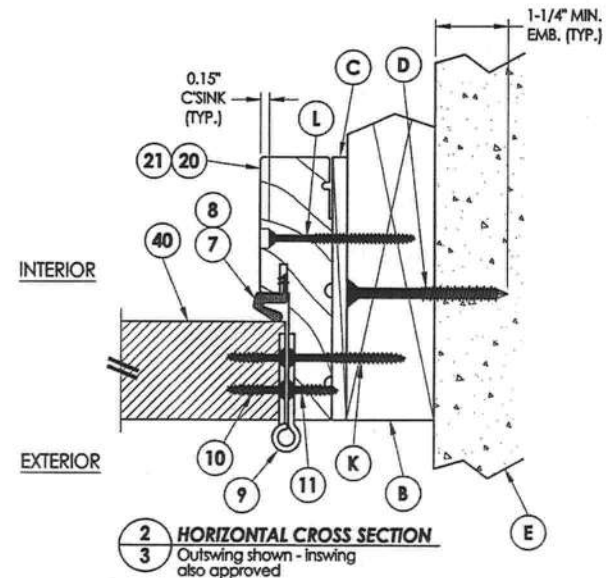
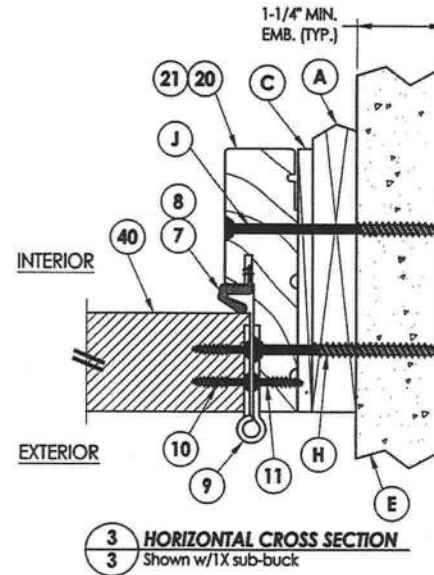
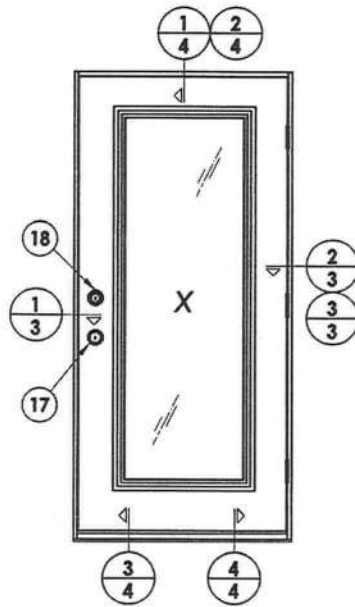
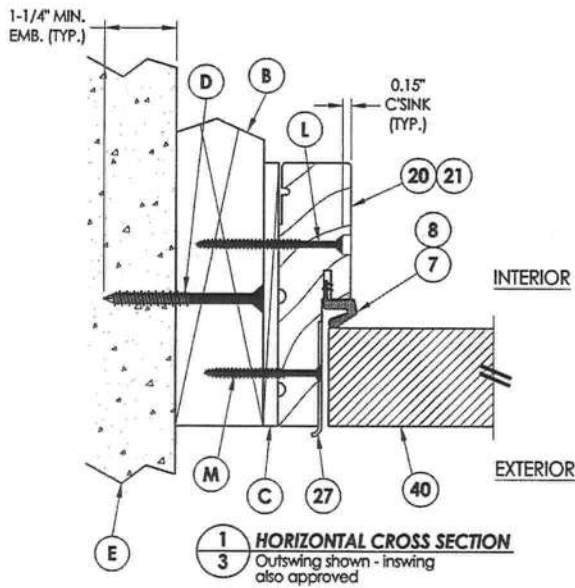
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

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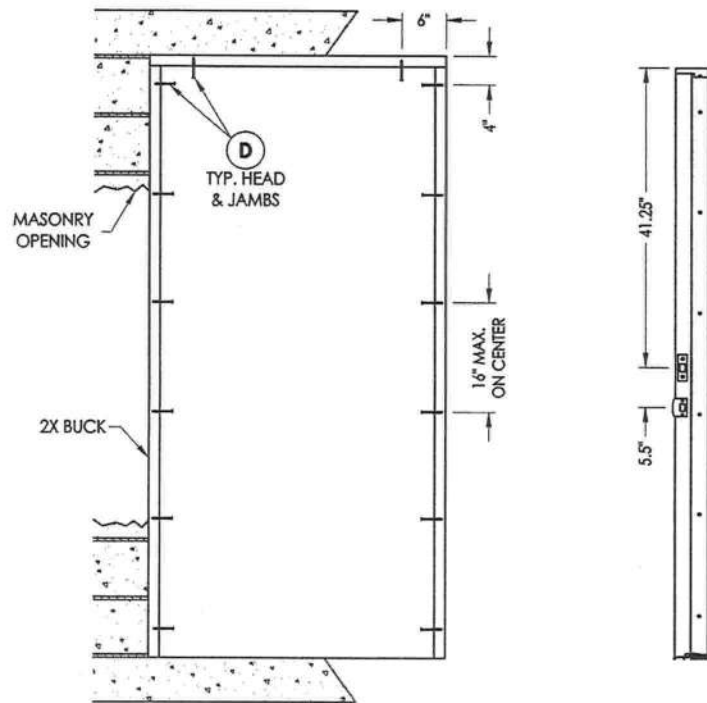
DATE:	02/16/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-15213.14
SHEET	1 OF 7



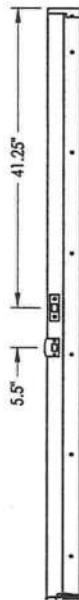
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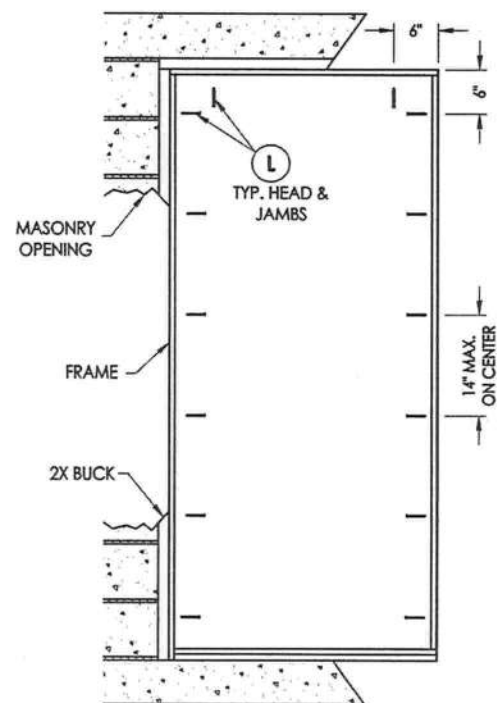
Documents Prepared By: RW BUILDING CONSULTANTS, INC. P.O. Box 230 Vero Beach, FL 33595 Phone No.: 813.669.9187 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 43409		PRODUCT: PLASTPRO INC. FIBERGLASS DOOR PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
DATE: 02/16/12	SCALE: N.T.S.	NO.	DATE
DWG. BY: JK	CHK. BY: LFS	BY	REVISIONS
DRAWING NO.: FL-15213.14	SHEET 3 OF 7		



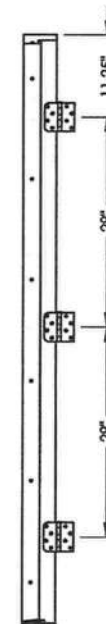
BUCK ANCHORING



STRIKE JAMB



FRAME ANCHORING
Masonry 2X buck construction

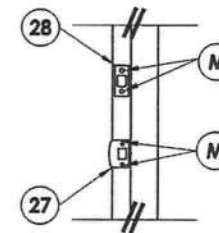


HINGE JAMB

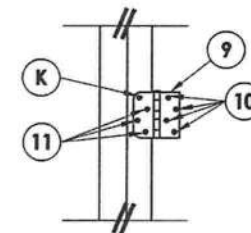
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LATCH & DEADBOLT DETAIL



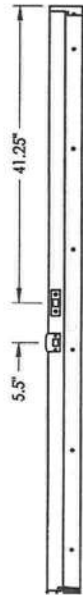
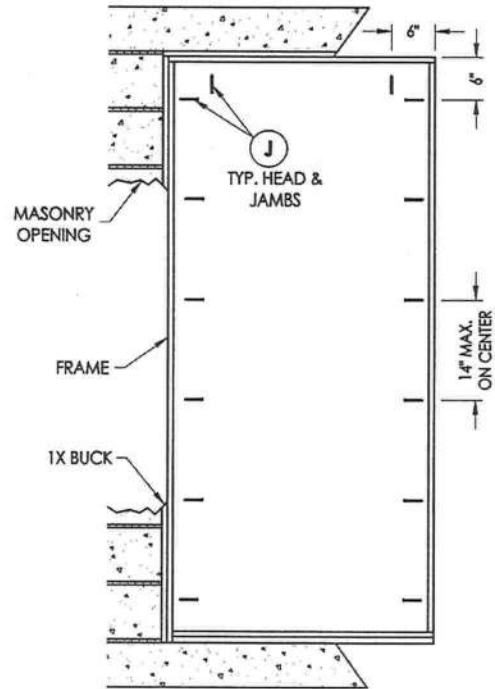
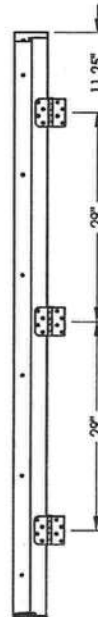
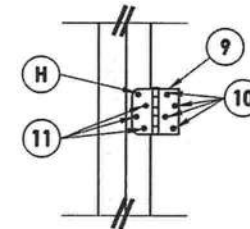
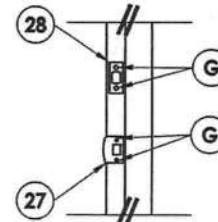
HINGE DETAIL

Documents Prepared By:
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No: 813.659.9197
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
LDL 2-17
Lyndon F. Schmidt, P.E. No. 43409

PRODUCT:	PLASTPRO INC. FIBERGLASS DOOR
PART OR ASSEMBLY:	BUCK AND FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION

[illegible]

DATE:	02/16/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-15213.14
SHEET	5 OF 7

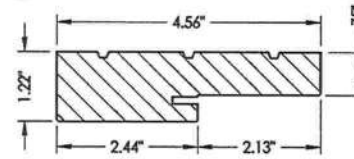
**STRIKE JAMB****FRAME ANCHORING**
Masonry 1X buck construction**HINGE JAMB****HINGE DETAIL****LATCH & DEADBOLT DETAIL****CONCRETE ANCHOR NOTES:**

1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimensions are not exceeded.
3. Concrete anchor table:

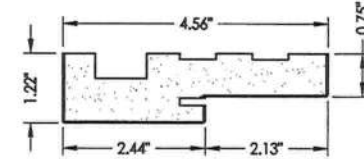
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	1/4"	1-1/4"	2-1/2"	3"
ITW	3/16"	1-1/4"	2-5/8"	2-1/4"

Documents Prepared By:		BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.855.9197 Florida Board of Professional Engineers Certificate Of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 43409	
PRODUCT:		PLASTPRO INC. FIBERGLASS DOOR PART OR ASSEMBLY: FRAME ANCHORING 1X BUCK MASONRY CONSTRUCTION	
NO.		DATE	
BY		REVISIONS	
DATE: 02/16/12		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-15213.14		SHEET 6 OF 7	

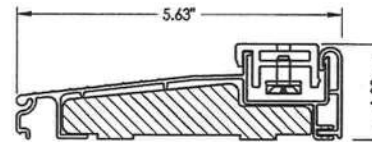
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,192 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	1/4" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ITW CONCRETE SCREW	STEEL
K	#10 X 2" PFH WOOD SCREW	STEEL
L	#8 X 2-1/2" PFH WOOD SCREW	STEEL
M	#8 X 2" PFH WOOD SCREW	STEEL
7	FORCE 5 WEATHER STRIPPING BY ENDURA	FOAM
8	COMPRESSION WEATHER STRIP QLON 650 BY SCHLEGEL	FOAM
9	4" X 4" BUTT HINGE	STEEL
10	#9 X 1" PFH WOOD SCREW	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
17	KWIKSET KEYED ENTRY - SIGNATURE SERIES	STEEL
18	KWIKSET DEADBOLT - SIGNATURE SERIES (780)	STEEL
20	FINGER JOINTED PINE FRAME, HEAD & HINGE JAMBS	WOOD
21	POLYFIBER JAMB	COMP. / VINYL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
30	INSWING VINYL DOOR BOTTOM SWEEP BY ENDURA	VINYL
31	OUTSWING BUMP THRESHOLD	ALUM. / WOOD
32	VINYL DOOR BOTTOM SWEEP #3628 BY HOLM IND.	PVC
33	INSWING ADJUSTABLE THRESHOLD BY ENDURA	ALUM. / WOOD
34	INSWING ADJUSTABLE ALUMINUM THRESHOLD BY DLP	ALUM. / WOOD
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
41	DOOR SKIN (MIN. 0.075" THICK)	FIBERGLASS
42	TOP RAIL	CELLULAR/PVC
43	LATCH & HINGE STILE	CELLULAR/PVC
44	REINFORCEMENT WOOD FOR LOCKS (20" LONG)	WOOD
45	BOTTOM RAIL	CELLULAR/PVC
46	POLYURETHANE FOAM BY NAN YA	POLYURETHANE
47	CONTINUOUS LATCH & HINGE STILE REINFORCEMENT	WOOD
49	GLAZING COMPOUND	SILICONE
55	LIP LITE ODL/WESTERN REFLECTIONS HP	POLYPROPYLENE
56	GLAZING SPACER	ALUM.
57	#8 X 1-1/2" PFH LITE FRAME SCREW	STEEL



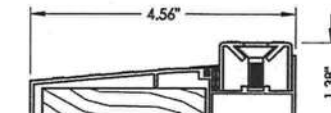
20 HEAD & SIDE
Jamb



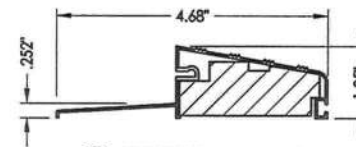
21 HEAD & SIDE
Poly fiber jamb



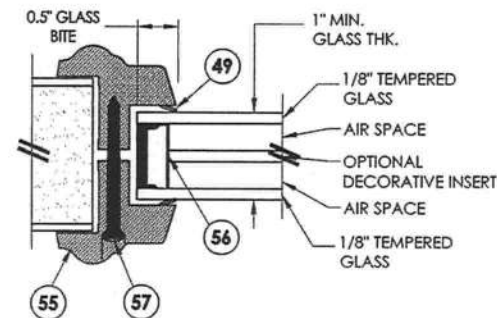
33 ADJUSTABLE INSWING THRESHOLD



34 ADJUSTABLE INSWING THRESHOLD



37 OUTSWING BUMP THRESHOLD

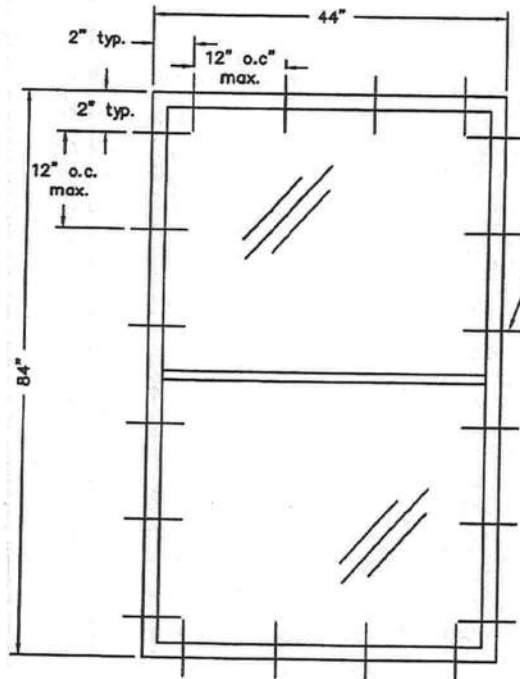


G1 GLAZING DETAIL

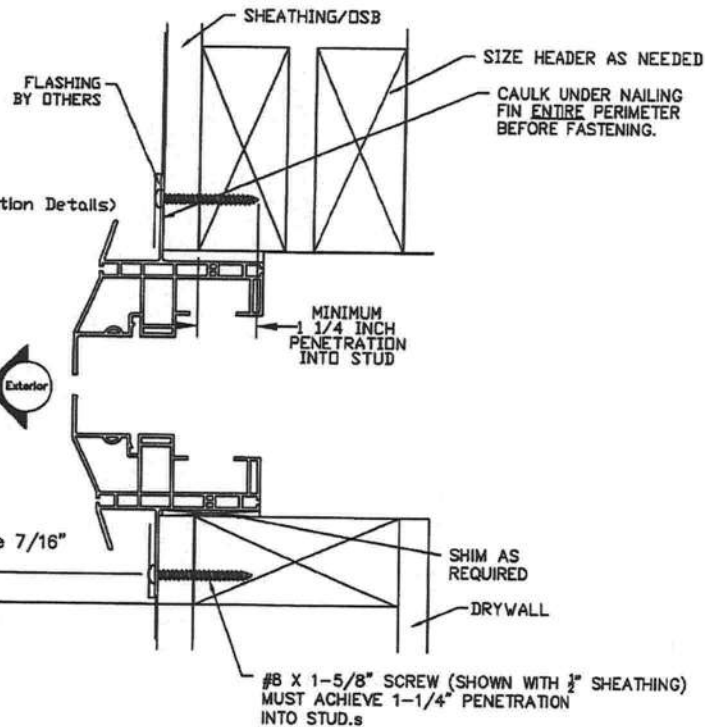
Documents Prepared By:		BUILDING CONSULTANTS, INC. P.O. Box 230 Vero Beach, FL 33595 Phone No.: 813.659.9197 Florida Board of Professional Engineers Certificate Of Authorization No. 0813	
PRODUCT:		PLASTPRO INC. FIBERGLASS DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS	
DATE:	02/16/12	NO.	DATE
SCALE:	N.T.S.	BY	REVISIONS
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	FL-15213.14		
SHEET	7 OF 7		

17676.7

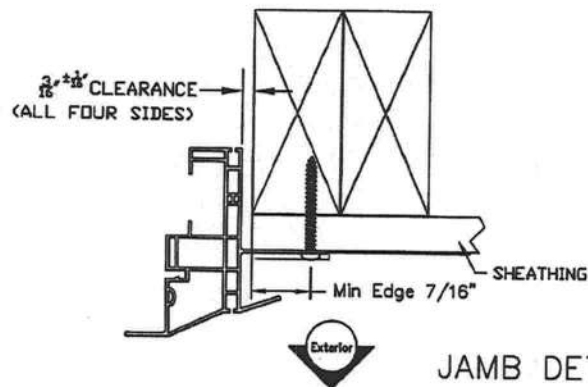
ELEVATION



HEAD DETAIL



SILL DETAIL



JAMB DETAIL

* "NAIL FIN" IS A GENERIC TERM WHICH MEANS "MOUNTING FLANGE". (NOT TO BE CONFUSED WITH "1/2" FRONT FLANGE)

Notes:

1. Installation depicted based off of structural test report #C7324.01-109-47.
2. Wood screws shall satisfy the National Design Specification for Wood Construction for material type and dimensional requirements.
3. Wood buck installations are assumed 2x S-P-F (G=0.42) or denser. Buck width shall be greater than the window frame width. Tapered or partial width bucks are not allowed. Wood buck shall be secured to the structure to resist all design loads.
4. Wood screw lengths shall be sufficient to guarantee 1-1/4" penetration into wood buck.
5. Maximum shim thickness of 1/4" permitted at each fastener location. Shims shall be load bearing, non-compressible type.
6. These drawings depict the details necessary to meet structural load requirements. They do not address the air infiltration, water penetration, intrusion or thermal performance requirements of the installation.
7. Installation shown is that of the test window for the size shown and the design pressure claimed. For window sizes smaller than shown, locate fasteners approx. 2" from corners and no more than 12" on center. Design pressures of smaller window sizes are limited to that of the test window.

SIZE AND DESIGN PRESSURE CHART

FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +30/-30 UNITS UP TO 44" x 84"
(SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)



TITLE:	INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE	FIN-
PRODUCT:	3540 Single Hung	

DRAWN BY:	DATE:
V.M.R.	12-14-09
CHECKED:	DATE:
SCALE:	SHEET:
NONE	1 OF 1
DWG. NO.	REV.
3540-3240 SH FIN	-

INSTALLATION INSTRUCTIONS FOR NEW CONSTRUCTION VINYL FIN WINDOWS

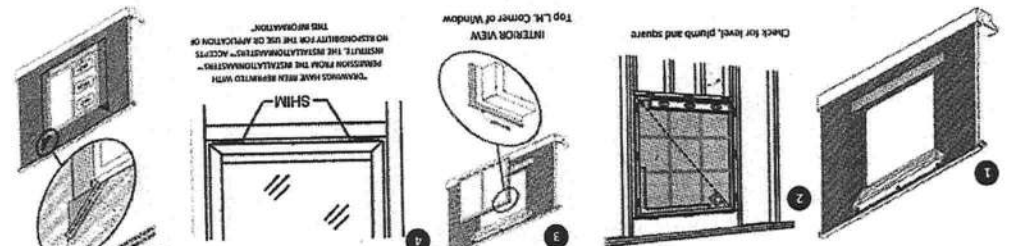
READ THESE INSTRUCTIONS COMPLETELY BEFORE BEGINNING. Please inspect your MI Windows and Doors, Inc. product thoroughly before beginning installation. Inspect the opening and the product, and do not install if there is any observable damage or other irregularity. The product specification sheet and warranty include important information regarding your product and may include product-specific installation requirements (for example, types of fasteners to be used with impact resistant windows and limitations on the height at which the product may be installed). If you did not obtain a copy, please contact MI Windows and Doors, Inc. Local building codes may impose additional requirements, and those codes supersede these instructions.

Failure to follow these instructions, and building code requirements, may affect the remedies available under your warranty.

1. If the building has a weather resistant barrier (WRB) i.e. House wrap, prepare the opening according to WRB manufacturer's instructions. At each top corner make a 45° cut in the WRB. Fold up the WRB so that the top mounting fin of the unit can be installed underneath it. (See figure 1 below)
2. Flashing of the window opening is recommended and may be required by some building codes.
3. Close and lock the sash throughout installation. Keep the side jamb plumb and square and the sill plate is level. Rough openings should be 1/2" larger than window frame in width and height. (See figure 2 below)
4. Apply a continuous 3/8" bead of premium grade, compatible exterior sealant to the interior (backside) of the mounting fin near the outside edge in 779, 24-hour water resistant test.
5. The sill except at the frame corners. Set the window into the opening and the shims centering the window in the opening allowing equal space on either side. For place 1/2" shims on the rough openings on all sides prior to setting the window into the rough opening. (See figure 3 below)
6. Place a temporary fastener in the slot provided in the slot between the fin and the window. Check level and square of the window by measuring the diagonals. Open bottom sash, check the "reveal" (space) between the fin and the window. Close and relock the sash, adjust if necessary. Place additional fasteners in the bottom corners checking window level, plumb and square.
7. Secure the window with fasteners that penetrate the framing by a minimum of 1". Care should be taken to install fasteners straight, not angled. Keep the sash locked until all sides are secure. Prior to fastening the sill and head be sure they are straight and level. Fasteners should be applied securely into every other slot on all sides, do not distort the mounting fin with the fasteners.
8. Apply sealant over fastener heads. Any unused slots and the outside edge of the fin where it comes in contact with the WRB/sheathing. Or if flashing (window tape) is being used - note: sill flashing should have been applied prior to installing the window. Apply the side flashing on top of the mounting fin, overlapping the sill flashing and extending up the past the top mounting fin approximately 2". Then apply the top flashing also over the mounting fin, overlapping the side flashing by approximately 1". Lastly fold down the WRB flap over the top of the window.
9. Tape the diagonal cuts above each corner. (See figure 5 below)
10. Place shims at the meeting rail/check rail on the side jamba to prevent bowing. These shims should remain after installation. Caution should be taken as to not over shim, causing distortion of the frame and hinder sash operation. Check the frame width at top, middle and bottom, if not the same, shim accordingly. Unlock and operate the sash(es). Visually inspect all sight lines. Adjust or shim as required to assure consistent ash reveal and ease of operation.
11. Insulate between the window frame and rough opening with fiberglass insulation or equal. The space may be effectively filled with measured use of low expansion foam but only after determining that foam will not exert pressure against the frame. Which can impair operation. Distortion of the frame will affect the users' rights under the warranty.

CAUTION: Use of solvents or acids will damage components of this product and will limit rights under the warranty. Vinyl windows have pre-punched slots for installation - fastening in any other portion may permanently damage unit which will limit rights under the warranty. It is the sole responsibility of the owner, architect, and/or builder to select correct products to be in compliance with applicable laws, site requirements and building codes and to ensure that installation is in compliance with applicable laws, site requirements and building codes. Do not store in the sun or lay flat before or during installation. Any penetrations (e.g., alarm sensors) made through any portion of any MI Windows and Doors, Inc. product may affect rights under the manufacturer's warranty. Some laws and building codes require safety glass. The ordering party is responsible to specify safety glass and ensure compliance. These instructions are minimum requirements only; check state and local code restrictions for additional compliance or installation and/or fastening. If unit has exterior trim (brickmold/ channel, etc.) the unit must be sealed behind the nail fin. The trim is provided for aesthetic purposes only, and not designed to be water tight. Installation into masonry or replacement openings must be sealed to the openings using an approved, proper method. Refer to AAMA 2400 and/or ASTM 2112 standards.

These installation instructions are provided for information only; no representation and warranty is made that these instructions set forth all of the information necessary for proper installation of the product. Give the variety of field conditions; primary responsibility for product installation rests with the installer. Do not proceed unless you have addressed the factors necessary to achieve weather-tight installation of a properly functioning product. MI Windows and Doors, Inc. assumes no liability for any personal injury or property damage incurred in installation. These instructions, together with the product specifications and warranty set forth the entire liability of MI Windows and Doors, Inc. with regard to the product.



Call MI Windows and Doors, Inc. for more information. 1-800-368-3636

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MI Windows and Doors
650 West Market St
Gatz, PA 17030
Spring You Through

ENERGY PERFORMANCE RATINGS

U-Factor (U.S./I-P) **0.33**

Solar Heat Gain Coefficient **0.21**

Visible Transmittance **0.39**

Air Leakage (U.S./I-P) **<= 0.3**

ADDITIONAL PERFORMANCE RATINGS

Report# **C737.111-108-47-R0**

Florida ID **17676**

STC / OTC **27 / 33**

Water **5.43**

Port Grade **+DP (ASD)**

Max Test Size **36.00 X 74.00**

ENERGY STAR

For full information, see label on product.

For information regarding installation instructions, please visit www.mwd.com.

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- Do not store in the sun or lay flat before or during installation.
- Any penetrations (e.g., alarm sensors) made through any portion of any MI Windows and Doors, Inc. product may affect rights under the manufacturer's warranty.
- Some laws and building codes require safety glass. The ordering party is responsible to specify safety glass and ensure compliance.

INSTALLING

After the opening is prepared, follow these steps:

1. Remove the bottom rail.
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FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Galloney Street: City, State, Zip: Ft. White, FL, 32038 Owner: Design Location: FL, Gainesville	Builder Name: Ellwood construction Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) - Conditioned floor area below grade (ft²) 7. Windows (262.8 sqft.) a. U-Factor: Dbl, U=0.33 - SHGC: SHGC=0.22 b. U-Factor: N/A - SHGC: c. U-Factor: N/A - SHGC: d. U-Factor: N/A - SHGC: - Area Weighted Average Overhang Depth: 2.000 ft. - Area Weighted Average SHGC: 0.220 8. Floor Types (2290.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A c. N/A	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">New (From Plans)</th> <th style="text-align: left;">Insulation</th> <th style="text-align: left;">Area</th> </tr> </thead> <tbody> <tr> <td>Single-family</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>No</td> <td></td> <td></td> </tr> <tr> <td>2290</td> <td></td> <td></td> </tr> <tr> <td>0</td> <td></td> <td></td> </tr> </tbody> </table> 9. Wall Types (2470.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (2290.0 sqft.) a. Roof Deck (Unvented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. LP Gas Furnace 14. Hot water systems a. Propane b. Conservation features - None 15. Credits	New (From Plans)	Insulation	Area	Single-family			1			3			No			2290			0		
New (From Plans)	Insulation	Area																				
Single-family																						
1																						
3																						
No																						
2290																						
0																						

Glass/Floor Area: 0.115 Total Proposed Modified Loads: 62.73 Total Baseline Loads: 62.54	PASS
---	----------------------------------

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <i>Virgil Cep</i> DATE: 1-11-17	 Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. BUILDING OFFICIAL: _____ DATE: _____
---	--

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as

certified factory-sealed in accordance with R403.2.2.1.

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

WALLS

✓ #	Omt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Height Ft	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	15	40	6	10	405.0 ft²	0.23	0.75	0
2	E	Exterior	Frame - Wood	Main	15	61	6	10	615.0 ft²	0.23	0.75	0
3	S	Exterior	Frame - Wood	Main	15	62	6	10	625.0 ft²	0.23	0.75	0
4	W	Exterior	Frame - Wood	Main	15	55	10	10	558.3 ft²	0.23	0.75	0
5	N	Garage	Frame - Wood	Main	15	22	10	10	220.0 ft²	0.23	0.75	0
6	W	Exterior	Frame - Wood	Main	15	4	8	10	46.7 ft²	0.23	0.75	0

DOORS

✓	#	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
_____	1	N	Insulated	Main	None	.46	3		6	8	20 ft²
_____	2	S	Insulated	Main	None	.46	6		6	8	40 ft²
_____	3	N	Insulated	Main	None	.46	2	8	6	8	17.8 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Omt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Depth	Overhang Separation	Int Shade	Screening
1	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	13.8 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
2	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	12.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
3	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	30.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
4	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	10.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
5	E	2	Vinyl	Low-E Double	Yes	0.33	0.22	20.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
6	S	3	Vinyl	Low-E Double	Yes	0.33	0.22	105.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
7	S	3	Vinyl	Low-E Double	Yes	0.33	0.22	24.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
8	S	3	Vinyl	Low-E Double	Yes	0.33	0.22	24.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
9	W	4	Vinyl	Low-E Double	Yes	0.33	0.22	9.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
10	S	3	Vinyl	Low-E Double	Yes	0.33	0.22	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	462 ft²	384 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000318	1908.3	104.76	197.03	.2446	5

HEATING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	LP Gas Furnace	None	AFUE:0.78	45 kBtu/hr	1	sys#1

COOLING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit	None	SEER: 14	34 kBtu/hr	1020 cfm	0.75	1	sys#1

HOT WATER SYSTEM

✓ #	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
1	Propane	Tankless	Garage	0.66	1 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

✓ #	Location	Supply ---- R-Value	Area	Return ---- Location	Leakage Type	Air Handler	CFM 25	CFM25 TOT	OUT	QN	RLF	Heat	Cool	HVAC #
1	Attic	6	458 ft²	Attic	114.5 ft	Default Leakage	Main	(Default)	(Default)			1	1	

TEMPERATURES

Programmable Thermostat: Y

Ceiling Fans:

Cooling Heating Venting	Jan Jan Jan	Feb Feb Feb	Mar Mar Mar	Apr Apr Apr	May May May	Jun Jun Jun	Jul Jul Jul	Aug Aug Aug	Sep Sep Sep	Oct Oct Oct	Nov Nov Nov	Dec Dec Dec
Thermostat Schedule: HERS 2006 Reference												
Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68

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

ADDRESS:

FL White, FL, 32038

Permit Number:

MANDATORY REQUIREMENTS See individual code sections for full details.

- ☐ **401.3 Energy Performance Level (EPL) display card (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law [Section 553.9085, Florida Statutes] requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate compliance for the building. A copy of the EPL display card can be found in Appendix C.
- ☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.1 through R402.4.4.
- ☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
- **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table 402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
 - **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zones 1 and 2, and 3 air changes per hour in Climate Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
- During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
 3. Interior doors, if installed at the time of the test, shall be open;
 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
 5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
 6. Supply and return registers, if installed at the time of the test, shall be fully open.
- ☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have light-fitting flue dampers and outdoor combustion air.
- ☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
- Exception:** Site-built windows, skylights and doors.
- ☐ **R402.4.4 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E 283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- ☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.
- ☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.
- ☐ **R403.2.2 Sealing (Mandatory)** All ducts, air handlers, and filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts and plenum chambers, shall be constructed and sealed in accordance with Section C403.2.7.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria by post-construction or rough-in testing below.
- Duct tightness shall be verified by testing to Section 803 of the RESNET Standards by either an energy rater certified in accordance with Section 553.99, Florida Statutes, or as authorized by Florida Statutes, to be "substantially leak free" by either of the following:
1. Post-construction test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
 2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m²) of conditioned floor area.
- Exceptions:**
1. The total leakage test is not required for ducts and air handlers located entirely within the building envelope.
 2. Duct testing is not mandatory for buildings complying by Section R405 of this code.

MANDATORY REQUIREMENTS - (Continued)

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

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

Exceptions:

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

- **R403.6.1.2 Heating equipment capacity**

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

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

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

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

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

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

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

- **R403.9.1.1 Gas and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013 when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural gas or LP gas shall not have continuously burning pilot lights.
- **R403.9.1.2 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- **R403.9.2 Time switches.** Time switches or other control method that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on all heaters and pumps. Heaters, pumps and motors that have built in timers shall be deemed in compliance with this equipment.

Exceptions:

- 1. Where public health standards require 24-hour pump operations.
- 2. Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.
- 3. Where pumps are powered exclusively from on-site renewable generation.
- **R403.9.3 Covers.** Heated swimming pools and inground permanently installed spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
 - **Exception:** Outdoor pools deriving over 70 percent of the energy for heating from site-recovered energy, such as a heat pump or solar energy source computed over an operating season.

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

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

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

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

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

TABLE 402.4.1.1

AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: Galloney Street: City, State, Zip: FL, White , FL , 32038 Owner: Design Location: FL, Gainesville		Builder Name: Ellwood construction Permit Office: Permit Number: Jurisdiction:	
COMPONENT	CRITERIA	CHECK	
Air barrier and thermal barrier	A continuous air barrier shall be installed in the building envelope. Exterior thermal envelope contains a continuous barrier. Breaks or joints in the air barrier shall be sealed. Air-permeable insulation shall not be used as a sealing material.		
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.		
Walls	Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top or exterior walls shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Knee walls shall be sealed.		
Windows, skylights and doors	The space between window/door jambs and framing and skylights and framing shall be sealed.		
Rim joists	Rim joists are insulated and include an air barrier.		
Floors (including above-garage and cantilevered floors)	Insulation shall be installed to maintain permanent contact with underside of subfloor decking. The air barrier shall be installed at any exposed edge of insulation.		
Crawl space walls	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls. Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.		
Shafts, penetrations	Duct shafts, utility penetrations, and flue shaft openings to exterior or unconditioned space shall be sealed.		
Narrow cavities	Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.		
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be air tight, IC rated, and sealed to the drywall.		
Plumbing and wiring	Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.		
Shower/tub on exterior wall	Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.		
Electrical/phone box on	The air barrier shall be installed behind electrical or communication boxes or air sealed boxes shall be installed.		
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.		
Fireplace	An air barrier shall be installed on fireplace walls. Fireplaces shall have gasketed doors		

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Envelope Leakage Test Report Prescriptive and Performance Method

Project Name: Galloney
Street:
City, State, Zip: Ft. White, FL, 32038
Design Location: FL, Gainesville
Cond. Floor Area: 2290 sq.ft.

Builder Name: Ellwood construction
Permit Office:
Permit Number:
Jurisdiction:
Cond. Volume: 22900 cu.ft.

Envelope Leakage Test Results

Regression Data:

C: _____ n: _____ R: _____

Single or Multi Point Test Data

	HOUSE PRESSURE	FLOW:
1	Pa	cfm
2	Pa	cfm
3	Pa	cfm
4	Pa	cfm
5	Pa	cfm
6	Pa	cfm

Leakage Characteristics

CFM(50): _____
ELA: _____
EqLA: _____
ACH: _____
ACH(50): _____
SLA: _____

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zones 1 and 2, 3 air changes per hour in Climate Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

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

I hereby certify that the above envelope leakage performance results demonstrate compliance with Florida Energy Code requirements in accordance with Section R402.4.1.2.

SIGNATURE: _____

PRINTED NAME: _____

DATE: _____



Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the third party conducting the test and provided to the code official.

BUILDING OFFICIAL: _____
DATE: _____

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

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

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

Required prior to CO for the Performance Method:

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

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

, Ft. White, FL, 32038

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=15.0	2250.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=15.0	220.00 ft ²
4. Number of Bedrooms	3	c. N/A	R=	ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2290	10. Ceiling Types	Insulation	Area
7. Windows**		a. Roof Deck (Unvented)	R=21.0	2290.00 ft ²
a. U-Factor:		b. N/A	R=	ft ²
SHGC:		c. N/A	R=	ft ²
b. U-Factor:		11. Ducts		R
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main		6
c. U-Factor:				458
SHGC:		12. Cooling systems	kBtu/hr	Efficiency
d. U-Factor:		a. Central Unit	34.0	SEER: 14.00
SHGC:		13. Heating systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	2.000 ft.	a. LP Gas Furnace	45.0	AFUE: 0.78
Area Weighted Average SHGC:	0.220	14. Hot water systems		Cap: 1 gallons
8. Floor Types		a. Propane		EF: 0.66
a. Slab-On-Grade Edge Insulation		b. Conservation features		
b. N/A		None		
c. N/A		15. Credits		Pstat

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

Builder Signature: _____

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 R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

CEDAR • BEADED CEDAR • BEADED SMOOTH

IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND THE MANUFACTURER'S WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY.

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing product wet or saturated may result in shrinkage at butt joints. Carry product on edge. Protect edges and corners from breakage.

Cemboard® is not responsible for damage caused by improper storage and handling of the product.



CUTTING INSTRUCTIONS*

OUTDOORS	INDOORS
1. Position cutting station so that wind will blow dust away from user and others in working area.	1. NEVER cut with power saws indoors
2. Use one of the following methods: a. Best: 1. Score and snap 2. Shears (manual, electric or pneumatic) b. Better: Dust reducing circular saw	2. Cut only using score and snap, or shears (manual, electric or pneumatic).
	3. Position cutting station in well-ventilated area

* Shears and score/snap methods may not be suitable for products thicker than 1/2 in.

NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.com to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact the manufacturer for further information.

GENERAL REQUIREMENTS:

- Cemplank® lap siding can be installed over braced wood or steel studs spaced a maximum of 24 in. o.c. or directly to minimum 7/16 in. thick OSB sheathing. See general fastening requirements. Irregularities in framing and sheathing can mirror through the finished application.
- Information on installing Cemboard products over foam can be located in **JH Tech Bulletin 19** at www.jameshardie.com
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. Cemboard will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap¹, which complies with building code requirements.
- When installing Cemboard products all clearance details in figs. 3-14 must be followed.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6 in. in the first 10 ft..
- Do not use Cemplank lap siding in fascia or trim applications.
- Do not install Cemboard products, such that they may remain in contact with standing water.
- Cemplank lap siding may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design.
- These values can be found in the Technical Bulletin "Expansion Characteristics of Cemboard® Siding Products" at www.jameshardie.com.
- DO NOT use stain, oil/alkyd base paint, or powder coating on Cemboard® Products.

INSTALLATION: JOINT TREATMENT

One or more of the following joint treatment options are required by code (as referenced 2009 IRC R703.10.2)

- Joint Flashing (Cemboard recommended)
- Caulking* (Caulking is not recommended for Factory Built Color for aesthetic reasons as the Caulking and Factory Built Color will weather differently. For the same reason, do not caulk nail heads on Factory Built Color products.)
- "H" jointer cover

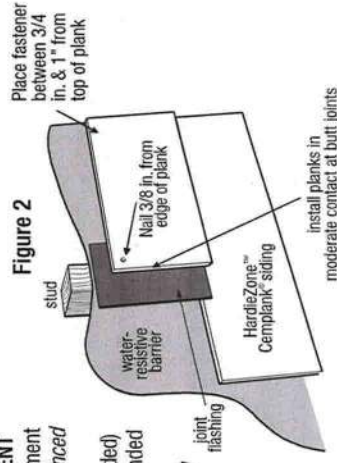


Figure 2

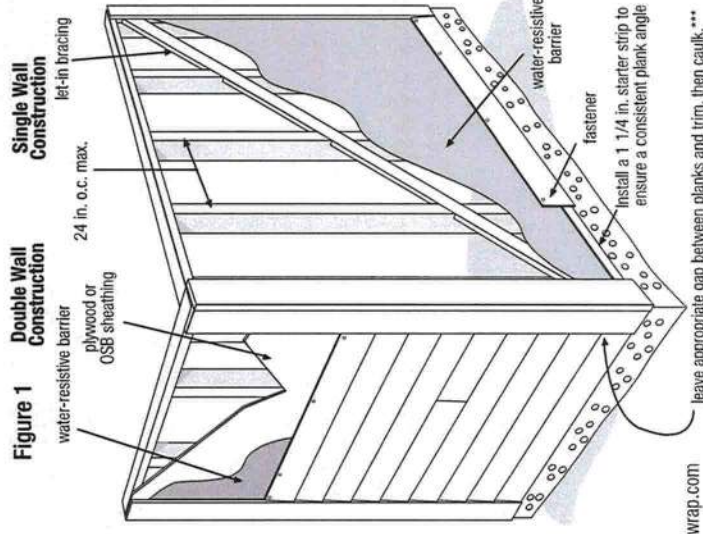


Figure 1

*Refer to Caulking section in these instructions.

¹For additional information on HardieWrap® Weather Barrier, consult Cemboard at 1-866-4Hardie or www.hardiewrap.com

***DANGER: Do not breathe dust from this product.** Respirable Crystalline Silica Dust causes damage to lungs and respiratory system through prolonged or repeated inhalation.

Fiber cement is not a health hazard when handled or stored in its original, unaltered condition. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, abrading, drilling, routing, sawing, counting, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust: (1) follow James Hardie instructions and best practices to reduce or limit the release of dust; (2) wear others in the area to avoid the dust; (3) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment; and (4) if no other dust control are available, wear a NIOSH-approved dust mask or respirator (e.g., the N 95 dust mask).

Refer to the product Safety Data Sheet before use. Do not handle product until all safety precautions have been read and understood. Wash hands and face thoroughly after handling. If exposed to dust or concerned, get medical advice. If symptoms of breath or other health concerns develop after exposure to dust from the product, seek medical attention. Dispose of product in accordance with local, state and national regulations. If there are no applicable regulations, dispose of in a secure landfill, or in a way that will not expose others to dust.

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov/product.

For more information contact: James Hardie Building Products, Inc., 231 S. LaSalle St., Suite 2000, Chicago, IL 60604 USA 1-888-JHARDIE www.jameshardie.com www.jhsafesite.com

CLEARANCE AND FLASHING REQUIREMENTS

Figure 3

Roof to Wall

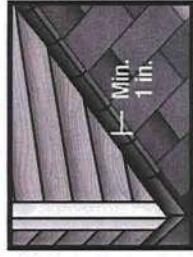


Figure 4

Horizontal Flashing

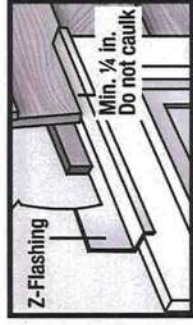


Figure 5

Kickout Flashing



Figure 6

Slabs, Path, Steps to Siding

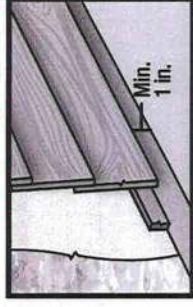


Figure 7

Deck to Wall

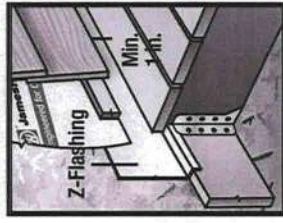


Figure 8

Ground to Siding

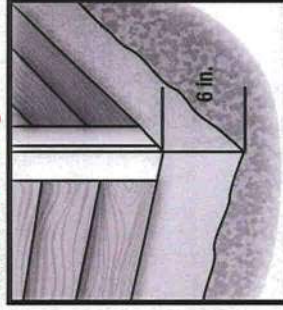


Figure 9

Gutter to Siding



Figure 10

Sheltered Areas

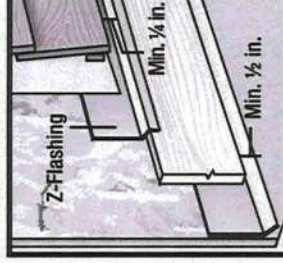


Figure 11

Mortar/Masonry

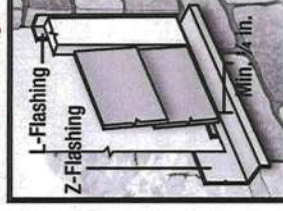


Figure 12

Drip Edge

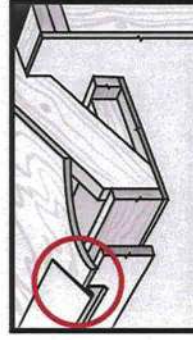


Figure 13

Block Penetration
(Recommended in HZ10)

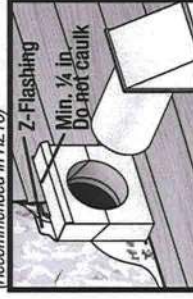


Figure 14

Valley/Shingle Extension



FASTENER REQUIREMENTS **

(Please refer to the applicable ESR report online to determine which fastener meets your wind load design criteria) Blind Nailing is the preferred method of installation for Cemiplank® lap siding products. Face nailing should only be used where required by code for high wind areas and must not be used in conjunction with Blind nailing (Please see JH Tech bulletin 17 for exemption when doing a repair). **Pin-backed corners may be done for aesthetic purposes Only. Pin-backs shall be done with finish nails only, and are not a substitute for blind or face nailing.**

BLIND NAILING

Nails - Wood Framing

- Siding nail (0.09 in. shank x 0.221 in. HD x 2 in. long)
- 11ga. roofing nail (0.121 in. shank x 0.371 in. HD x 1.25 in. long)

Screws - Steel Framing

- Ribbed Wafer-head or equivalent (No. 8 x 1 1/4 in. long x 0.375 in. HD) Screws must penetrate 3 threads into metal framing.

Nails - Steel Framing

- ET & F Panelfast® nails or equivalent (0.10 in. shank x 0.313 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

OSB minimum 7/16 in.

- 11ga. roofing nail (0.121 in. shank x 0.371 in. HD x 1.75 in. long)
- Ribbed Wafer-head or equivalent (No. 8 x 1 5/8 in. long x 0.375 in. HD).

FACE NAILING

Nails - Wood Framing

- 6d (0.113 in. shank x 0.267 in. HD x 2 in. long)
- Siding nail (0.09 in. shank x 0.221 in. HD x 2 in. long)

Screws - Steel Framing

- Ribbed Bugle-head or equivalent (No. 8-18 x 1-5/8 in. long x 0.323 in. HD) Screws must penetrate 3 threads into metal framing.

Nails - Steel Framing

- ET & F pin or equivalent (0.10 in. shank x 0.25 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.
- OSB minimum 7/16 in.
- Siding nail (0.09 in. shank x 0.221 in. HD x 1-1/2 in. long)*

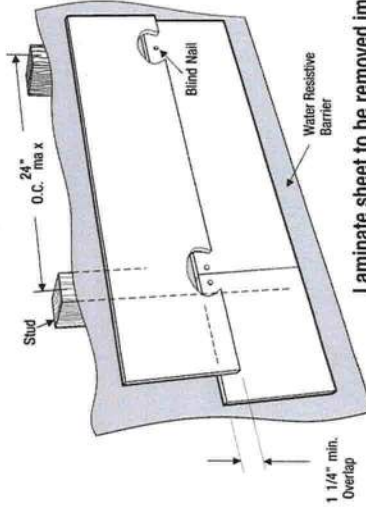


Figure 15

Minimum overlap
for Both Face
and Blind Nailing

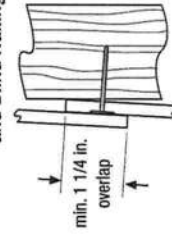
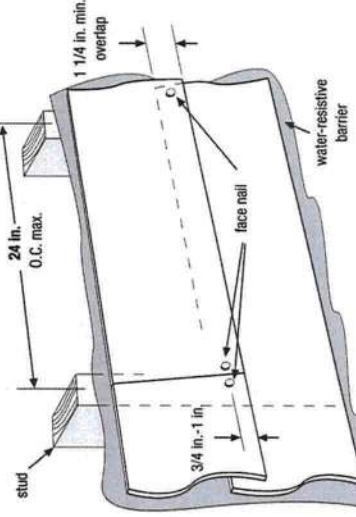


Figure 16



Laminate sheet to be removed immediately after installation of each course for ColorPlus® products.

* When face nailing to OSB, planks must be no greater than 9 1/4 in. wide and fasteners must be 12 in. o.c. or less.

** Also see General Fastening Requirements; and when considering alternative fastening options refer to Technical Bulletin USTB 17 - Fastening Tips for Cemiplank® Lap Siding.

GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. Cemboard recommends the use of quality, hot-dipped galvanized nails. Cemboard is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing Cemboard® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach Hardie Trim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5.

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult Cemboard Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space), (fig. A)
- Do not over-drive nail heads or drive nails at an angle.
- If nail is countersunk, fill nail hole and add a nail. (fig. B)
- For wood framing, under driven nails should be hit flush to the plank with a hammer (For steel framing, remove and replace nail).
- **Do not use aluminum fasteners, staples, or clipped head nails.**

PNEUMATIC FASTENING

Cemboard products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).



PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on Cemboard® Products. Cemboard products must be painted within 180 days for primed product and 90 days for unprimed. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges.

CAULKING

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions. **Note: Some caulking manufacturers do not allow tooling.**

FACTORY BUILT COLOR CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting Cemboard® Factory Built Color products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
- Touch up nicks, scrapes and nail heads using the Factory Built Color touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with new Cemplanck® lap siding with Factory Built Color.
- Laminate sheet must be removed immediately after installation of each course.
- Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your Factory Built Color product dealer.
- Treat all other non-factory cut edges using the Factory Built Color edge coat, available from your Factory Built Color product dealer.

Note: Cemboard does not warrant the usage of third party touch-up or paints used as touch-up on Cemboard Factory Built Color products.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not Cemboard touch-up will not be covered under the Cemboard Factory Built Color Limited Finish Warranty.

RE-PAINTING CEMBOARD® SIDING AND TRIM PRODUCTS WITH FACTORY BUILT COLOR

When repainting Factory Built Color products, Cemboard recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature

COVERAGE CHART/ESTIMATING GUIDE

Number of 12 ft. planks, does not include waste

COVERAGE AREA LESS OPENINGS

CEMBOARD® LAP SIDING WIDTH

SQ (1 SQ = 100 sq.ft.)	5 1/4 (exposure)	6 1/4	7 1/4	7 1/2	8	8 1/4	9 1/4	9 1/2	12
	4	5	6	6 1/4	6 3/4	7	8	8 1/4	10 3/4
1	25	20	17	16	15	14	13	13	9
2	50	40	33	32	30	29	25	25	19
3	75	60	50	48	44	43	38	38	28
4	100	80	67	64	59	57	50	50	37
5	125	100	83	80	74	71	63	63	47
6	150	120	100	96	89	86	75	75	56
7	175	140	117	112	104	100	88	88	65
8	200	160	133	128	119	114	100	100	74
9	225	180	150	144	133	129	113	113	84
10	250	200	167	160	148	143	125	125	93
11	275	220	183	176	163	157	138	138	102
12	300	240	200	192	178	171	150	150	112
13	325	260	217	208	193	186	163	163	121
14	350	280	233	224	207	200	175	175	130
15	375	300	250	240	222	214	188	188	140
16	400	320	267	256	237	229	200	200	149
17	425	340	283	272	252	243	213	213	158
18	450	360	300	288	267	257	225	225	167
19	475	380	317	304	281	271	238	238	177
20	500	400	333	320	296	286	250	250	186

This coverage chart is meant as a guide. Actual usage is subject to variables such as building design. Cemboard does not assume responsibility for over or under ordering of product.

RECOGNITION: In accordance with ICC-ES Evaluation Report ESR-2290, Cemboard® lap siding is recognized as a suitable alternate to that specified in: the 2006, 2009, & 2012 International Residential Code for One- and Two-Family Dwellings, and the 2006, 2009, & 2012 International Building Code. Cemboard lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24662, State of Florida listing FL#689, Dade County, Florida NOA No. 02-0729.02, U.S. Dept. of HUD Materials Release 1263c, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

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Additional Installation Information,
Warranties, and Warnings are available at
www.cemboardsiding.com





UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Construction Materials Testing • Threshold Inspection
Building Inspection • Plan Review • Building Code Administration

4475 Southwest 35th Terrace, Gainesville, 32608 • P: 352.372.3392 • F: 352.336.7914

UES Project No: 0210.1700052.0000
Workorder No: 1033773-1
Report Date: 2/27/2017

#34893

In-Place Density Test Report

Client:

Elwood Construction Company, Inc.
P.O. Box 358290
Gainesville, FL 32635-8290

UES Technician: Andres Arias
Date Tested: 02/27/2017

Project:

Ft. White, CSD
956 SW Morning Star Glenn, Ft. White, Columbia County, FL

Area Tested: House Pad

Material: Fill

Type of Test:

Field: ASTM D-6938 Nuclear Gauge Metho
Laboratory: ASTM D1557 Modified Proctor

Reference Datum: 0 = Top of Final Grade

The tests below meet the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

Test No.	Location of Test	Range	Maximum Density (pcf)	Optimum Moisture (%)	Field Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)	Fill Depth (inch)	Pass or Fail
1	10' East and 10' South of NW Corner of lot	-1-0 ft	105.4	15.3	100.3	2.8	95	N/A	Pass
2	10' East and 10' North of SW Corner of lot	-1-0 ft	105.4	15.3	103.0	3.9	98	N/A	Pass
3	10' West and 10' North of SE Corner of lot	-1-0 ft	105.4	15.3	102.8	3.6	98	N/A	Pass
4	10' West and 10' South of NE Corner of lot	-2-1 ft	105.4	15.3	102.2	4.1	97	N/A	Pass
5	Approximate Center of lot	-3-2 ft	105.4	15.3	101.5	3.7	96	N/A	Pass

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 34-5S-16-03752-212

Building permit No. 000034895

Use Classification SFD, UTILITY

Fire: 30.56

Permit Holder KEN ELWOOD

Waste: 32.18

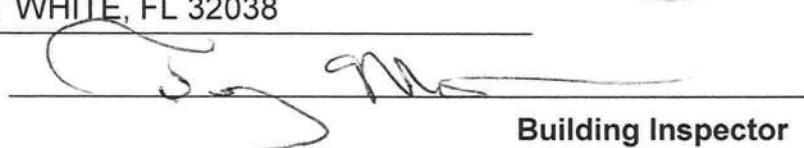
Owner of Building JAMES GALLONEY

Total: 62.74

Location: 956 SW MORNING STAR GLEN, FORT WHITE, FL 32038

Date: 08/24/2017




Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

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: 1VXE917-Z0111131151

Truss Fabricator: **Riverside Roof Truss, Inc.**
Job Identification: **16474--THE MANCHESTER MODEL -- 911 ADDRESS GAINESVILLE, FL**
Truss Count: **53**
Model Code: **Florida Building Code 5th Edition (2014)**
Truss Criteria: **TPI-2007(STD)**
Engineering Software: **Alpine Software, Version 15.01.**
Structural Engineer of Record: **The identity of the structural EOR did not exist as of**
Address: **the seal date per section 61615-31.003(5a) of the FAC**
Minimum Design Loads: **Roof - 40.0 PSF @ 1.25 Duration**
Floor - N/A
Wind - 130 MPH ASCE 7-10 -Closed

Notes:

- 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
- The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
- As shown on attached drawings; the drawing number is preceded by: HCUSR917

Details: BRCLBSUB-14015EC1-GBLLETIN-14030EC1-VAL16010-PB16010-

#	Ref	Description	Drawing#	Date
1	00060--A1		17011054	01/11/17
2	00061--A2		17011018	01/11/17
3	00062--A3		17011019	01/11/17
4	00063--A4		17011020	01/11/17
5	00064--A5		17011021	01/11/17
6	00065--A6		17011022	01/11/17
7	00066--A7		17011023	01/11/17
8	00067--A8		17011024	01/11/17
9	00068--A9		17011025	01/11/17
10	00069--A10		17011026	01/11/17
11	00070--A11		17011027	01/11/17
12	00071--A12		17011028	01/11/17
13	00072--A13		17011029	01/11/17
14	00073--A14		17011030	01/11/17
15	00074--A15		17011031	01/11/17
16	00075--A16		17011032	01/11/17
17	00076--A17		17011033	01/11/17
18	00077--A18		17011034	01/11/17
19	00078--A19		17011035	01/11/17
20	00079--B1		17011036	01/11/17
21	00080--B2		17011037	01/11/17
22	00081--B3		17011038	01/11/17
23	00082--C1		17011039	01/11/17
24	00083--C2		17011040	01/11/17
25	00084--C3		17011041	01/11/17
26	00085--J1		17011042	01/11/17
27	00086--J2		17011043	01/11/17
28	00087--J3		17011044	01/11/17
29	00088--J3A		17011045	01/11/17
30	00089--J4		17011046	01/11/17
31	00090--J4A		17011047	01/11/17
32	00091--CJ1		17011048	01/11/17
33	00092--CJ2		17011049	01/11/17

#	Ref	Description	Drawing#	Date
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35	00094--V2		17011003	01/11/17
36	00095--V3		17011004	01/11/17
37	00096--V4		17011005	01/11/17
38	00097--V5		17011006	01/11/17
39	00098--V6		17011007	01/11/17
40	00099--V7		17011008	01/11/17
41	00100--V8		17011009	01/11/17
42	00101--V9		17011010	01/11/17
43	00102--V10		17011011	01/11/17
44	00103--V11		17011012	01/11/17
45	00104--V12		17011013	01/11/17
46	00105--V13		17011014	01/11/17
47	00106--V14		17011015	01/11/17
48	00107--V15		17011016	01/11/17
49	00108--V16		17011017	01/11/17
50	00109--PB1		17011050	01/11/17
51	00110--PB2		17011051	01/11/17
52	00111--PB3		17011052	01/11/17
53	00112--PB4		17011053	01/11/17



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

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5	00064--A5		17011021	01/11/17
6	00065--A6		17011022	01/11/17
7	00066--A7		17011023	01/11/17
8	00067--A8		17011024	01/11/17
9	00068--A9		17011025	01/11/17
10	00069--A10		17011026	01/11/17
11	00070--A11		17011027	01/11/17
12	00071--A12		17011028	01/11/17
13	00072--A13		17011029	01/11/17
14	00073--A14		17011030	01/11/17
15	00074--A15		17011031	01/11/17
16	00075--A16		17011032	01/11/17
17	00076--A17		17011033	01/11/17
18	00077--A18		17011034	01/11/17
19	00078--A19		17011035	01/11/17
20	00079--B1		17011036	01/11/17
21	00080--B2		17011037	01/11/17
22	00081--B3		17011038	01/11/17
23	00082--C1		17011039	01/11/17
24	00083--C2		17011040	01/11/17
25	00084--C3		17011041	01/11/17
26	00085--J1		17011042	01/11/17
27	00086--J2		17011043	01/11/17
28	00087--J3		17011044	01/11/17
29	00088--J3A		17011045	01/11/17
30	00089--J4		17011046	01/11/17
31	00090--J4A		17011047	01/11/17
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33	00092--CJ2		17011049	01/11/17

#	Ref	Description	Drawing#	Date
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36	00095--V3		17011004	01/11/17
37	00096--V4		17011005	01/11/17
38	00097--V5		17011006	01/11/17
39	00098--V6		17011007	01/11/17
40	00099--V7		17011008	01/11/17
41	00100--V8		17011009	01/11/17
42	00101--V9		17011010	01/11/17
43	00102--V10		17011011	01/11/17
44	00103--V11		17011012	01/11/17
45	00104--V12		17011013	01/11/17
46	00105--V13		17011014	01/11/17
47	00106--V14		17011015	01/11/17
48	00107--V15		17011016	01/11/17
49	00108--V16		17011017	01/11/17
50	00109--PB1		17011050	01/11/17
51	00110--PB2		17011051	01/11/17
52	00111--PB3		17011052	01/11/17
53	00112--PB4		17011053	01/11/17



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

Notes:

- 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
- The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
- As shown on attached drawings; the drawing number is preceded by: HCUSR917

Details: BRCLBSUB-14015EC1-GBLLETIN-14030EC1-VAL16010-PB16010-

#	Ref	Description	Drawing#	Date
1	00060--A1		17011054	01/11/17
2	00061--A2		17011018	01/11/17
3	00062--A3		17011019	01/11/17
4	00063--A4		17011020	01/11/17
5	00064--A5		17011021	01/11/17
6	00065--A6		17011022	01/11/17
7	00066--A7		17011023	01/11/17
8	00067--A8		17011024	01/11/17
9	00068--A9		17011025	01/11/17
10	00069--A10		17011026	01/11/17
11	00070--A11		17011027	01/11/17
12	00071--A12		17011028	01/11/17
13	00072--A13		17011029	01/11/17
14	00073--A14		17011030	01/11/17
15	00074--A15		17011031	01/11/17
16	00075--A16		17011032	01/11/17
17	00076--A17		17011033	01/11/17
18	00077--A18		17011034	01/11/17
19	00078--A19		17011035	01/11/17
20	00079--B1		17011036	01/11/17
21	00080--B2		17011037	01/11/17
22	00081--B3		17011038	01/11/17
23	00082--C1		17011039	01/11/17
24	00083--C2		17011040	01/11/17
25	00084--C3		17011041	01/11/17
26	00085--J1		17011042	01/11/17
27	00086--J2		17011043	01/11/17
28	00087--J3		17011044	01/11/17
29	00088--J3A		17011045	01/11/17
30	00089--J4		17011046	01/11/17
31	00090--J4A		17011047	01/11/17
32	00091--CJ1		17011048	01/11/17
33	00092--CJ2		17011049	01/11/17

#	Ref	Description	Drawing#	Date
34	00093--V1		17011002	01/11/17
35	00094--V2		17011003	01/11/17
36	00095--V3		17011004	01/11/17
37	00096--V4		17011005	01/11/17
38	00097--V5		17011006	01/11/17
39	00098--V6		17011007	01/11/17
40	00099--V7		17011008	01/11/17
41	00100--V8		17011009	01/11/17
42	00101--V9		17011010	01/11/17
43	00102--V10		17011011	01/11/17
44	00103--V11		17011012	01/11/17
45	00104--V12		17011013	01/11/17
46	00105--V13		17011014	01/11/17
47	00106--V14		17011015	01/11/17
48	00107--V15		17011016	01/11/17
49	00108--V16		17011017	01/11/17
50	00109--PB1		17011050	01/11/17
51	00110--PB2		17011051	01/11/17
52	00111--PB3		17011052	01/11/17
53	00112--PB4		17011053	01/11/17



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- As shown on attached drawings; the drawing number is preceded by: HCUSR917

Details: BRCLBSUB-14015EC1-GBLLETIN-14030EC1-VAL16010-PB16010-

#	Ref	Description	Drawing#	Date
1	00060--A1		17011054	01/11/17
2	00061--A2		17011018	01/11/17
3	00062--A3		17011019	01/11/17
4	00063--A4		17011020	01/11/17
5	00064--A5		17011021	01/11/17
6	00065--A6		17011022	01/11/17
7	00066--A7		17011023	01/11/17
8	00067--A8		17011024	01/11/17
9	00068--A9		17011025	01/11/17
10	00069--A10		17011026	01/11/17
11	00070--A11		17011027	01/11/17
12	00071--A12		17011028	01/11/17
13	00072--A13		17011029	01/11/17
14	00073--A14		17011030	01/11/17
15	00074--A15		17011031	01/11/17
16	00075--A16		17011032	01/11/17
17	00076--A17		17011033	01/11/17
18	00077--A18		17011034	01/11/17
19	00078--A19		17011035	01/11/17
20	00079--B1		17011036	01/11/17
21	00080--B2		17011037	01/11/17
22	00081--B3		17011038	01/11/17
23	00082--C1		17011039	01/11/17
24	00083--C2		17011040	01/11/17
25	00084--C3		17011041	01/11/17
26	00085--J1		17011042	01/11/17
27	00086--J2		17011043	01/11/17
28	00087--J3		17011044	01/11/17
29	00088--J3A		17011045	01/11/17
30	00089--J4		17011046	01/11/17
31	00090--J4A		17011047	01/11/17
32	00091--CJ1		17011048	01/11/17
33	00092--CJ2		17011049	01/11/17

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3 :W1 2x4 SP M-30:

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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=3.0 psf. GCpi (+/-)=0.18

Deflection meets L/360 live and L/240 total load. Creep increase
 factor for dead load is 1.50.

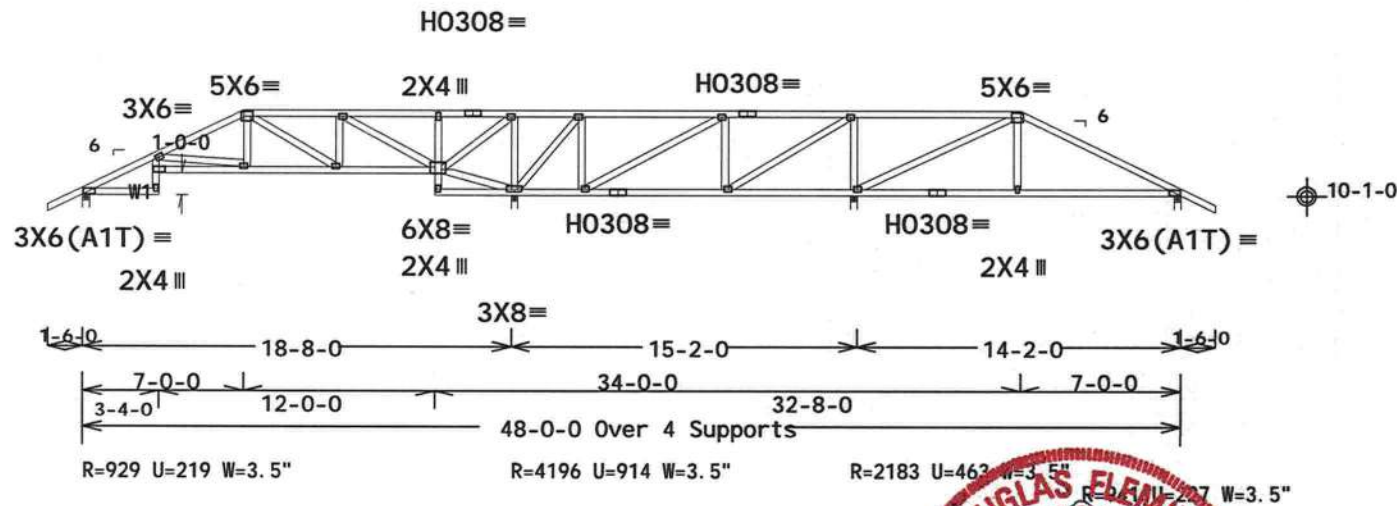
2 COMPLETE TRUSSES REQUIRED

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

Wind loads and reactions based on MWFRS.

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

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.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

PLT TYP. 20 Gauge HS, Wave

15 01.00.0226.13 QTY 1 FL/-/2/-/-/R/-

Scale = .125"/Ft.



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 Orlando, FL 32837
 FL COA #0278

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



TC LL	20.0 PSF	REF R917-- 60
★ TC DL	10.0 PSF	DATE 01/11/17
★ BC DL	10.0 PSF	DRW HCUSR917 17011054
★ FC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298757
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30

Bot chord 2x4 SP M-30

Webs 2x4 SP #3 :W1 2x4 SP M-30:

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Top Chord overhang(s) may be field trimmed.

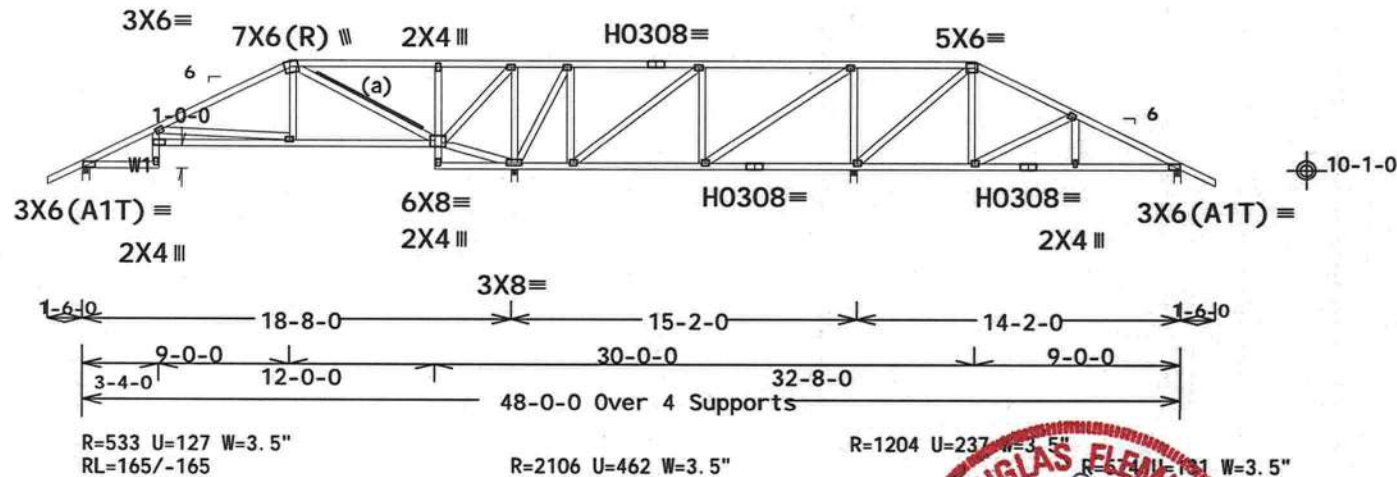
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

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



Note: All Plates Are 3x4 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS, Wave

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

15 01.00.0226.13

QTY 1

FL/-/2/-/-/R/-

Scale = .125"/Ft.

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FL COA #0278

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



TC LL	20.0 PSF	REF R917-- 61
★ TC DL	10.0 PSF	DATE 01/11/17
★ BC DL	10.0 PSF	DRW HCUSR917 17011018
★ CC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298759
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30

Bot chord 2x4 SP M-30

Webs 2x4 SP #3 :W1 2x4 SP #2:

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Top Chord overhang(s) may be field trimmed.

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

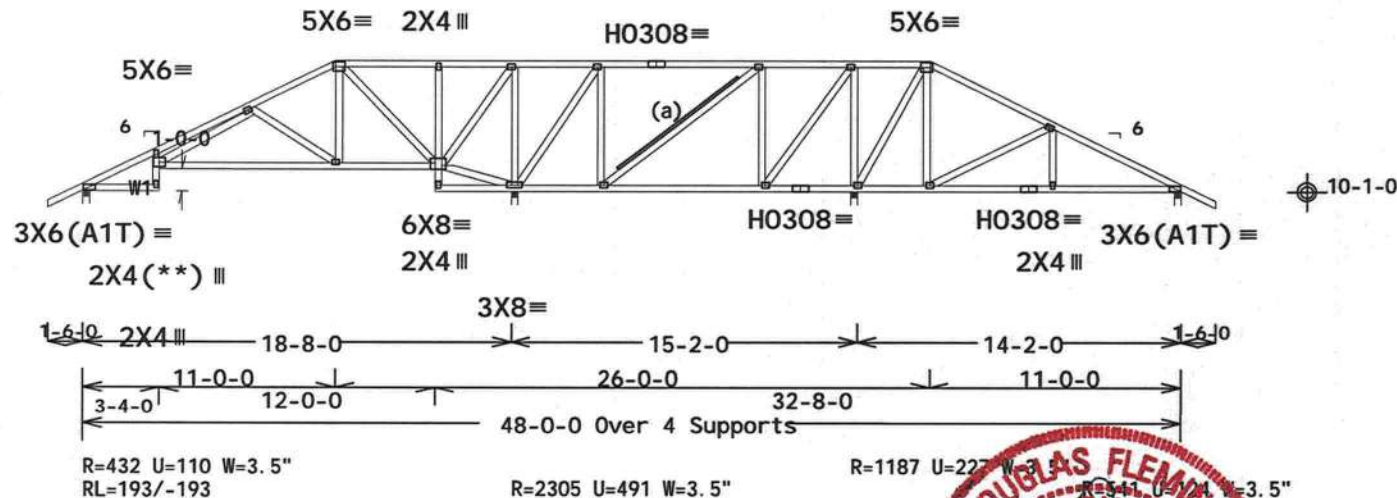
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

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

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)

PLT TYP. 20 Gauge HS, Wave

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

15.01.00.0220.11.06.04

FL/-/2/-/-/R/-

Scale = .125"/Ft.

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Orlando, FL 32837
FL COA #0 278

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



TC LL	20.0 PSF	REF R917-- 62
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011019
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298761
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

(b) 2x4 #3 or better "T" reinforcement. 80% length of web member.
Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Top Chord overhang(s) may be field trimmed.

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

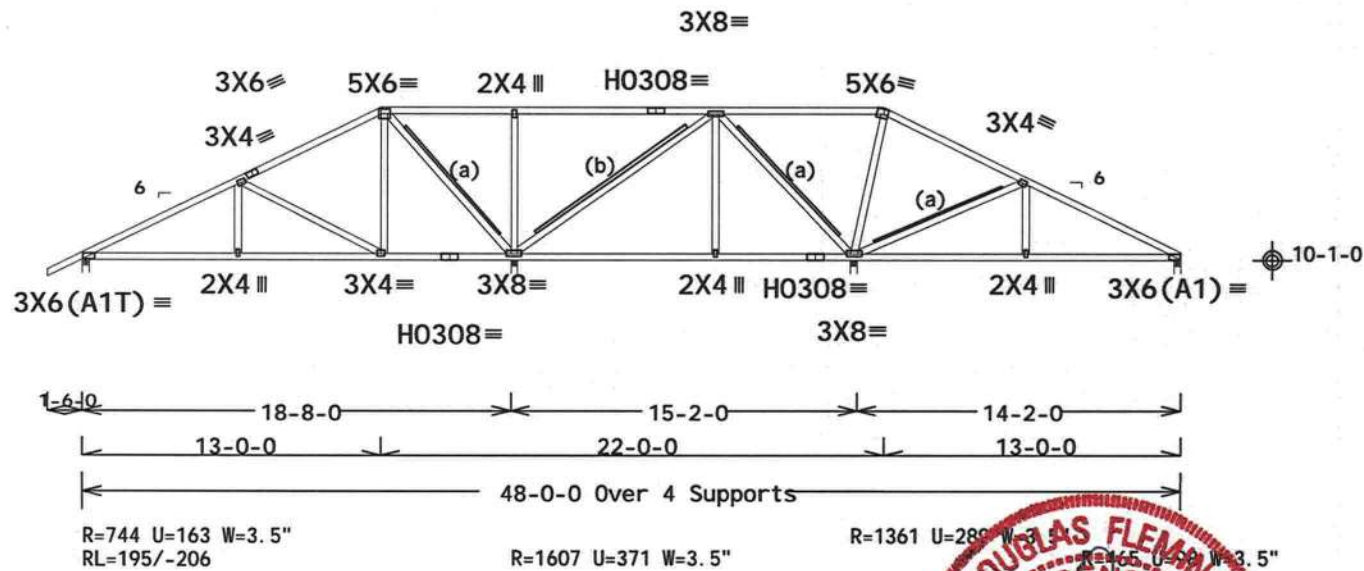
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

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

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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.



PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0225.11.06649TY.1 FL/-/2/-/-/R/-

Scale = .125"/Ft.



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

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TC DL	20.0 PSF	REF R917-- 63
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011020
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298763
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Top Chord overhang(s) may be field trimmed.



Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

(b) 2x4 #3 or better "T" reinforcement. 80% length of web member.
Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

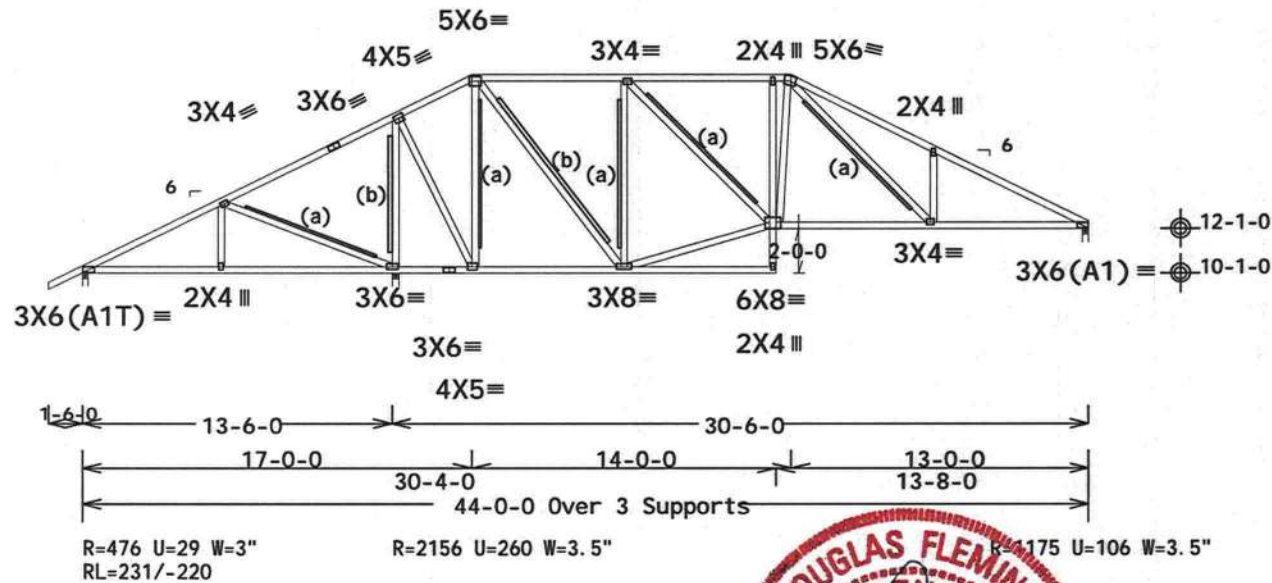
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

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

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

Top Chord overhang(s) may be field trimmed.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0225.11/01/2017

FL/-/2/-/-/R/-

Scale = .125"/Ft.



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FL COA #0278

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TC LL	20.0 PSF	REF R917-- 65
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011022
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298771
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30

Bot chord 2x4 SP M-30

Webs 2x4 SP #3 :W13 2x4 SP M-30:

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

(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.

Top Chord overhang(s) may be field trimmed.

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

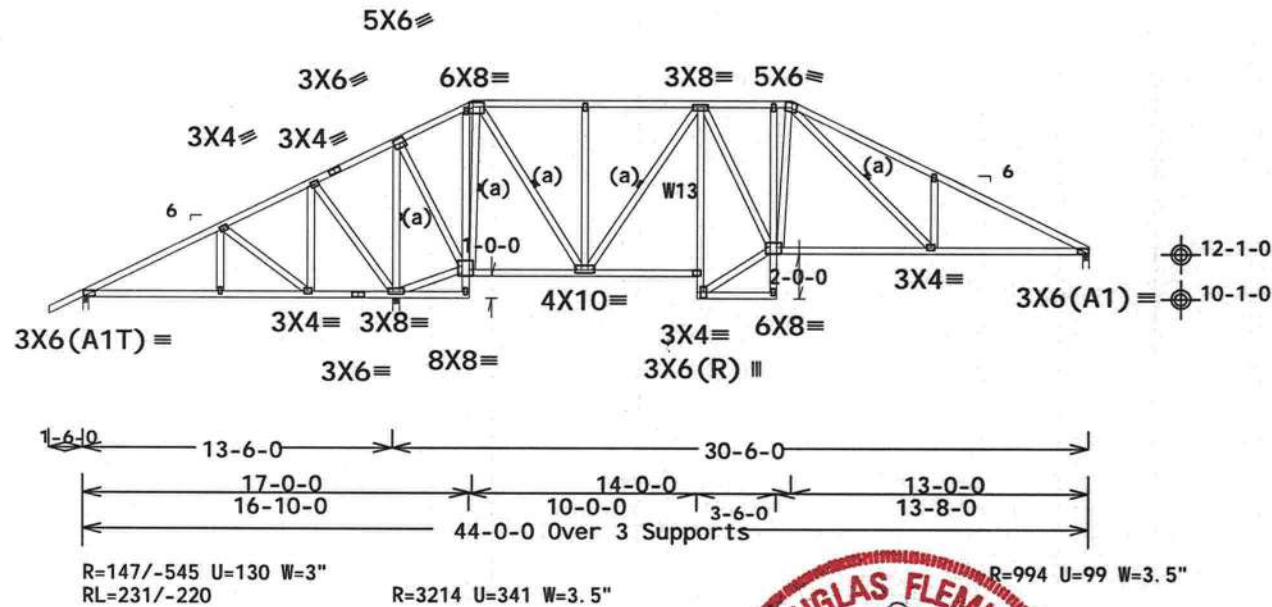
Negative reaction(s) of -545# MAX. (See below) from a non-wind load case requires uplift connection.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

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

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)

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

PLT TYP. Wave

15 01.00.0226.11

QTY 3

FL/-/2/-/-/R/-

Scale = .125"/Ft.


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

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



TC LL	20.0 PSF	REF R917-- 66
★ TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011023
FC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298776
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Negative reaction(s) of -334# MAX. (See below) from a non-wind load case requires uplift connection.

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

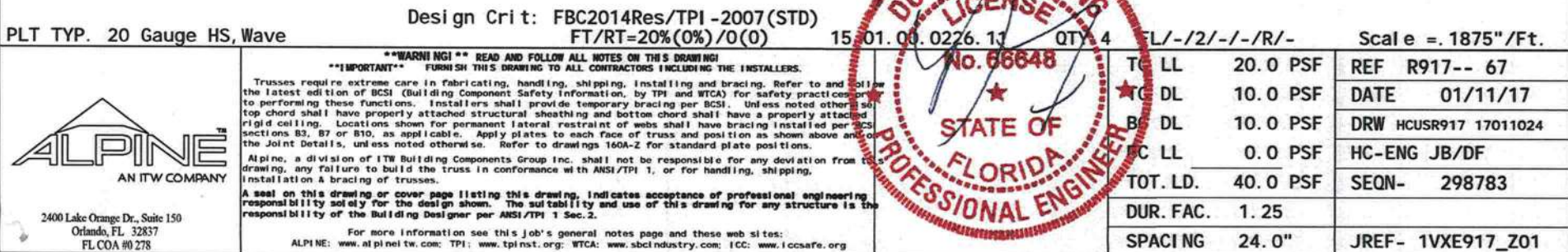
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0
psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

Top Chord overhang(s) may be field trimmed.

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



Negative reaction(s) of -309# MAX. (See below) from a non-wind load case requires uplift connection.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0
psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

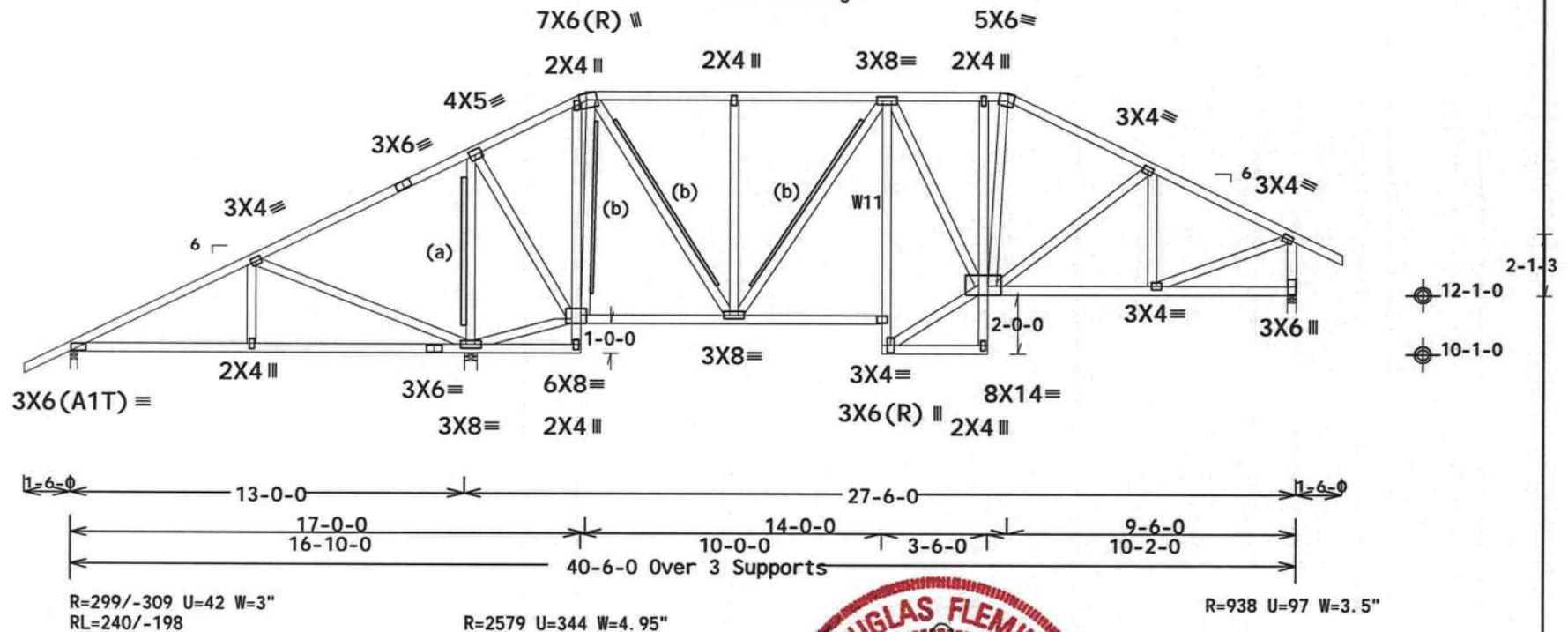
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

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

Top Chord overhang(s) may be field trimmed.

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

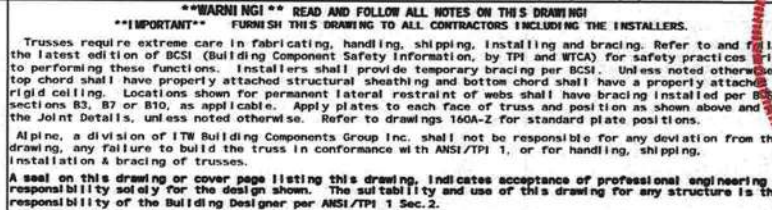


Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00 0226.11 QTY:

PL/-/2/-/-/R/-

Scale = .1875" / Ft.



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

TC LL	20.0 PSF	REF R917-- 68
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011025
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298789
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917 Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

Top Chord overhang(s) may be field trimmed.

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

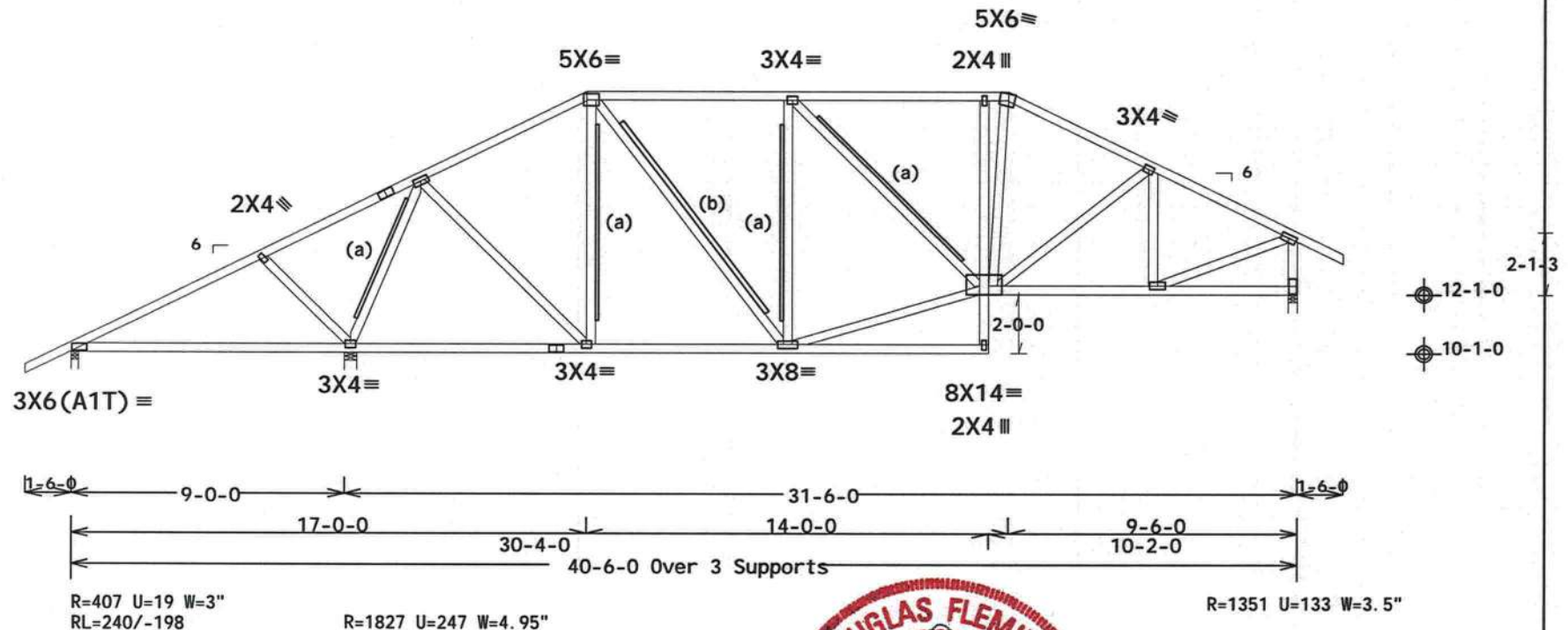
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

(b) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 3X6 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)

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

PLT TYP. Wave

15.01.00.0226.11

QTY:1

L/-/2/-/-/R/-

Scale = .1875"/Ft.



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FL COA #0278

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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TOT. LL	20.0 PSF	REF R917-- 70
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011027
FC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298830
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top	chord	2x4	SP	M-30
Bot	chord	2x4	SP	M-30
	Webs	2x4	SP	#3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

Top Chord overhang(s) may be field trimmed.

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

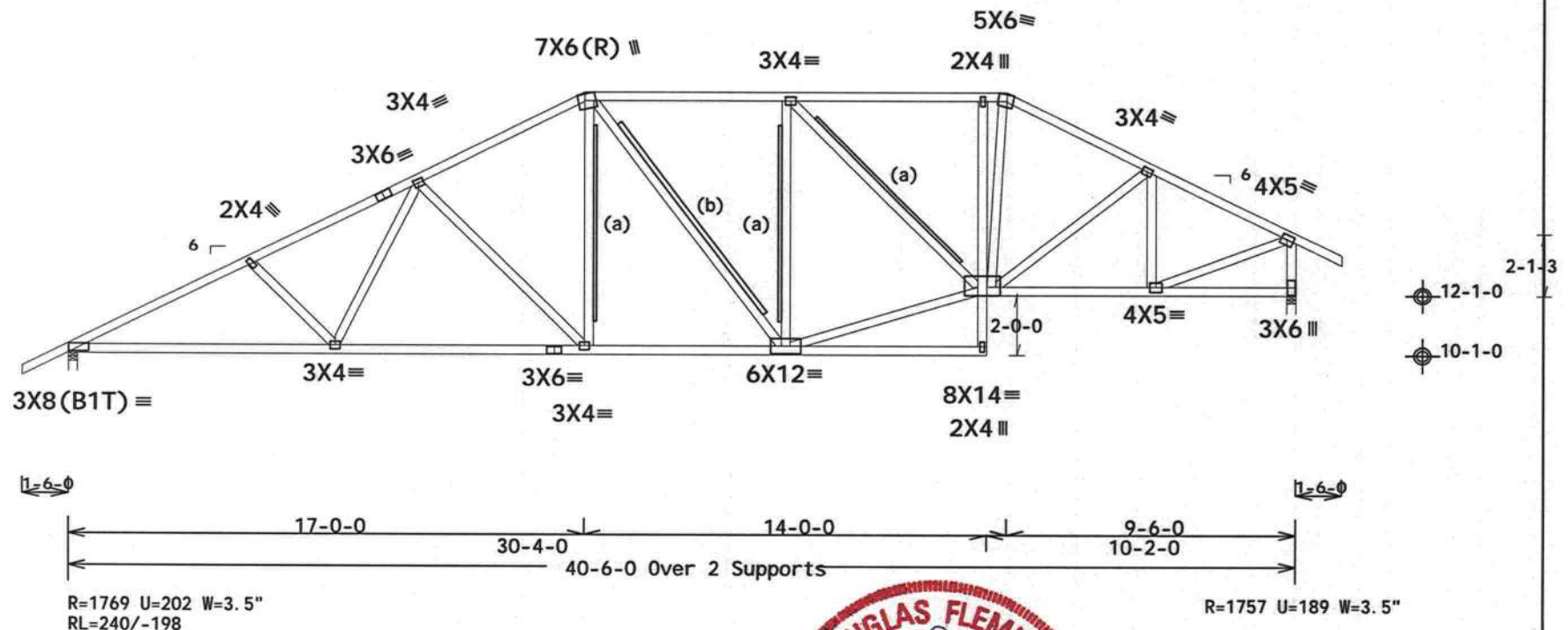
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

(b) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.09.0226.1

11-12-1-1R-

Scale = .1875" / Ft.



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FL COA #0 278

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TO	LL	20.0	PSF
★ TC	DL	10.0	PSF
BO	DL	10.0	PSF
EC	LL	0.0	PSF
TOT. LD.		40.0	PSF
DUR. FAC.		1.25	
SPACING		24.0"	

REF	R917-- 71
DATE	01/11/17
DRW	HCUSR917 17011028
HC-ENG	JB/DF
SEQN-	298834
JREF-	1VXE917 Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

(b) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

*** Negative reaction(s) of -502# MAX. (See below) from a non-wind load case requires uplift connection.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

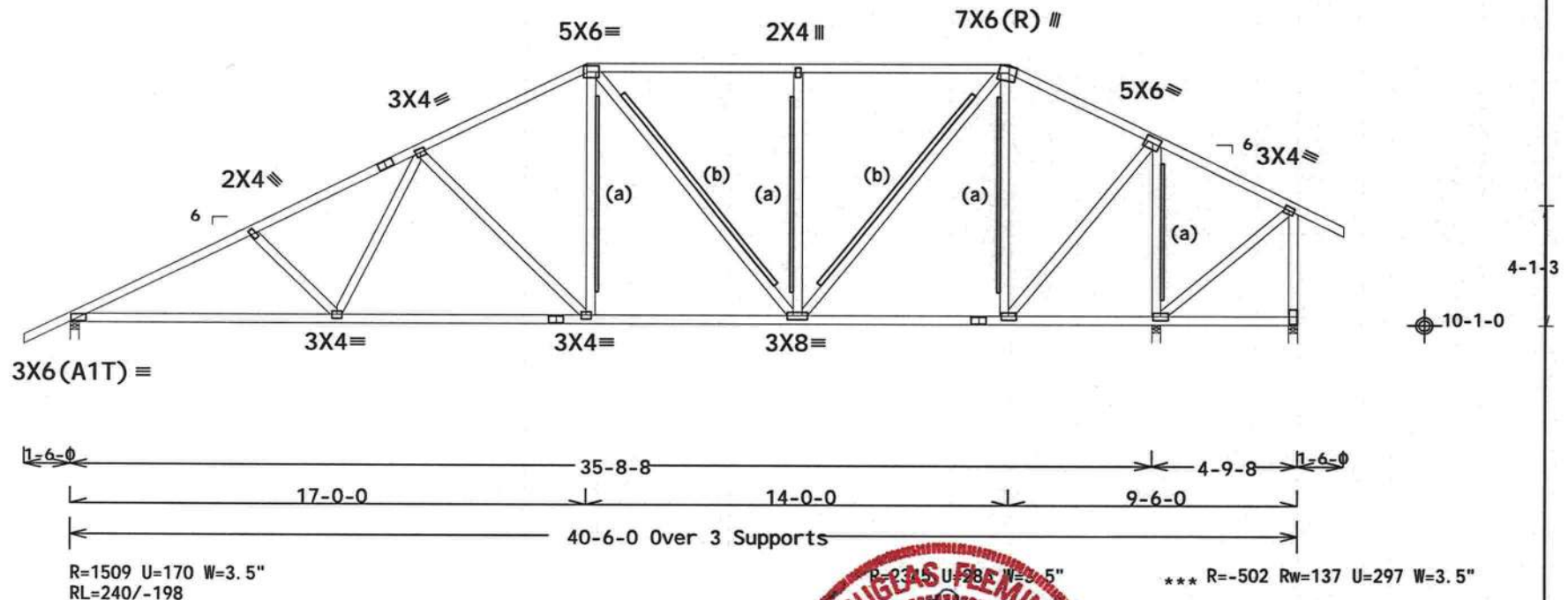
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

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

Top Chord overhang(s) may be field trimmed.

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



Note: All Plates Are 3X6 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)

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

PLT TYP. Wave



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FL COA #0278

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	F / - / 2 / - / - / R / -	Scale = .1875" / Ft.
TC LL	20.0 PSF	REF R917-- 72
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011029
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298838
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Right cantilever is exposed to wind

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

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

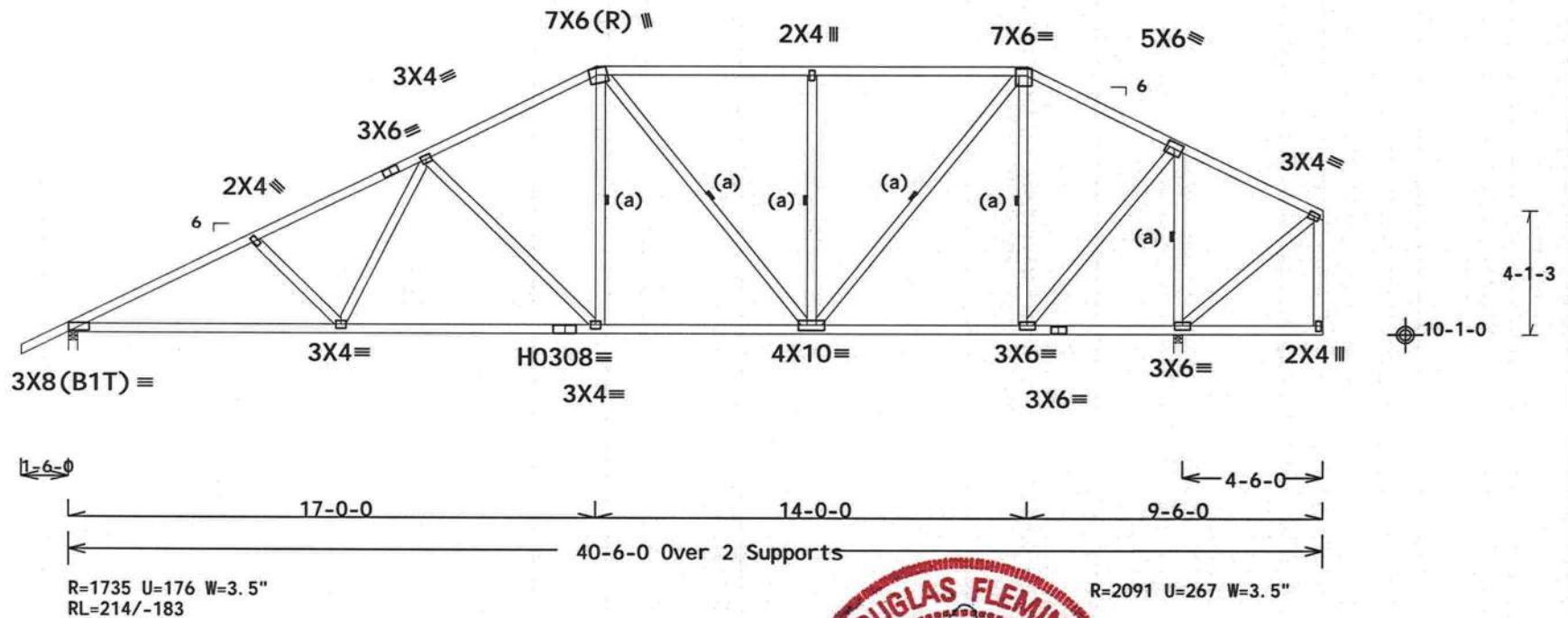
Right end vertical not exposed to wind pressure.

(a) Continuous lateral restraint equally spaced on member.

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

Top Chord overhang(s) may be field trimmed.

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



PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0225.11.00 QTY: 3

F / - / 2 / - / - / R / -

Scale = .1875" / Ft.



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



TC LL	20.0 PSF	REF R917-- 73
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011030
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298875
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Right cantilever is exposed to wind

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

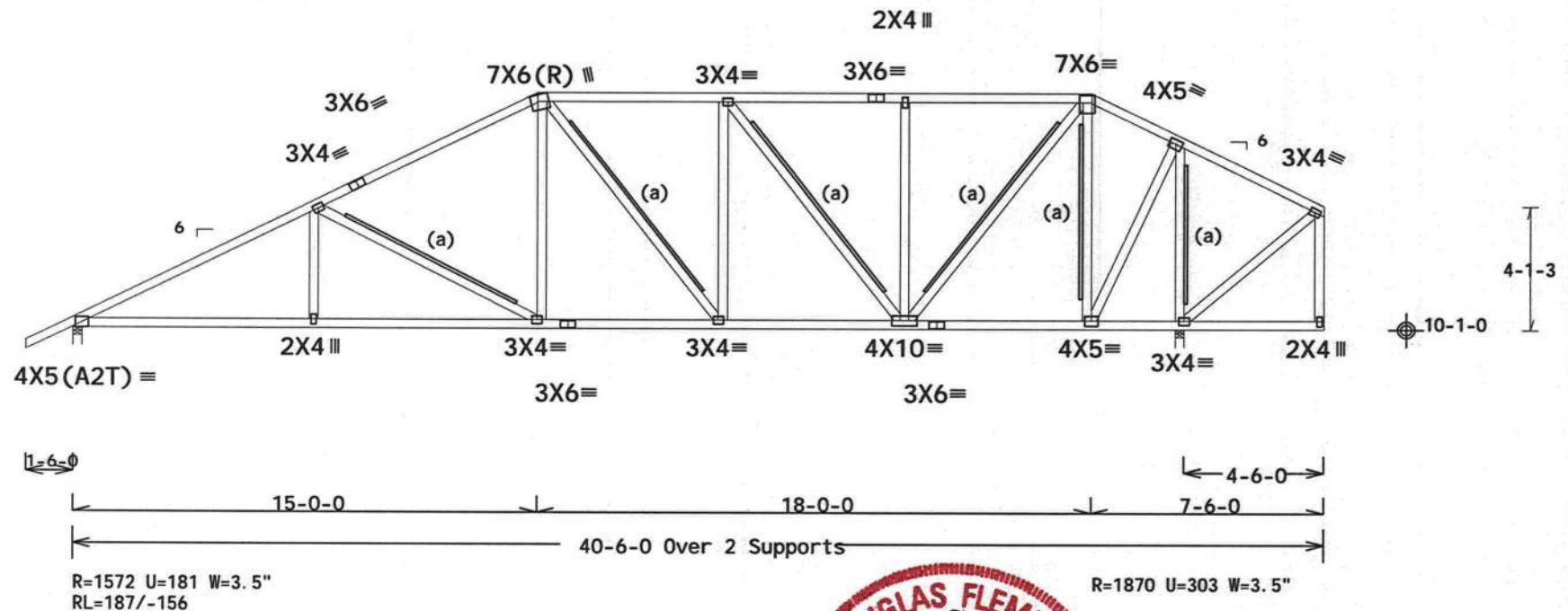
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Top Chord overhang(s) may be field trimmed.

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



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15 01.00.0226.11 QTY 1

FL/-/2/-/-/R/-

Scale = .1875"/Ft.



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Orlando, FL 32837
FL COA #0278

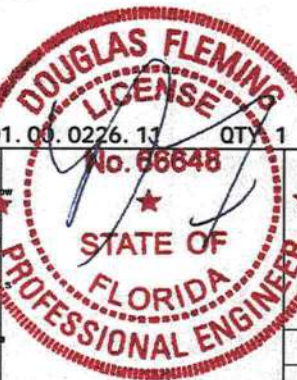
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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 74
★ TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011031
FC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298873
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Right cantilever is exposed to wind

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

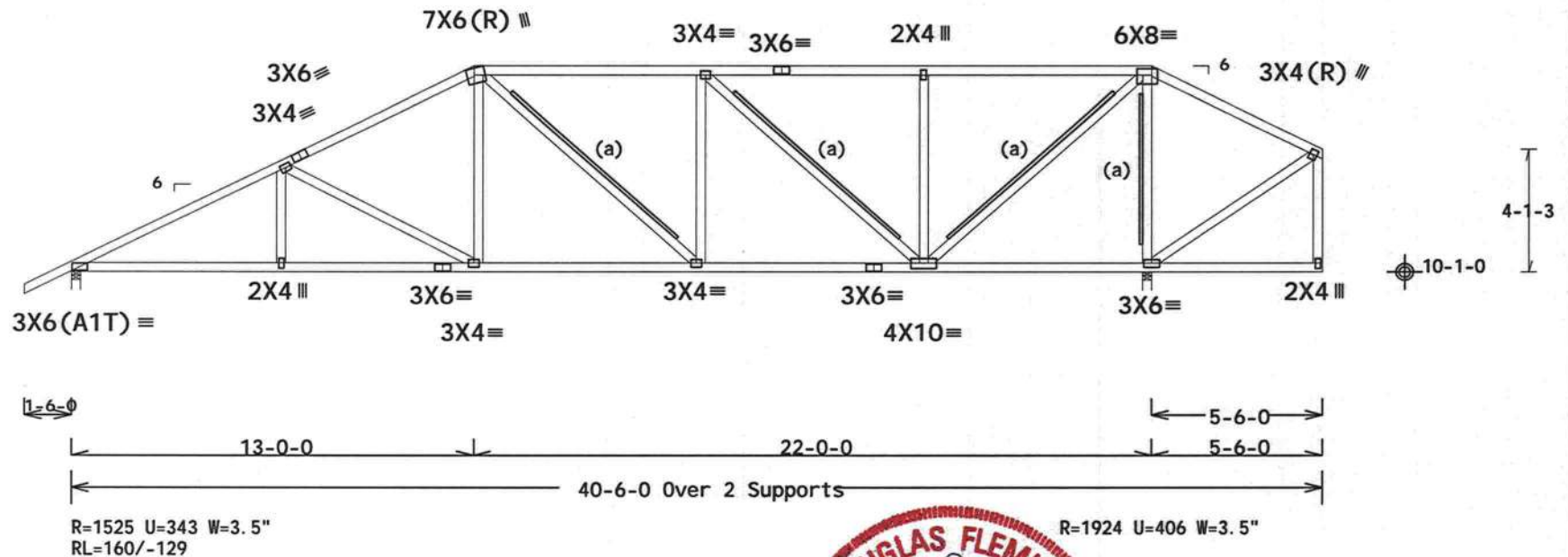
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Top Chord overhang(s) may be field trimmed.

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



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0226.11 QTY 1

FL/-/2/-/-/R/-

Scale = .1875"/Ft.



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



TC LL	20.0 PSF	REF R917-- 75
★ TC DL	10.0 PSF	DATE 01/11/17
★ BC DL	10.0 PSF	DRW HCUSR917 17011032
★ EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298871
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Right cantilever is exposed to wind

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

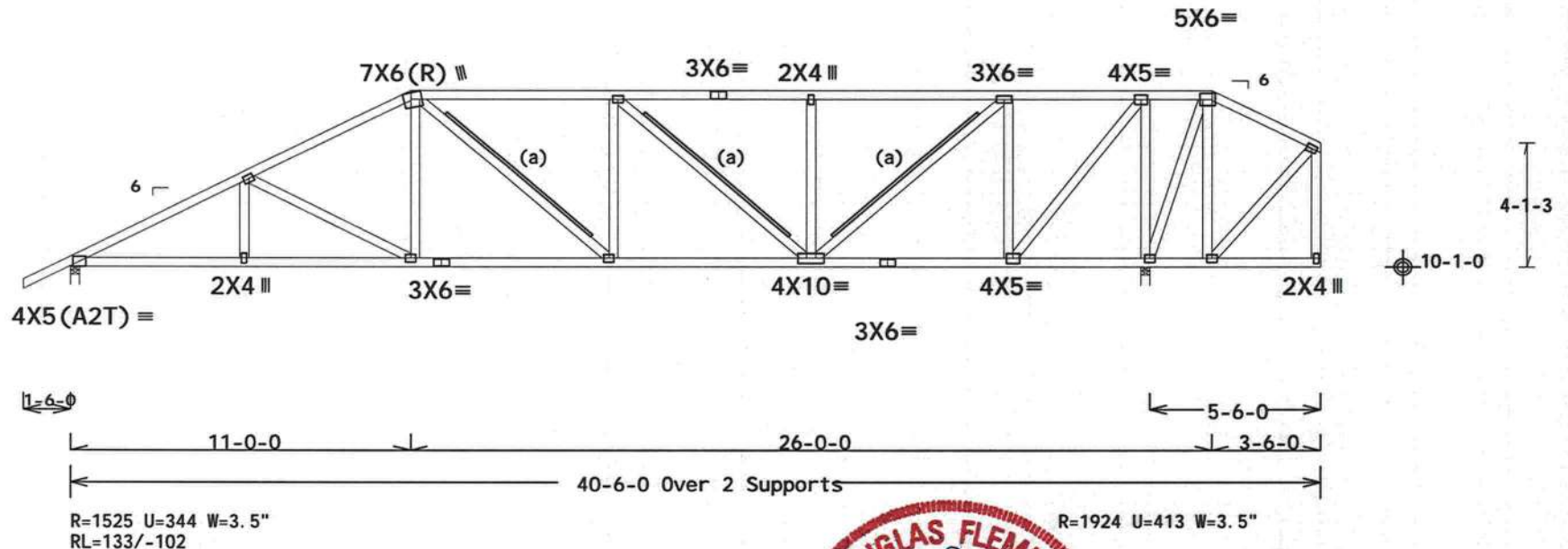
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Top Chord overhang(s) may be field trimmed.

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: FBC2014Res/TPI -2007(STD)

PLT TYP. Wave

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

15 01.00.0226.13

QTY 1

FL/-/2/-/-/R/-

Scale = .1875"/Ft.



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



TC LL	20.0 PSF	REF R917-- 76
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011033
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298868
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Right cantilever is exposed to wind

(b) 2x6 #3 or better "T" reinforcement. 80% length of web member.
Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

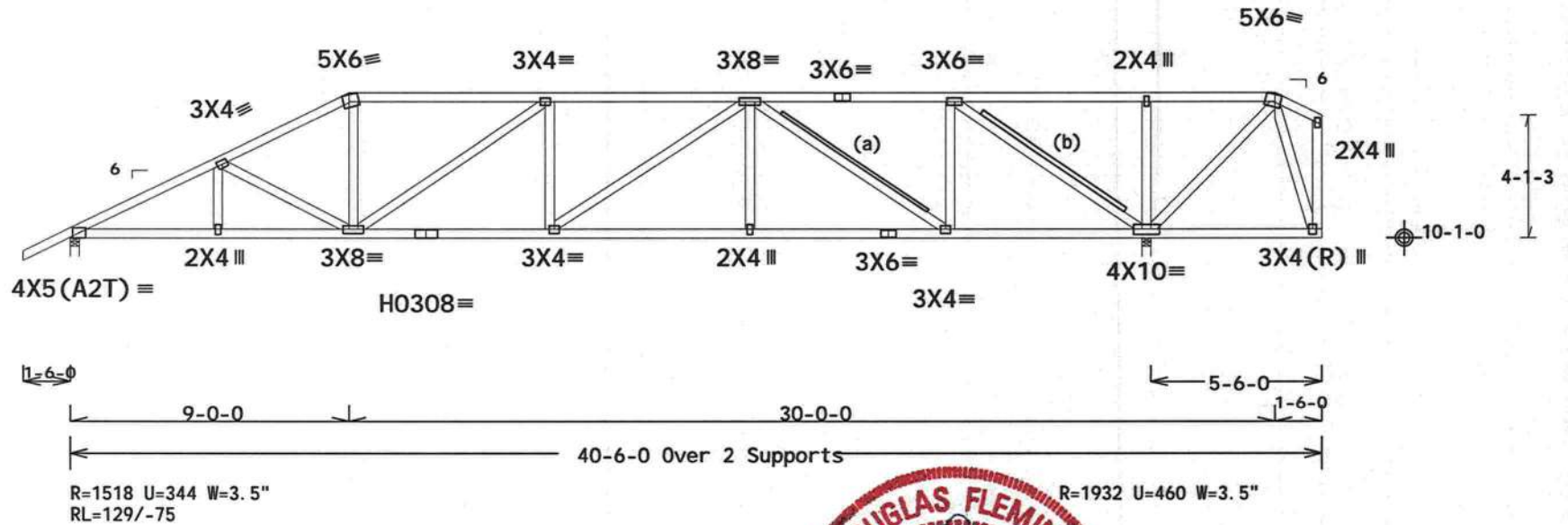
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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

Top Chord overhang(s) may be field trimmed.



PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2014Res/TPI -2007(STD)

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

15.01.00.0226.11

QTY: 1

LL/-/2/-/-/R/-

Scale = .1875"/Ft.



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



R=1932 U=460 W=3.5"

LL/-/2/-/-/R/-

TC LL 20.0 PSF

TC DL 10.0 PSF

BC DL 10.0 PSF

BC LL 0.0 PSF

TOT. LD. 40.0 PSF

DUR. FAC. 1.25

SPACING 24.0"

REF R917-- 77

DATE 01/11/17

DRW HCUSR917 17011034

HC-ENG JB/DF

SEQN- 298866

JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3 : W11 2x4 SP #2:

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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=3.0 psf. GCpi (+/-)=0.18

Right cantilever is exposed to wind

Deflection meets L/360 live and L/240 total load. Creep increase
 factor for dead load is 1.50.

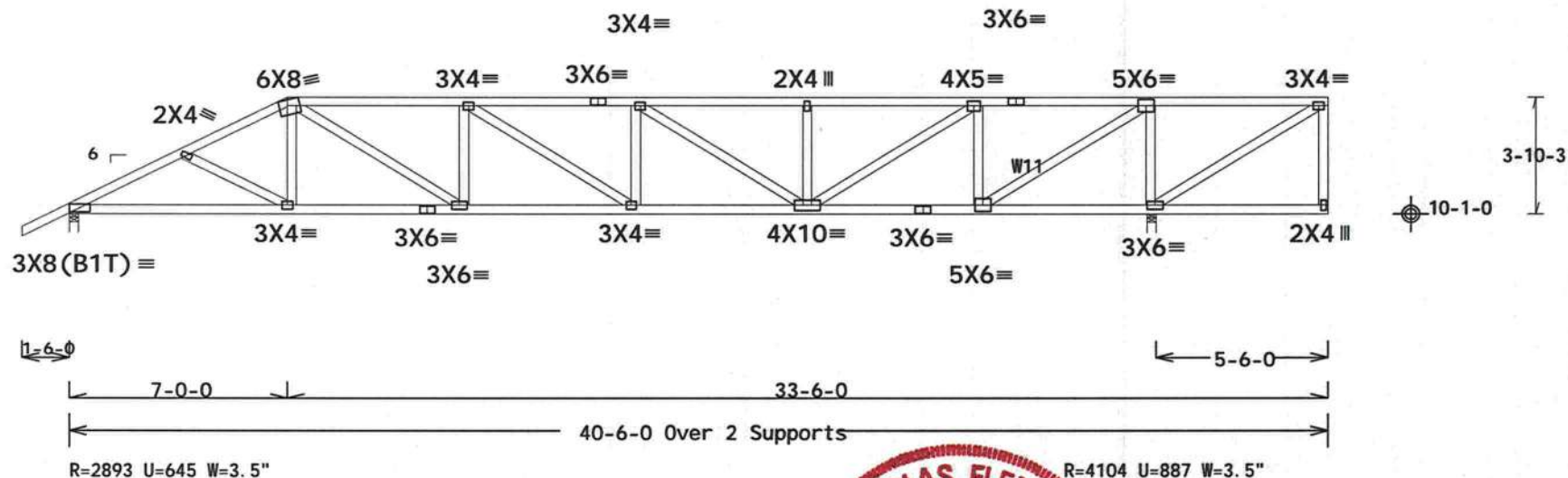
2 COMPLETE TRUSSES REQUIRED

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

Wind loads and reactions based on MWFRS.

Right end vertical not exposed to wind pressure.

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



PLT TYP. Wave

Design Crit: FBC2014Res/TPI -2007(STD)
 FT/RT=20%(0%)/0(0)

15.01.00.0226.11 QTY: 1

L/-/2/-/-/R/-

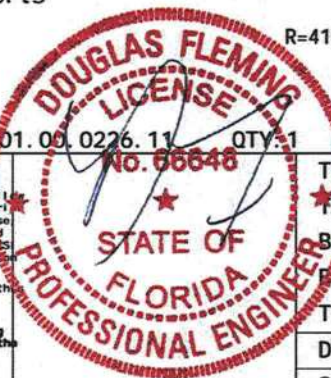
Scale = .1875"/Ft.



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



TO LL	20.0 PSF	REF R917-- 78
FC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011035
FC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298877
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30

Bot chord 2x4 SP M-30

Webs 2x4 SP #3

: Stack Chord SC1 2x4 SP M-30:: Stack Chord SC2 2x4 SP M-30:

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Truss designed to support 2-0-0 top chord outlookers and cladding load not to exceed 10.00 PSF one face and 24.0" span opposite face. Top chord must not be cut or notched.

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

Top Chord overhang(s) may be field trimmed.

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

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=3.0 psf. GCPI (+/-)=0.18

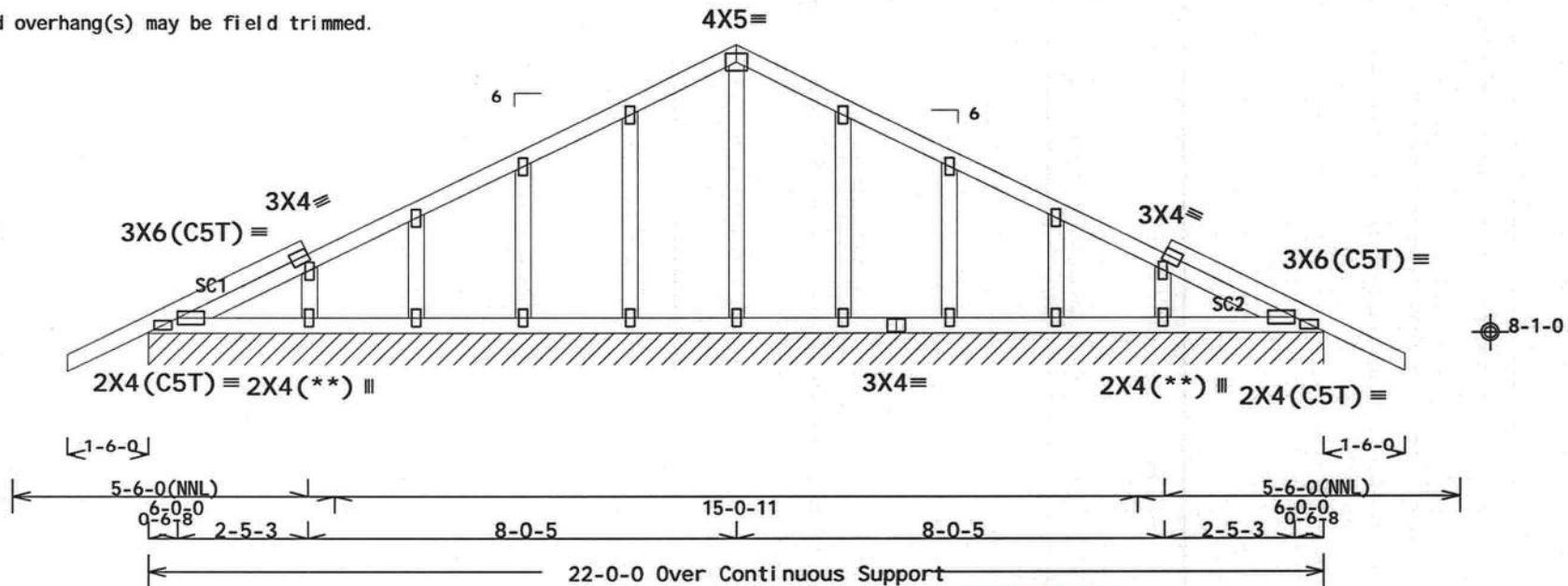
Wind loads and reactions based on MWFRS with additional C&C member design.

See DWGS A14015ENC101014 & GBLLETIN1014 for gable wind bracing requirements.

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

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



R=183 PLF U=39 PLF W=22-0-0

RL=16/-16 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)

PLT TYP. Wave

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

15 01.00.0226.11

QTY: 1

TL/-/2/-/-/R/-

Scale = .3125"/Ft.



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



TC LL	20.0 PSF	REF R917-- 79
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011036
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298727
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

Truss designed for sleeping room only. No waterbeds permitted. Provide information to contractor, architect, and bldg owner. Trusses to be visibly stamped to indicate 30.00 psf MAX LL.

Top Chord overhang(s) may be field trimmed.

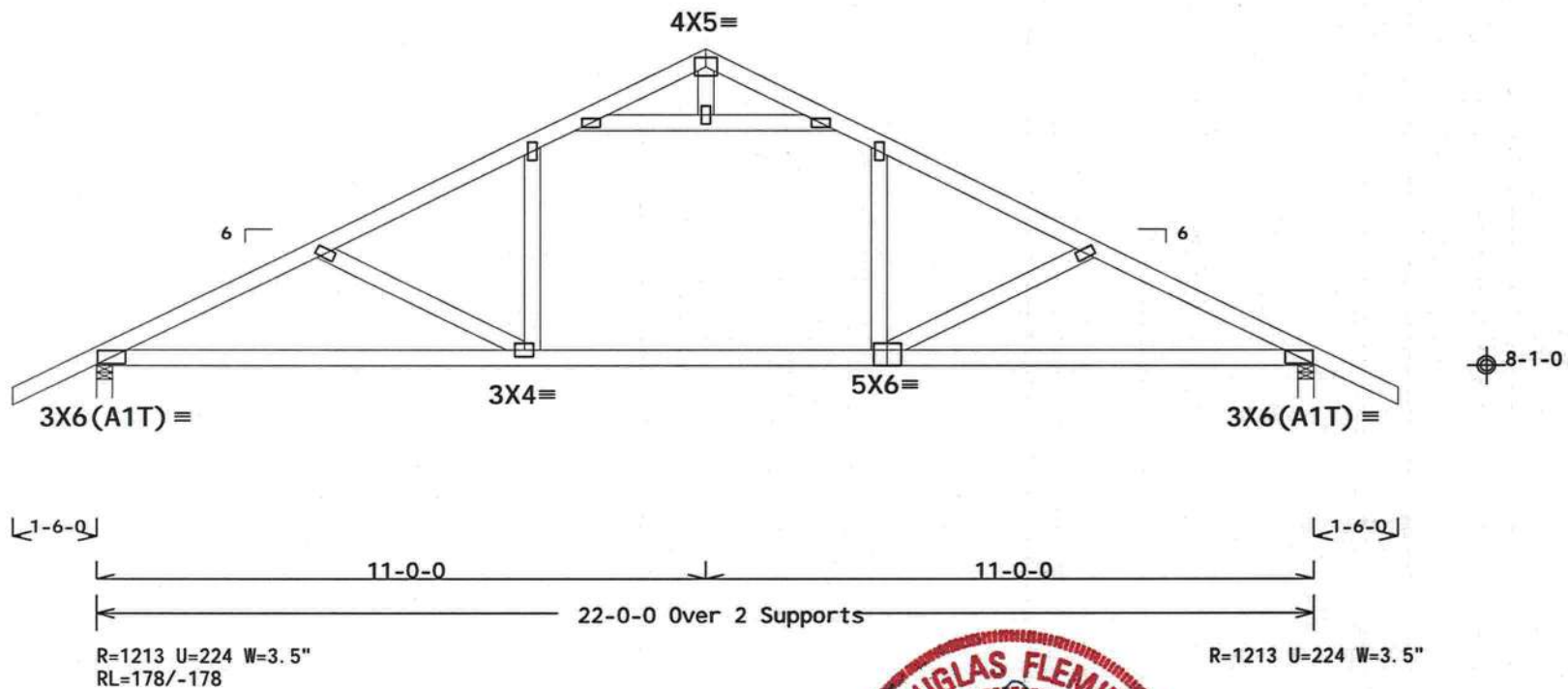
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

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

Attic room loading from 8-0-0 to 14-0-0: Live Load: 30 PSF. Dead Load: 5 PSF Ceiling: 0 PSF, Kneewalls: 0 PSF

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

PLT TYP. Wave

15 01.00.0226.11 QTY:1

L/-/2/-/-/R/-

Scale = .3125"/Ft.



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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 80
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011037
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298732
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

Truss designed for sleeping room only. No waterbeds permitted. Provide information to contractor, architect, and bldg owner. Trusses to be visibly stamped to indicate 30.00 psf MAX LL.

Top Chord overhang(s) may be field trimmed.

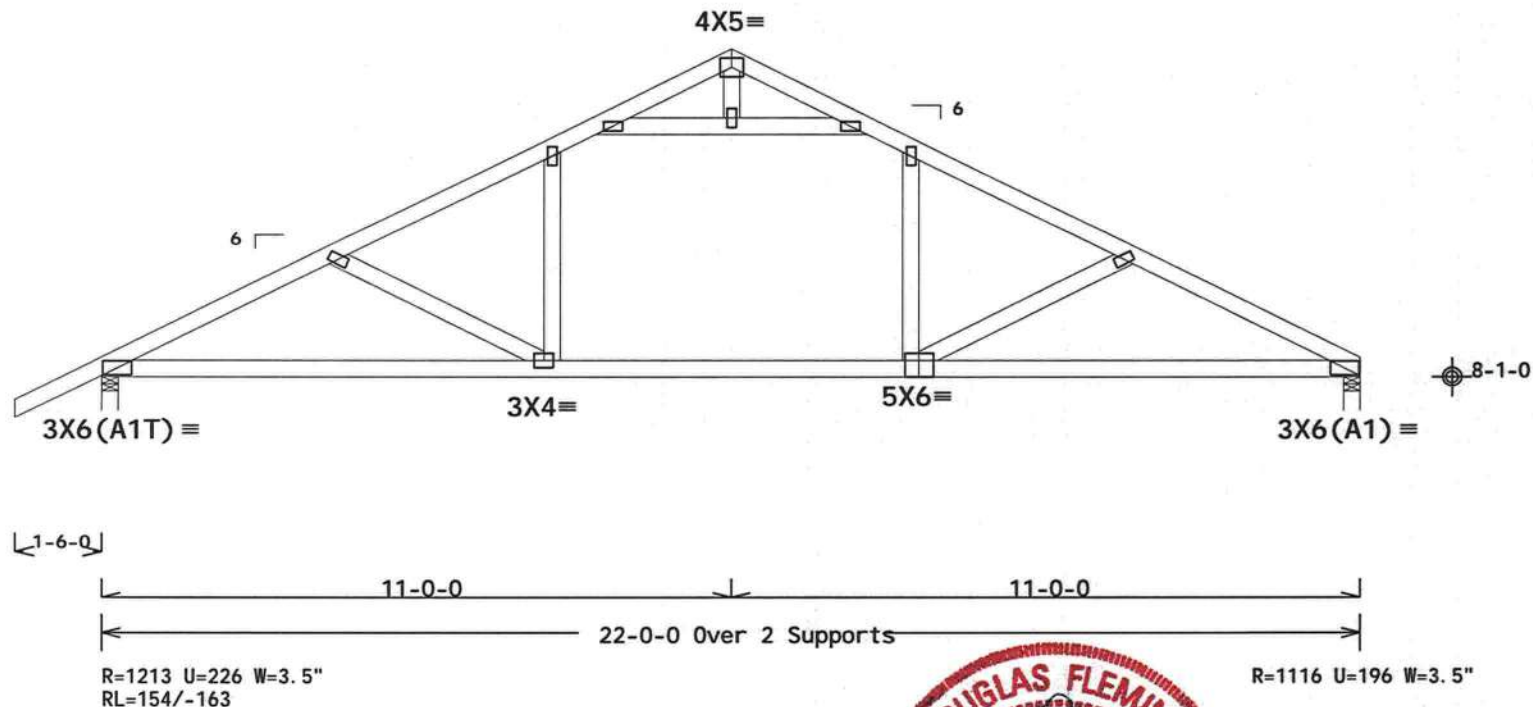
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=0.18

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

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

Attic room loading from 8-0-0 to 14-0-0: Live Load: 30 PSF. Dead Load: 5 PSF Ceiling: 0 PSF, Kneewalls: 0 PSF

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2014Res/TPI -2007(STD)
FT/RT=20%(0%)/0(0)

PLT TYP. Wave

15.01.00.0226.11 QTY: 3 F / - / 2 / - / - / R / -

Scale = .3125" / Ft.



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



TC LL	20.0 PSF	REF R917-- 81
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011038
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298735
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

TC LL	20.0 PSF	REF R917-- 82
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011039
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298796
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917 Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

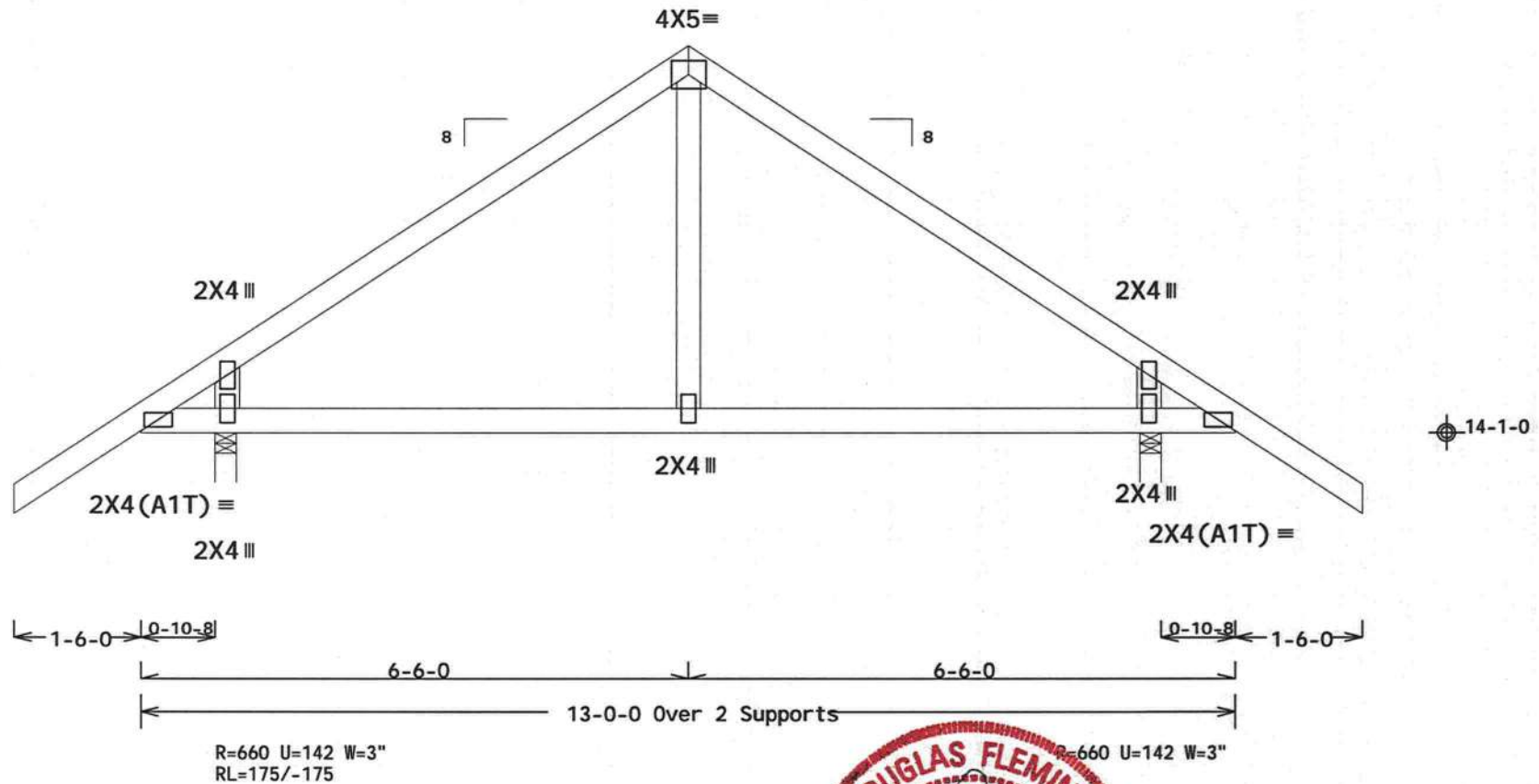
Top Chord overhang(s) may be field trimmed.

130 mph wind, 16.12 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=3.0 psf. GCpi (+/-)=0.18

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

Left and right cantilevers are exposed to wind

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI -2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0226.11-00 QTY: 1 F / - / 2 / - / - / R / -

Scale = .5" / Ft.



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TC LL	20.0 PSF	REF R917-- 83
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011040
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298798
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

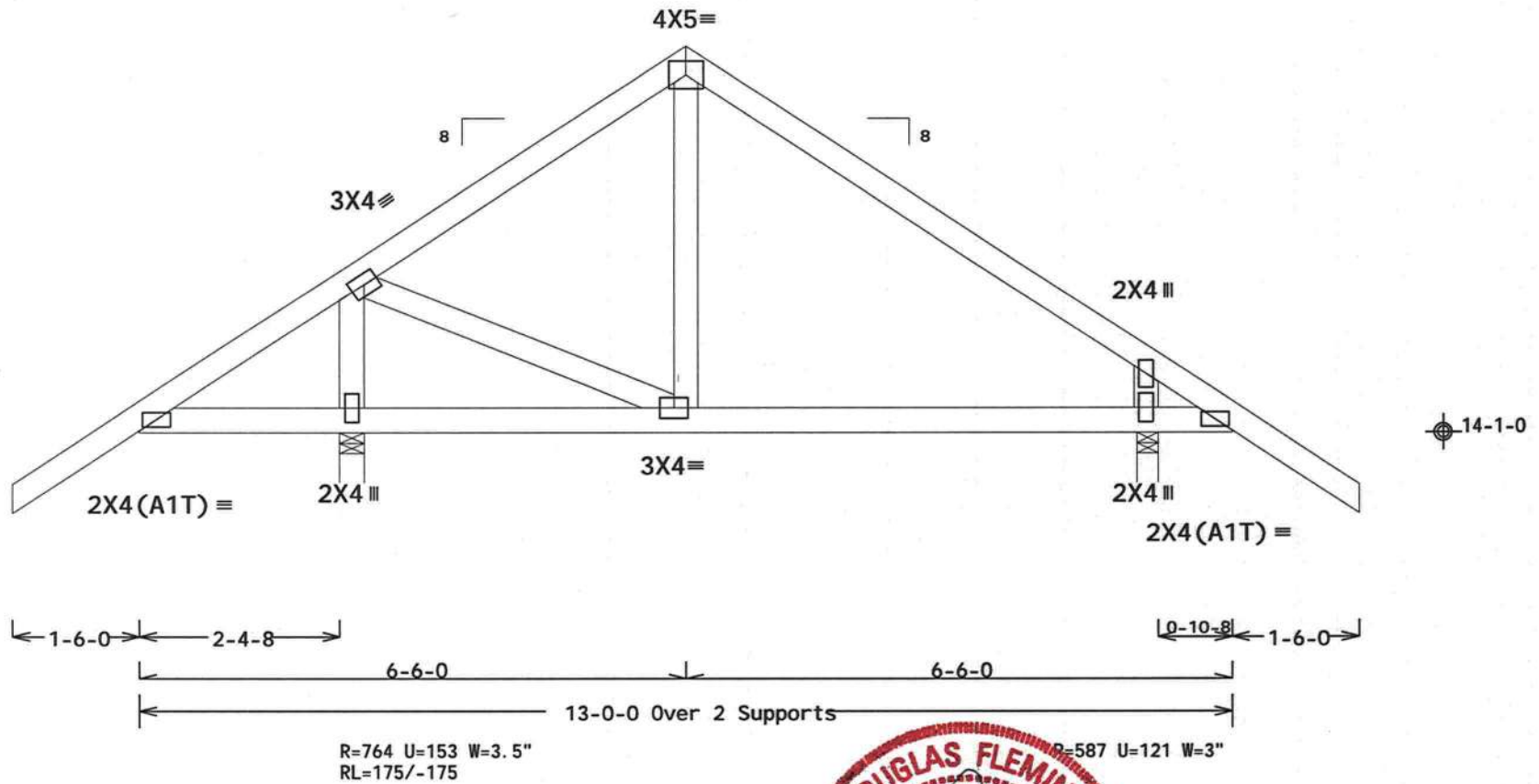
Top Chord overhang(s) may be field trimmed.

130 mph wind, 16.12 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=3.0 psf. GCpl (+/-)=0.18

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

Left and right cantilevers are exposed to wind

Deflection meets L/360 live and L/240 total load. Creep increase
 factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0)/0(0)

15.01.00 0226.11 QTY: 2

L/-/2/-/R/-

Scale = .5"/Ft.



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

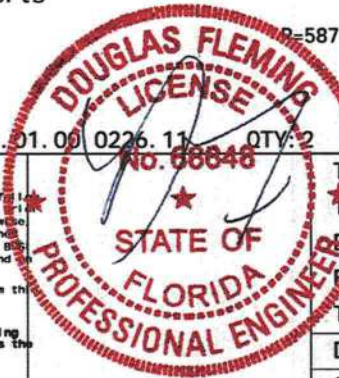
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For more information see this job's general notes page and these web sites:
 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 84
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011041
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298802
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

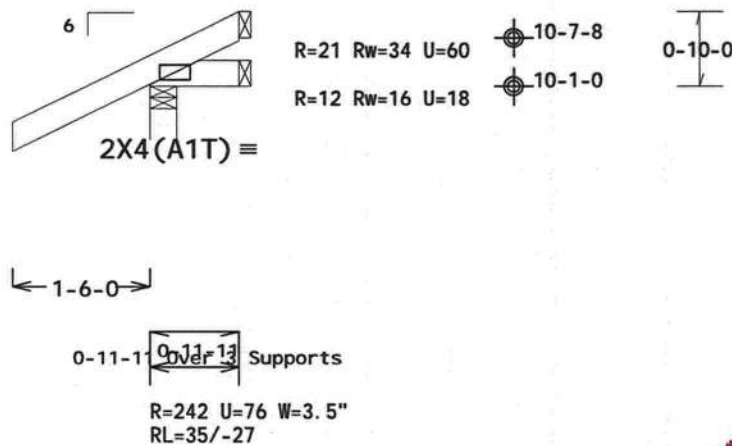
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

Top Chord overhang(s) may be field trimmed.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI -2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00 0226.11 QTY: 6

1/-/2/-/1-/R/-

Scale = .5"/Ft.



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Orlando, FL 32837
FL COA #0278

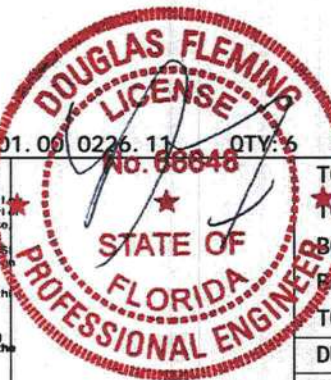
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ALPINE: www.alpinesetw.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 85
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011042
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298737
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

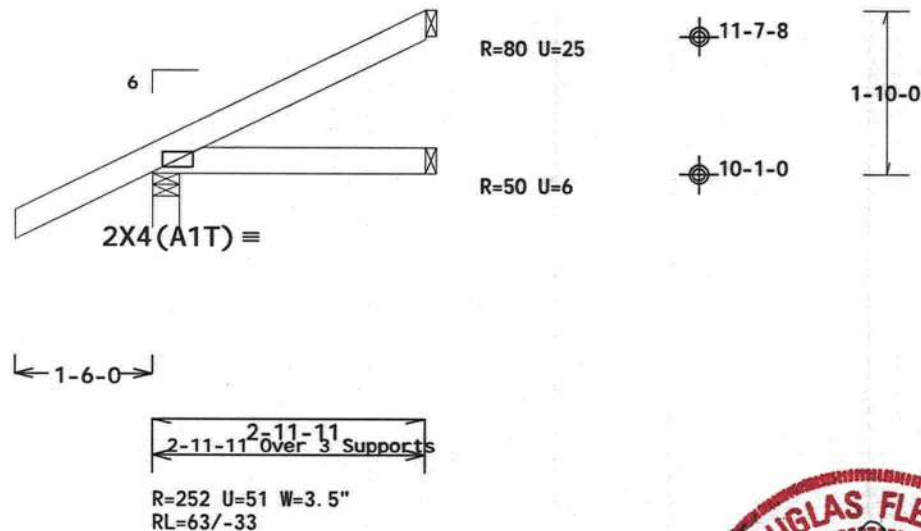
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

Top Chord overhang(s) may be field trimmed.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00 0226.11 QTY: 6

1/-/2/-/-/R/-

Scale = .5"/Ft.



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TC LL	20.0 PSF	REF R917-- 86
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011043
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298739
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

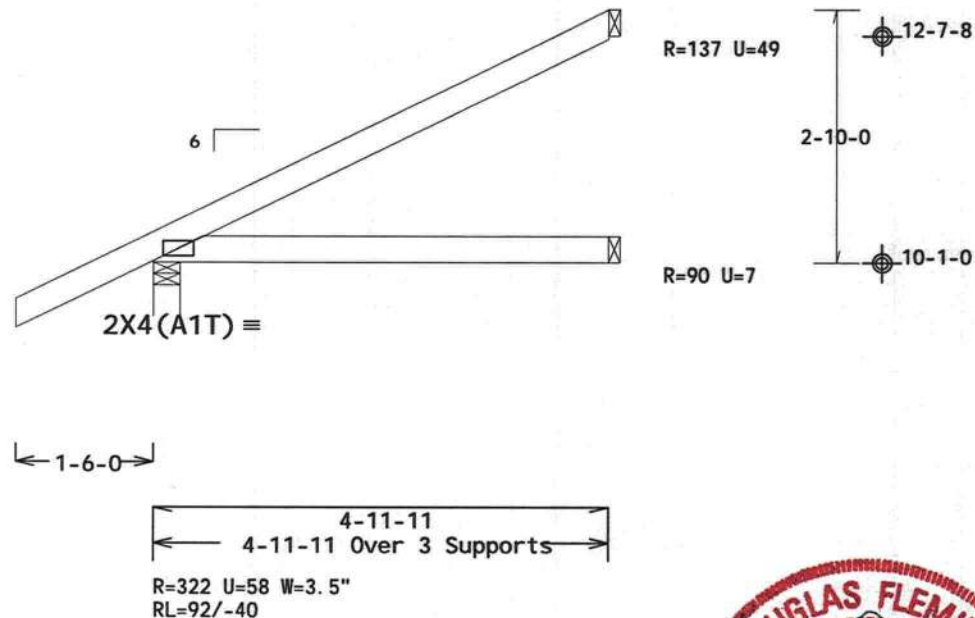
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

Top Chord overhang(s) may be field trimmed.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0226.11

QTY: 4

L/-/2/-/-/R/-

Scale = .5"/Ft.



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TO LL	20.0 PSF	REF R917-- 87
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011044
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298741
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

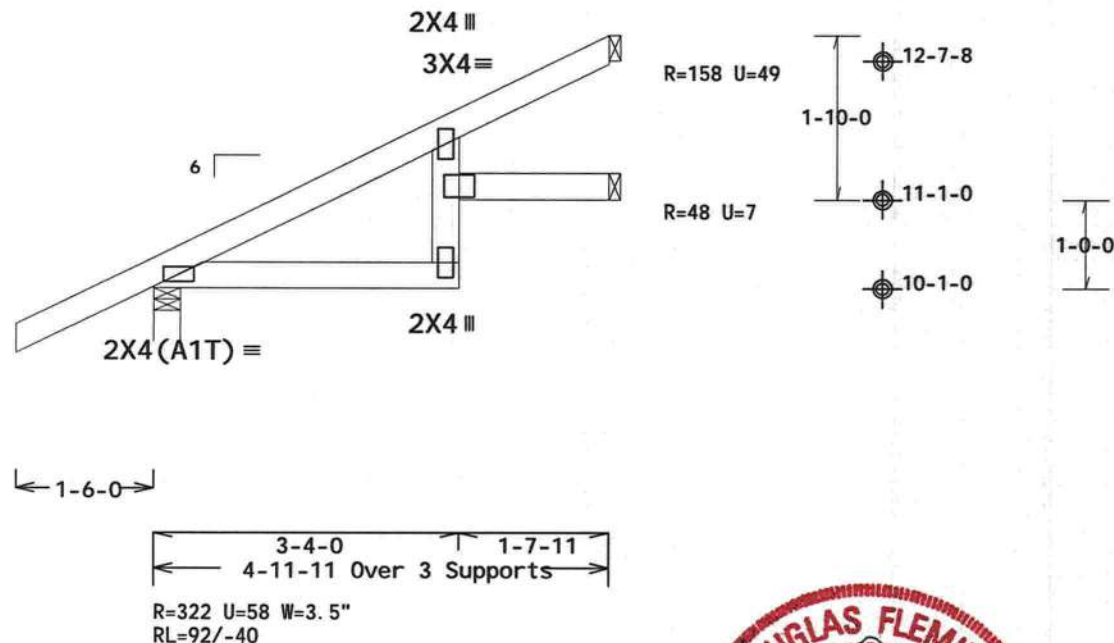
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpl (+/-)=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.

Top Chord overhang(s) may be field trimmed.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

15.01.00.0226.11 QTY: 2

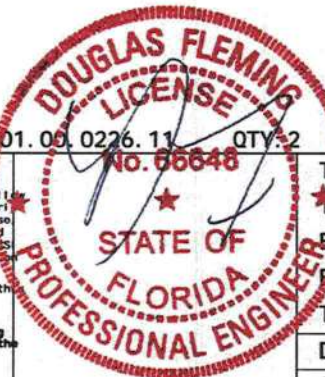
L/-/2/-/-/R/-

Scale = .5"/Ft.



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 ALPINE: www.alpinesw.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 88
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011045
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298750
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

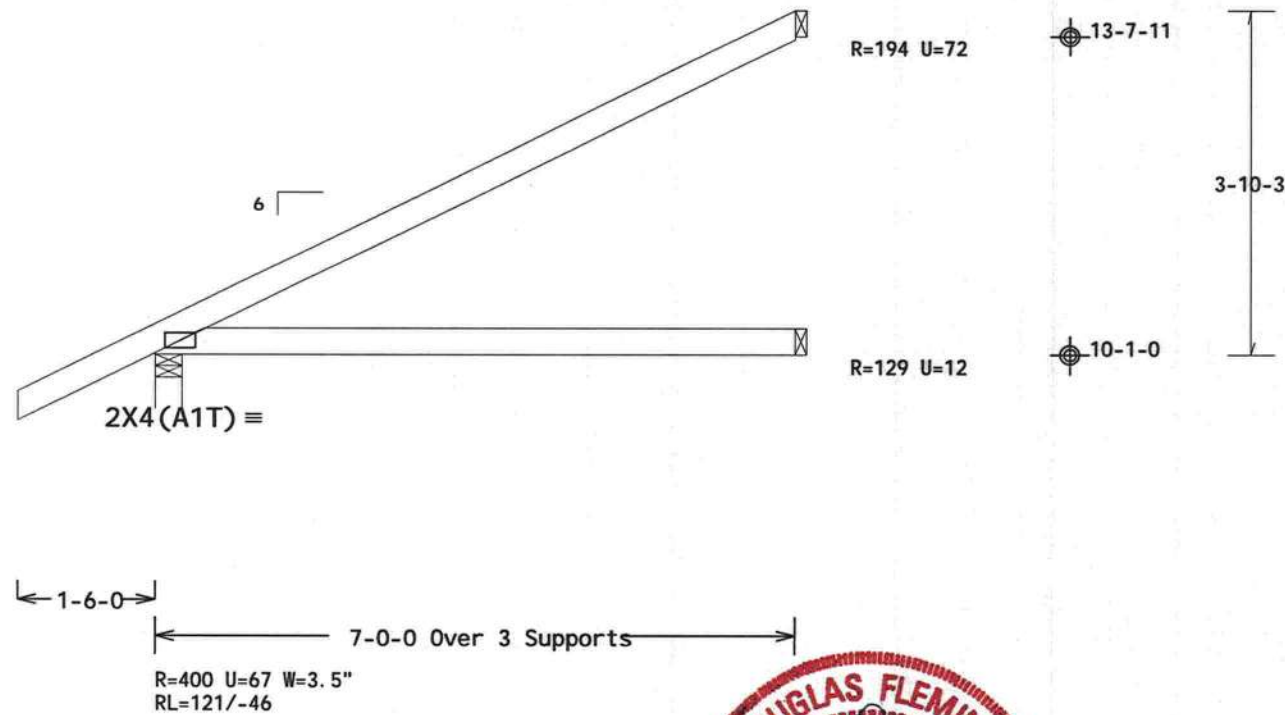
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

Top Chord overhang(s) may be field trimmed.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0226.11

QTY: 30

L/-/2/-/-/R/-

Scale = .5"/Ft.



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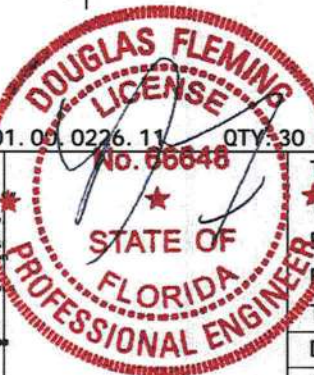
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TOT. LL	20.0 PSF	REF R917-- 89
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011046
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298745
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

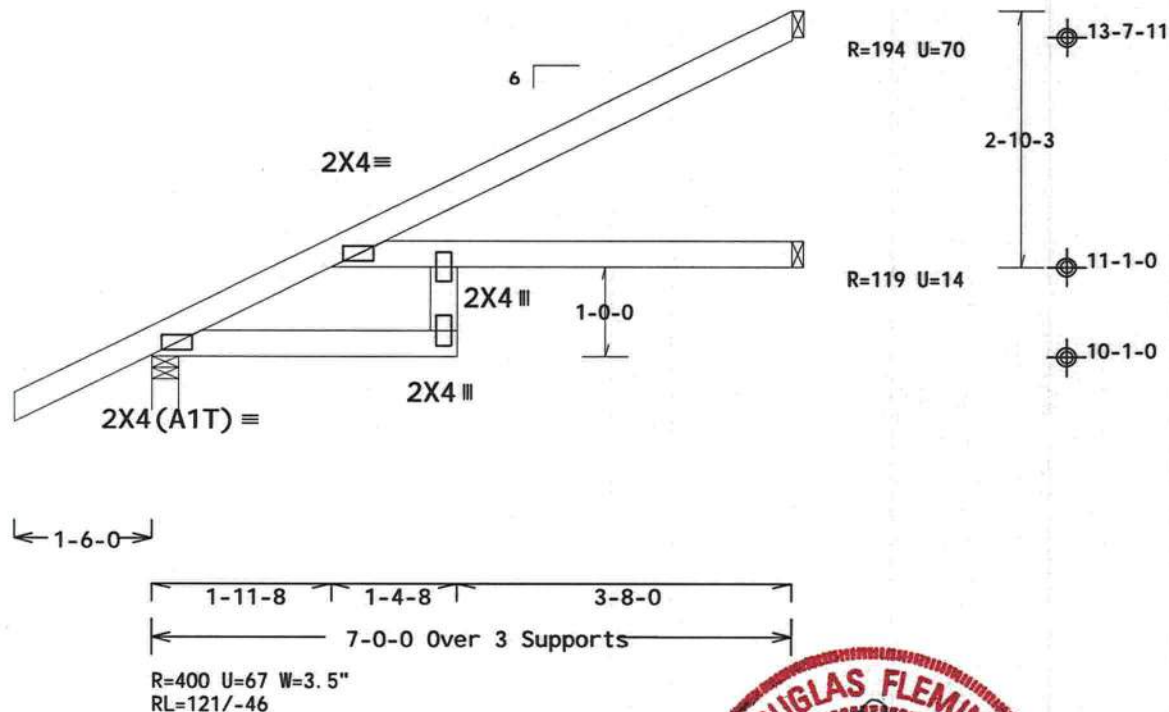
Laterally brace Bottom Chord above filler at 24" oc, including a lateral brace at chord ends.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 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.

Top Chord overhang(s) may be field trimmed.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI -2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0226.11 QTY: 5 F / - / 2 / - / - / R / -

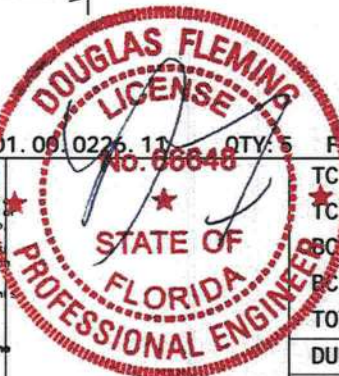
Scale = .5" / Ft.



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TC LL	20.0 PSF	REF R917-- 90
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011047
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298748
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

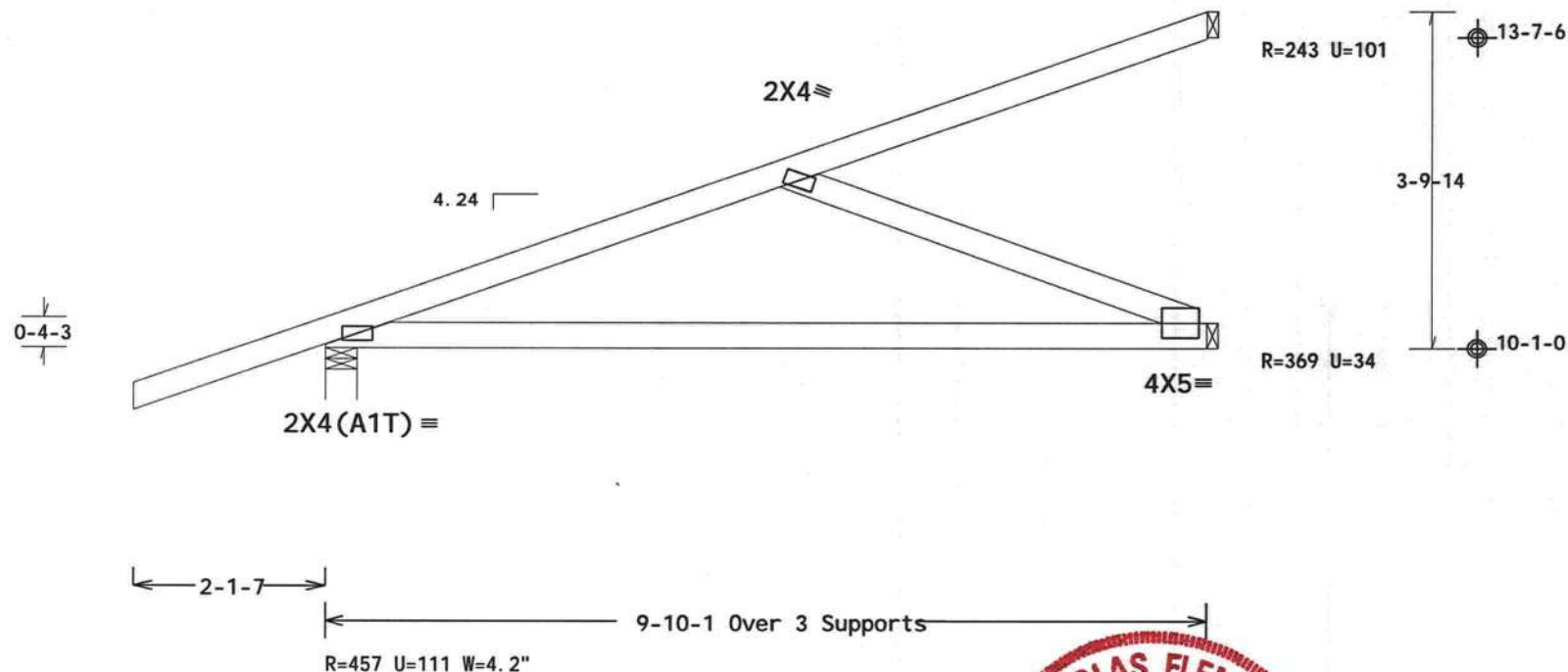
Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC
DL=3.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS.

Hi jack supports 6-11-8 setback jacks with no webs.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0226.11. QTY: 2

F/-/2/-/2/-/R/-

Scale = .5"/Ft.



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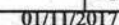
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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 91
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011048
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298743
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Hi pj ack supports 6-11-8 setback jacks wi th no webs.



Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

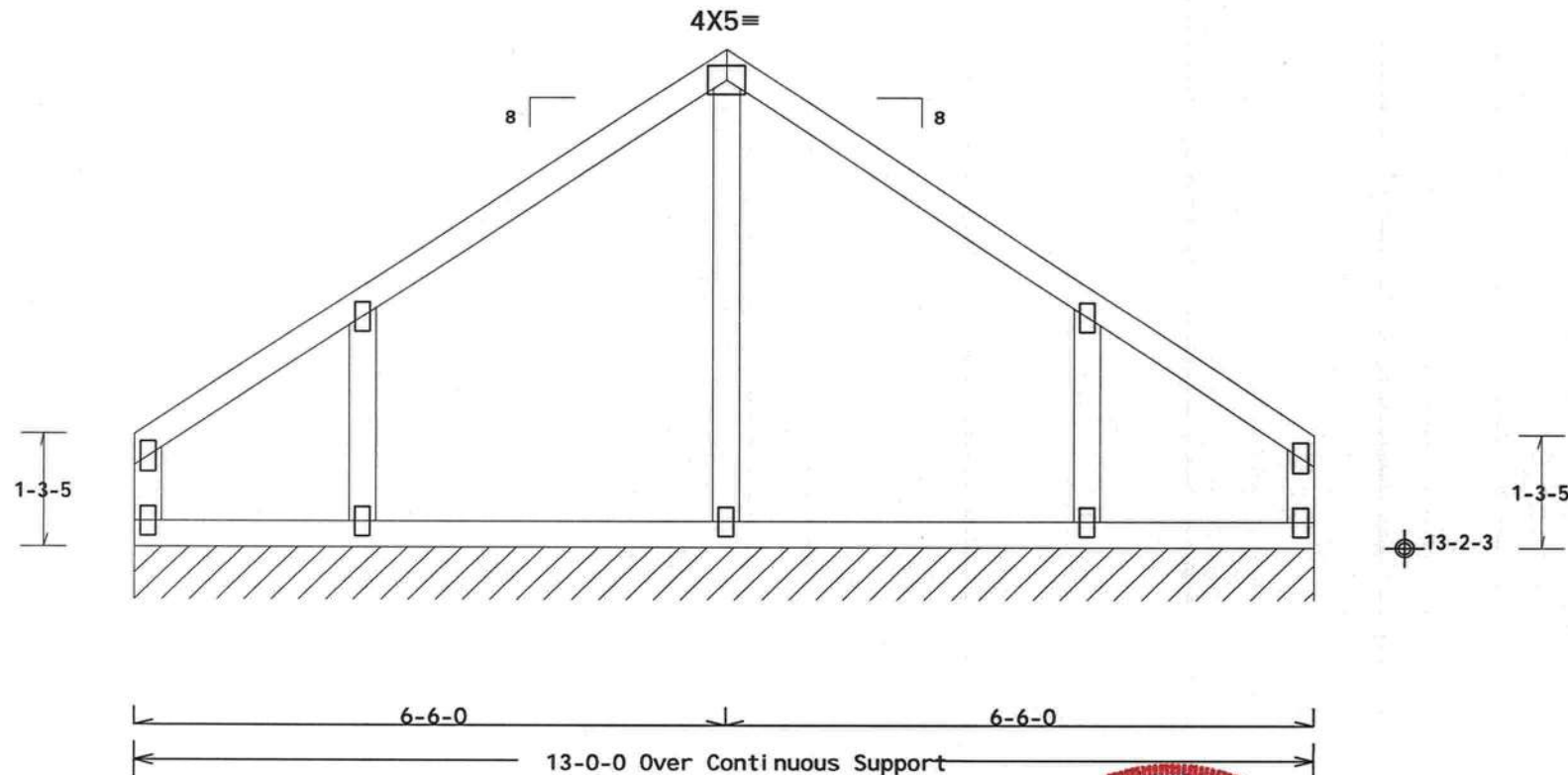
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 16.62 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 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.

See DWG VAL160101014 for valley details.



R=84 PLF U=19 PLF W=13-0-0
RL=9/-9 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

PLT TYP. Wave

15.01.00 0226.11.66849TY:1 FE/-/2/-/-/R/-

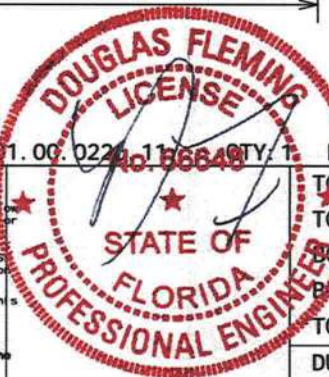
Scale = .5"/Ft.



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TC L	20.0 PSF	REF R917-- 93
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011002
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298804
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

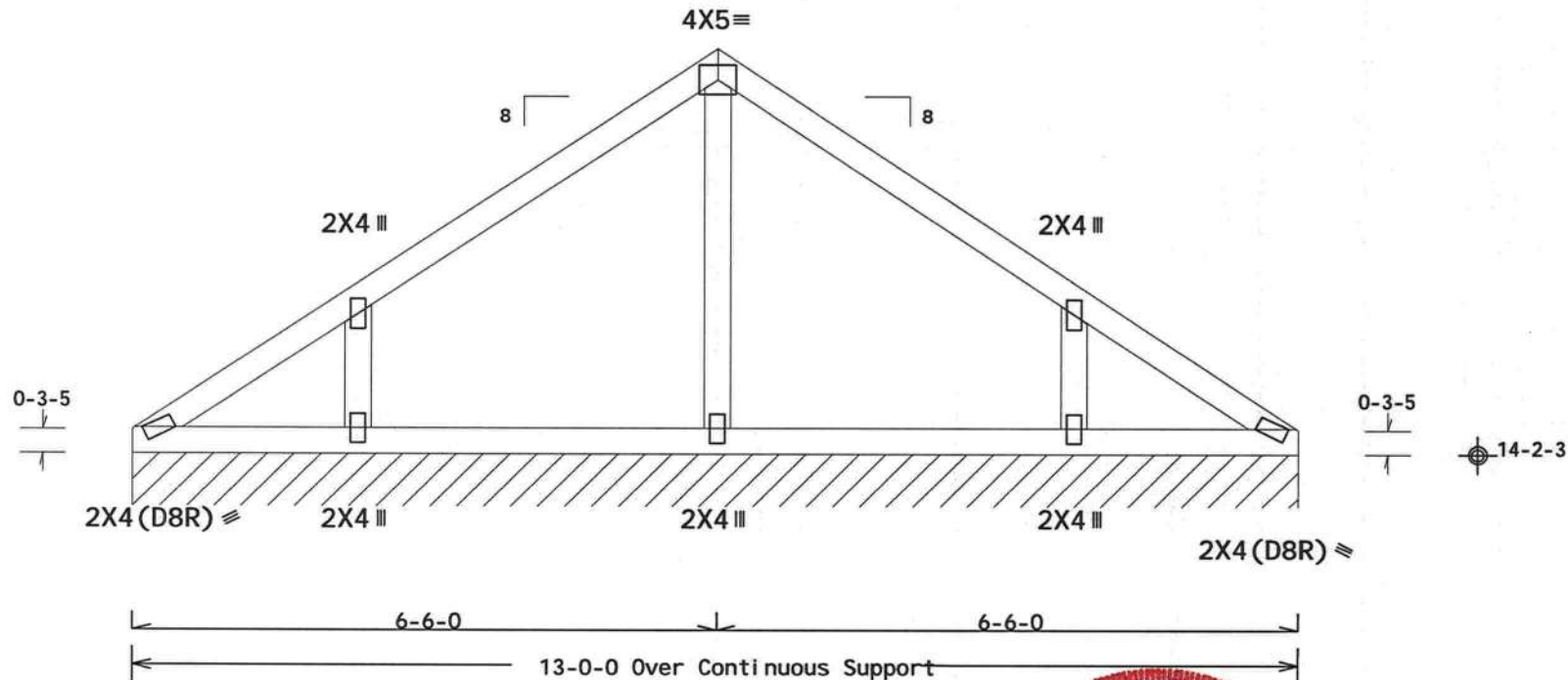
MWFRS loads based on trusses located at least 8.31 ft. from roof edge.

130 mph wind, 16.63 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=3.0 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.

See DWG VAL160101014 for valley details.



R=84 PLF U=17 PLF W=13-0-0
RL=9/-9 PLF

PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0224-116640TY:1

FL/-/2/-/-/R/-

Scale = .5"/Ft.



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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 94
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011003
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298806
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

MWFRS loads based on trusses located at least 8.56 ft. from roof edge.



Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

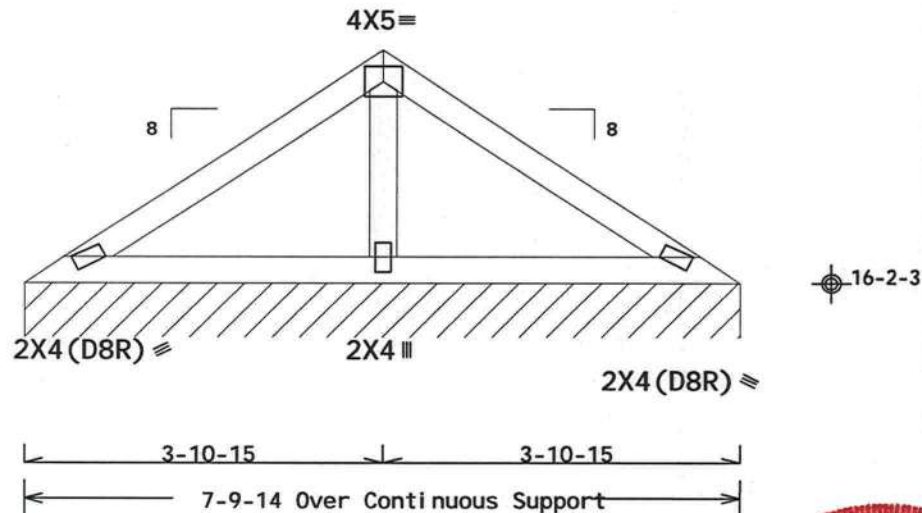
MWFRS loads based on trusses located at least 8.81 ft. from roof edge.

130 mph wind, 17.63 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=3.0 psf. GCpl (+/-)=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.

See DWG VAL160101014 for valley details.



R=84 PLF U=15 PLF W=7'-9'-14
 RL=8/-8 PLF

PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

15.01.00.0225 11/06/07

F/-/-2/-/-/R/-

Scale = .5"/Ft.



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



TC LL	20.0 PSF	REF R917-- 96
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011005
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298810
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

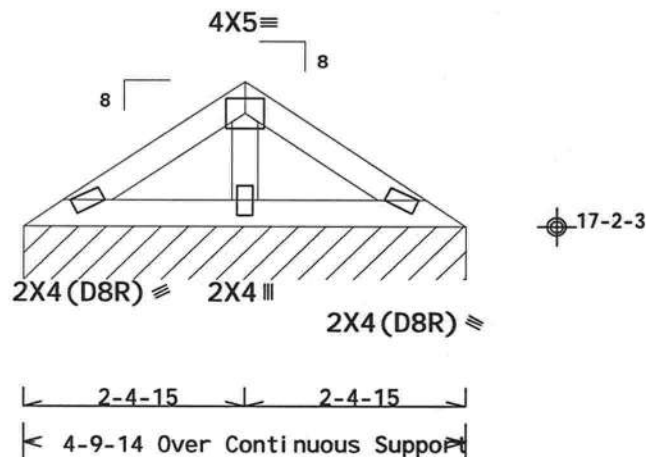
MWFRS loads based on trusses located at least 9.06 ft. from roof edge.

130 mph wind, 18.13 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=3.0 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.

See DWG VAL160101014 for valley details.



R=83 PLF U=13 PLF W=4-9-14
 RL=7/-7 PLF

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

PLT TYP. Wave

15.01.00.0225.11/0TY.

FL/-/2/-/-/R/-

Scale = .5"/Ft.



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



TC LL	20.0 PSF	REF R917-- 97
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011006
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298812
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30

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

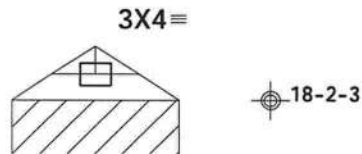
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 9.31 ft. from roof edge.

130 mph wind, 18.63 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=3.0 psf. GCpi (+/-)=0.18

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

See DWG VAL160101014 for valley details.



1-9-14 Over Continuous Support

R=61 PLF U=0 PLF W=1-9-14

PLT TYP.

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15.01.00.0226.11 QTY: 1

L/-/2/-/-/R/-

Scale = .5"/Ft.



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FL COA #0 278

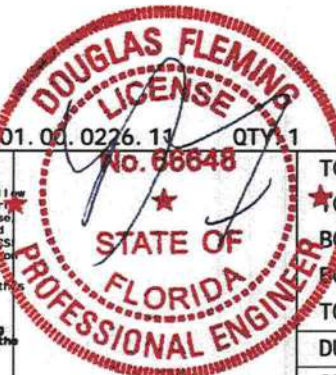
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING**
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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 98
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011007
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298814
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

See DWG VAL160101014 for valley details.

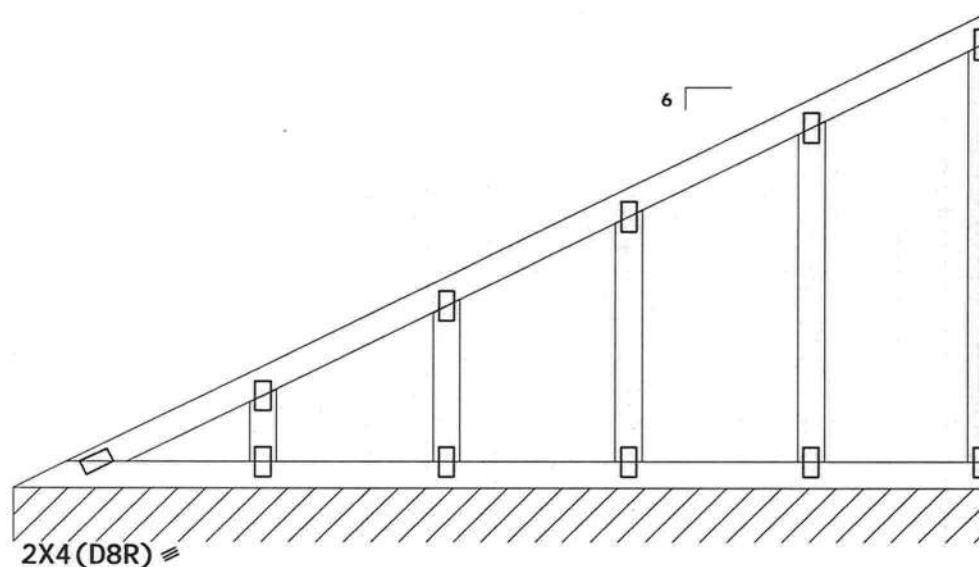
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



8-5-15

R=82 PLF U=8 PLF W=10-8-11
RL=9/-3 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

PLT TYP. Wave

15 01.00.0226.11 QTY:1

L/-/2/-/-/R/-

Scale = .5"/Ft.



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



TC LL	20.0 PSF	REF R917-- 99
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011008
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298858
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

See DWG VAL160101014 for valley details.

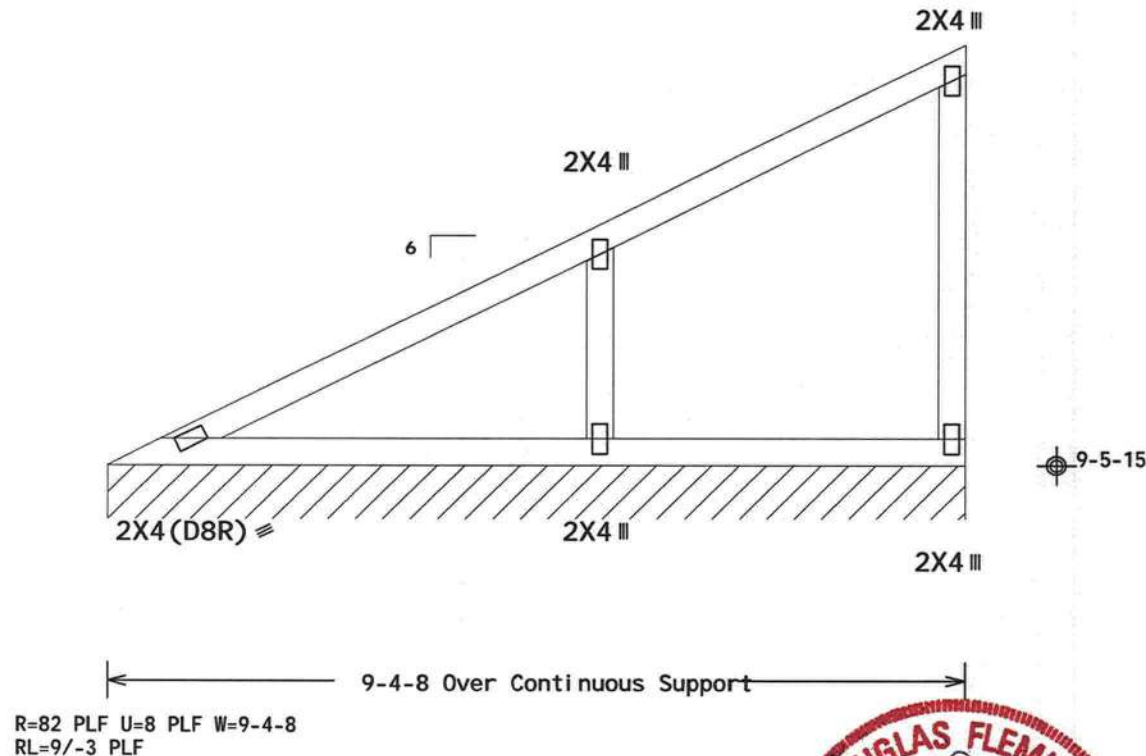
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 psf. GCpi (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0)/0(0)

15 01.00.0226.11 QTY:1

L/-/2/-/-/R/-

Scale = .5"/Ft.



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



TC LL	20.0 PSF	REF R917-- 100
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011009
EC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298856
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

See DWG VAL160101014 for valley details.

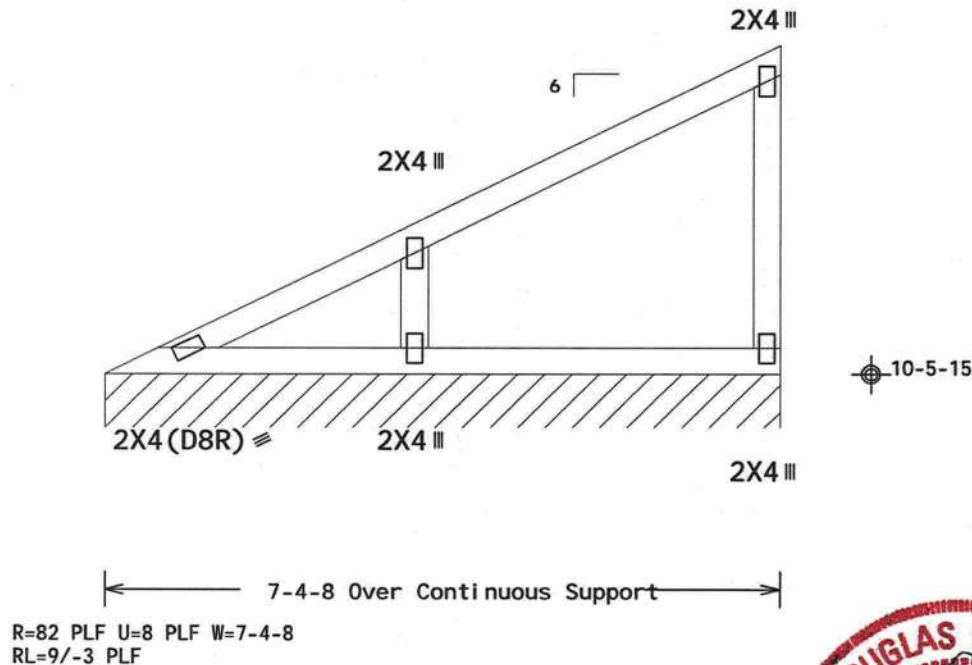
MWFRS loads based on trusses located at least 15.00 ft.
 from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
 anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC
 DL=3.0 psf. GCpi (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase
 factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

15.01.00.0226.11 QTY: 1

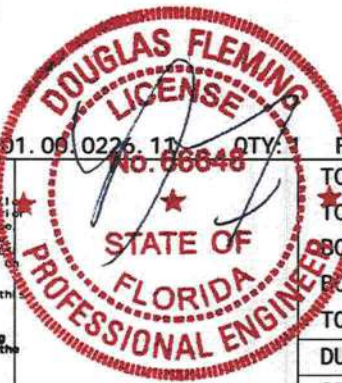
F / - / 2 / - / - / R / -

Scale = .5" / Ft.



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TC LL	20.0 PSF	REF R917-- 101
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011010
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298854
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

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

See DWG VAL160101014 for valley details.

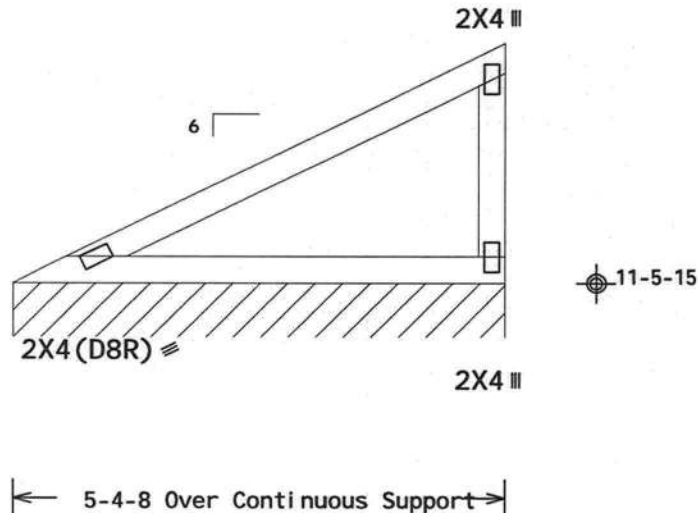
MWFRS loads based on trusses located at least 15.00 ft.
 from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
 anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC
 DL=3.0 psf. GCpi (+/-)=0.18

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

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase
 factor for dead load is 1.50.



R=82 PLF U=7 PLF W=5-4-8
 RL=8 PLF

PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

15.01.00.0226.11 QTY: 1

F/-/2/-/-/R/-

Scale = .5"/Ft.



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TC LL	20.0 PSF	REF R917-- 102
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011011
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298844
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

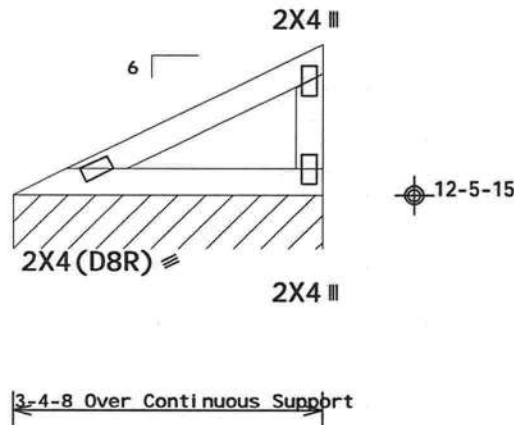
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=3.0 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.

See DWG VAL160101014 for valley details.



R=82 PLF U=14 PLF W=3-4-8
 RL=11 PLF

PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

15.01.00.0226.11

QTY: 2

F / - / 2 / - / - / R / -

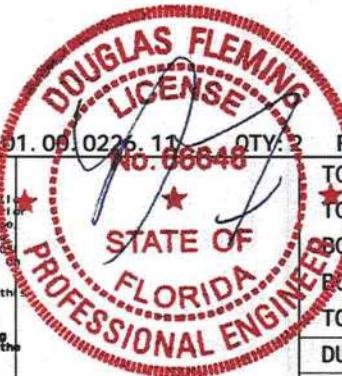
Scale = .5" / Ft.



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



TC LL	20.0 PSF	REF R917-- 103
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011012
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298842
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

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=3.0 psf. GCpi (+/-)=0.18

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

See DWG VAL160101014 for valley details.

1-4-8 Over Continuous Support

R=81 PLF U=8 PLF W=1-4-8

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

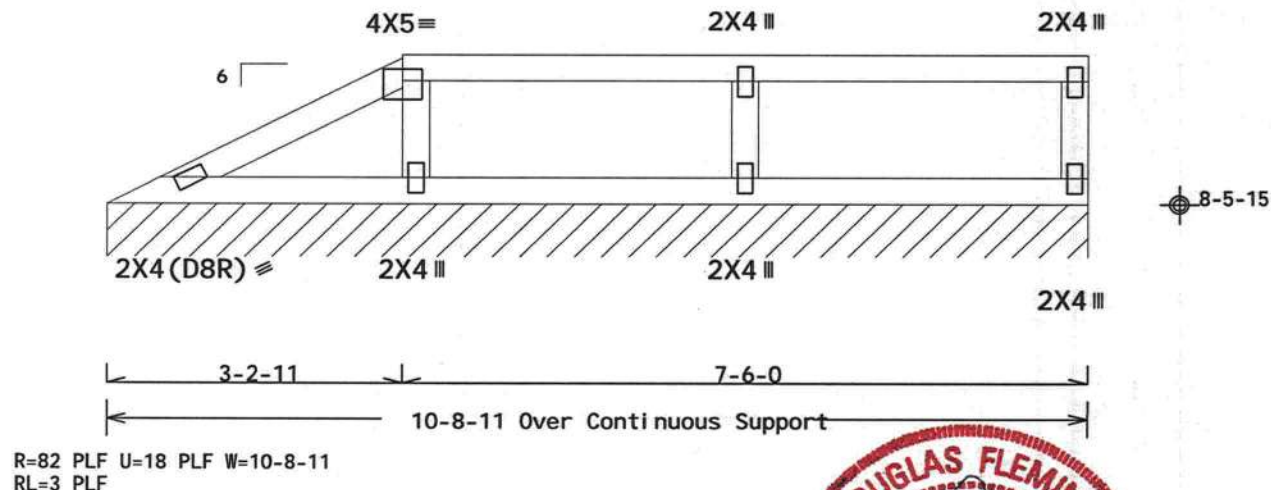
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
 anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC
 DL=3.0 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.

See DWG VAL160101014 for valley details.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

15.01.00.0228-11/06648

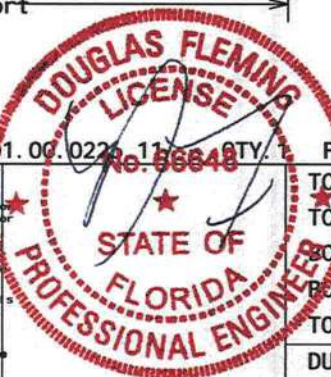
F/-/2/-/-/R/-

Scale = .5"/Ft.



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



TC LL	20.0 PSF	REF R917-- 105
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011014
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298852
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
 Bot chord 2x4 SP M-30
 Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

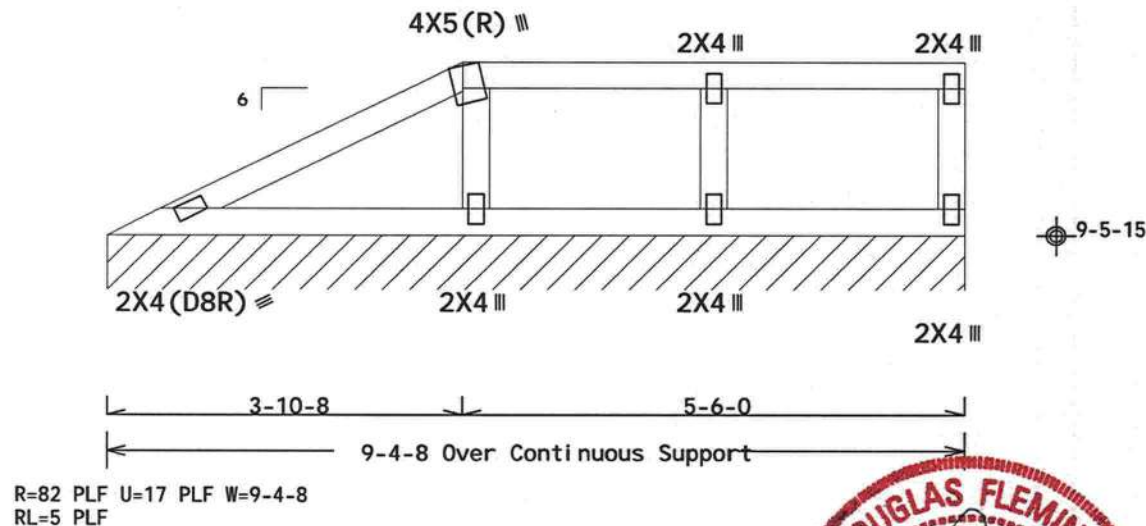
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located
 anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC
 DL=3.0 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.

See DWG VAL160101014 for valley details.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
 FT/RT=20%(0%)/0(0)

15.01.00.0220.11/00048

FL/-/2/-/-/R/-

Scale = .5"/Ft.



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 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R917-- 106
TC DL	10.0 PSF	DATE 01/11/17
BC DL	10.0 PSF	DRW HCUSR917 17011015
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298850
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

See DWG VAL160101014 for valley details.



01/11/2017

Value Set: 13B (Effective 6/1/2013)

Top chord 2x4 SP M-30
Bot chord 2x4 SP M-30
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 19.93 ft. from roof edge.

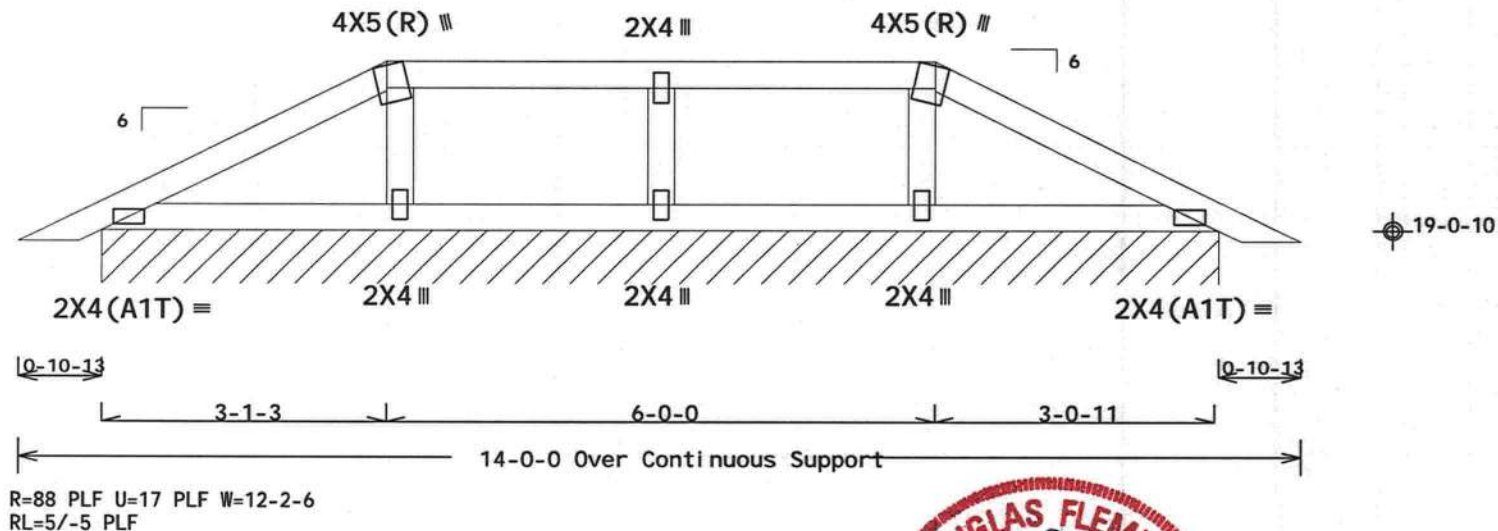
Refer to DWG PB160101014 for piggyback details.

130 mph wind, 19.93 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=3.0 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.

Top Chord overhang(s) may be field trimmed.



PLT TYP. Wave

Design Crit: FBC2014Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

15 01.00.0226.11 QTY 2

FL/-/2/-/-/R/-

Scale = .5"/Ft.



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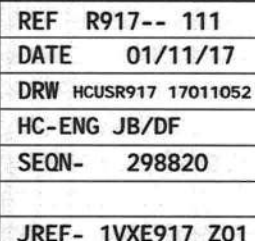
For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org



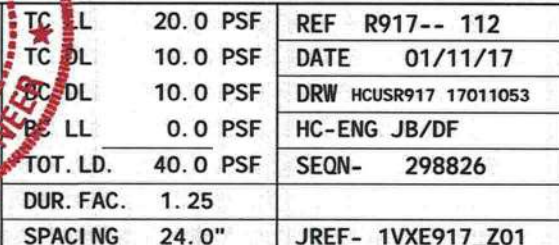
TC LL	20.0 PSF	REF R917-- 110
★ TC DL	10.0 PSF	DATE 01/11/17
★ BC DL	10.0 PSF	DRW HCUSR917 17011051
★ CC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 298818
DUR. FAC.	1.25	
SPACING	24.0"	JREF- 1VXE917_Z01

01/11/2017

Top Chord overhang(s) may be field trimmed.



Top Chord overhang(s) may be field trimmed.



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.

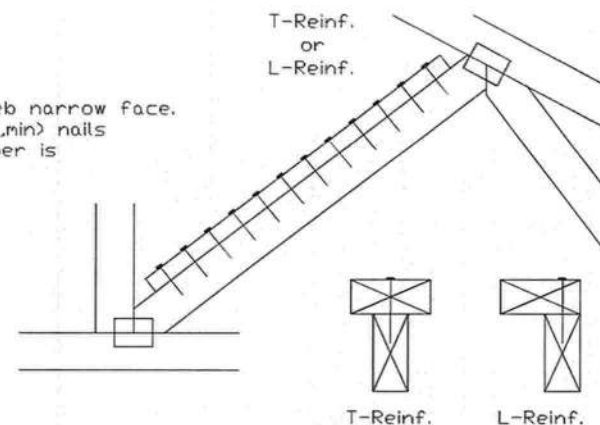
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x6(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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

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

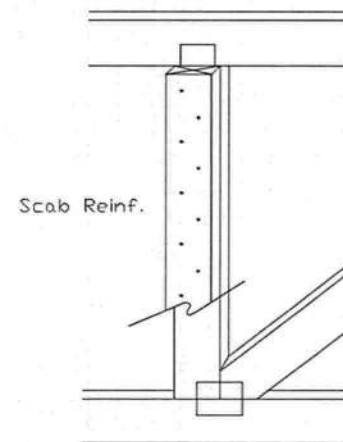
T-Reinforcement or L-Reinforcement:

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



Scab Reinforcement:

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



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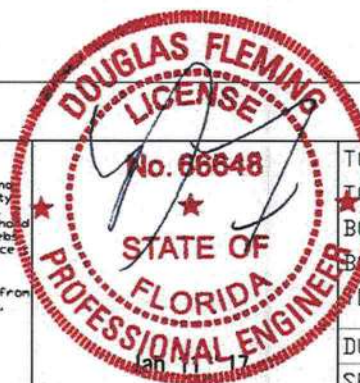
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TO LL	PSF	REF CLR Subst.
TO DL	PSF	DATE 10/01/14
BO DL	PSF	DRWG BRCLBSUB1014
BO LL	PSF	
QT. LD.	PSF	
DUR. FAC.		
SPACING		

Gable Stud Reinforcement Detail

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

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

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

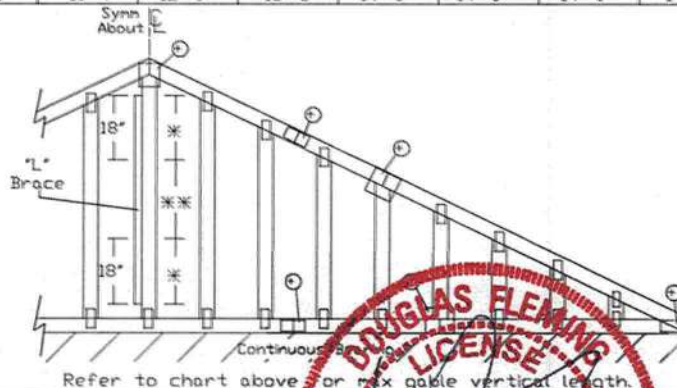
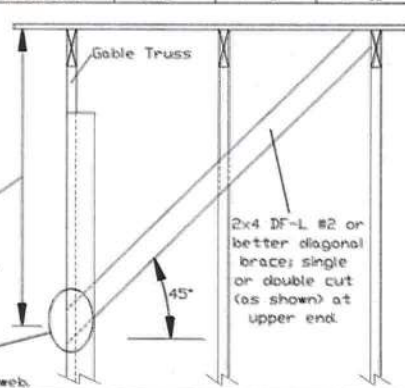
Dr: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

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

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 450# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Bracing Group Species and Grades:

Group A:

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

Douglas Fir-Larch

#3	Stud
Standard	Standard

Southern Pine***

#3	Stud
Standard	Standard

Group B:

Hem-Fir

#1 & Btr	#1
----------	----

Douglas Fir-Larch

#1	#2
----	----

Southern Pine***

#1	#2
----	----

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

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

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

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

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

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

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

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

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

Gable Vertical Plate Sizes

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

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

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



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



MAX. TOT. LD. 60 PSF

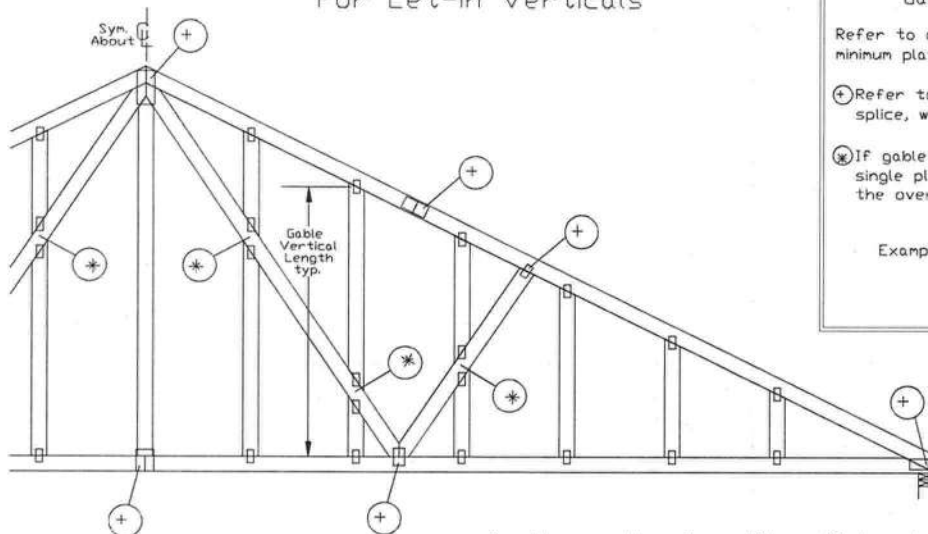
MAX. SPACING 24.0"

REF ASCE7-10-GAB14015

DATE 10/01/14

DRWG A14015ENC101014

Gable Detail For Let-in Verticals



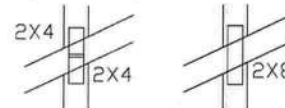
Gable Truss Plate Sizes

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

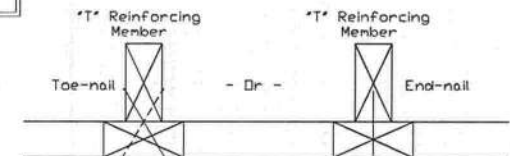
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊗ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



T Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each *T* reinforcing member with

End Driven Nails:

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

Toenailed Nails:

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

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

ASCE 7-05 Gable Detail Drawings

A13015051014, A12015051014, A11015051014, A10015051014, A14015051014,
A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 Gable Detail Drawings

A11515ENC101014, A12015ENC101014, A14015ENC101014, A16015ENC101014,
A18015ENC101014, A20015ENC101014, A20015END101014, A20015PED101014,
A11530ENC101014, A12030ENC101014, A14030ENC101014, A16030ENC101014,
A18030ENC101014, A20030ENC101014, A20030END101014, A20030PED101014
S11515ENC100815, S12015ENC100815, S14015ENC100815, S16015ENC100815,
S18015ENC100815, S20015ENC100815, S20015END100815, S20015PED100815
S11530ENC100815, S12030ENC100815, S14030ENC100815, S16030ENC100815,
S18030ENC100815, S20030ENC100815, S20030END100815, S20030PED100815

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

To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

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

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ *T* Brace

T Reinf. Mbr. Size	*T* Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

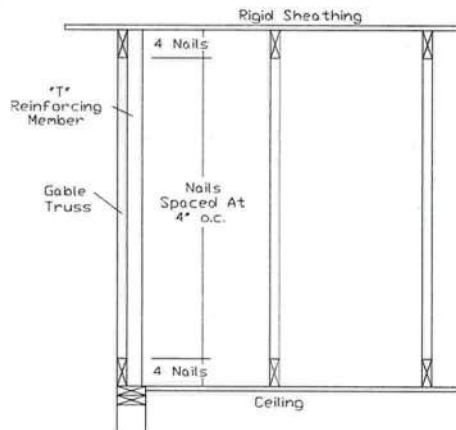
Gable Vertical = 24' o.c. SP #3

T Reinforcing Member Size = 2x4

T Brace Increase (From Above) = 30% = 1.30

(1) 2x4 'L' Brace Length = 8' 7"

Maximum *T* Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"



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ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



REF LET-IN VERT
DATE 10/01/14
DRWG GBLLETIN1014

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

Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

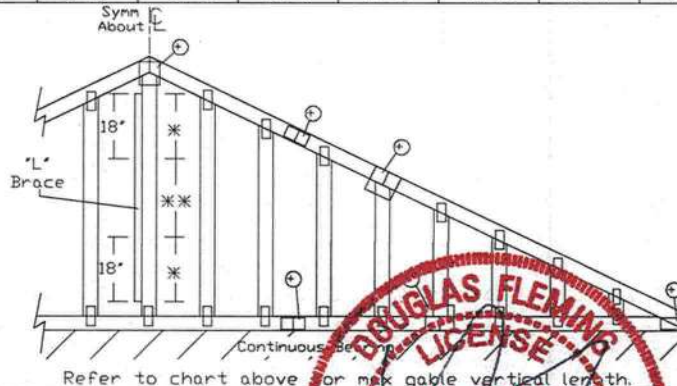
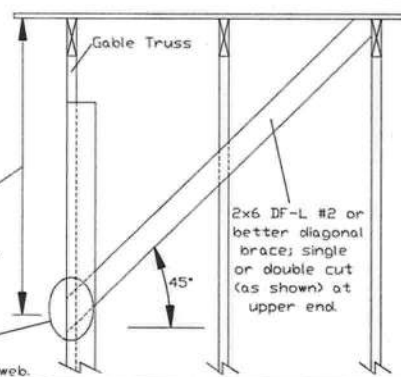
Or: 100 mph wind speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical		Brace	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace *	
	Spacing	Species	Grade		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' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"	
		#3	3' 10"	6' 2"	6' 7"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Stud	3' 10"	6' 2"	6' 6"	8' 1"	8' 5"	9' 8"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Standard	3' 10"	5' 3"	5' 7"	7' 0"	7' 6"	9' 6"	10' 0"	11' 0"	11' 10"	14' 0"	14' 0"	
		SP DFL	#1	4' 2"	7' 0"	7' 3"	8' 3"	8' 7"	9' 10"	10' 3"	13' 0"	13' 6"	14' 0"	14' 0"
			#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 6"	9' 9"	10' 2"	12' 10"	13' 4"	14' 0"	14' 0"
			#3	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
			Stud	4' 0"	5' 7"	5' 11"	7' 5"	7' 11"	9' 8"	10' 1"	11' 7"	12' 5"	14' 0"	14' 0"
	Standard	3' 9"	4' 11"	5' 13"	6' 6"	7' 0"	8' 10"	9' 6"	10' 3"	11' 0"	13' 11"	14' 0"	14' 0"	
		SPF HF	#1 / #2	4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	4' 5"	7' 6"	8' 3"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
			Stud	4' 5"	7' 6"	8' 0"	9' 3"	9' 7"	11' 0"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"
Standard	4' 5"		6' 5"	6' 10"	8' 7"	9' 2"	11' 0"	11' 6"	13' 6"	14' 0"	14' 0"	14' 0"		
SP DFL	#1		4' 10"	8' 0"	8' 4"	9' 6"	9' 10"	11' 3"	11' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
	#2		4' 8"	7' 11"	8' 3"	9' 4"	9' 9"	11' 2"	11' 7"	14' 0"	14' 0"	14' 0"	14' 0"	
	#3		4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
	Stud		4' 7"	6' 10"	7' 3"	9' 1"	9' 8"	11' 1"	11' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
Standard	4' 5"	6' 0"	6' 5"	8' 0"	8' 7"	10' 10"	11' 6"	12' 7"	13' 15"	14' 0"	14' 0"	14' 0"		
	16" o.c.	#1 / #2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	11' 2"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
		Stud	4' 10"	8' 7"	8' 11"	10' 2"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
		Standard	4' 10"	7' 5"	7' 11"	9' 11"	10' 7"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
		SP DFL	#1	5' 4"	8' 10"	9' 2"	10' 5"	10' 10"	12' 5"	12' 11"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 2"	8' 9"	9' 1"	10' 4"	10' 9"	12' 3"	12' 9"	14' 0"	14' 0"	14' 0"	14' 0"
			#3	5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"
Stud			5' 0"	7' 10"	8' 4"	10' 3"	10' 8"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
Standard		4' 10"	6' 11"	7' 4"	9' 3"	9' 10"	12' 2"	12' 8"	14' 0"	14' 0"	14' 0"	14' 0"		

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for S2S# at each end. Max web total length is 14'.

Vertical length shown in table above.

Connect diagonal at midpoint of vertical web.



Refer to chart above for max gable vertical length.

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	Stud	#3	Stud
Standard	Standard	Standard	Standard

Group B:			
Hem-Fir		Southern Pine***	
#1 & Btr	#1	#1	#2
Douglas Fir-Larch	#1	#1	#2
#2	#2	#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 100 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"	2X4
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

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

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



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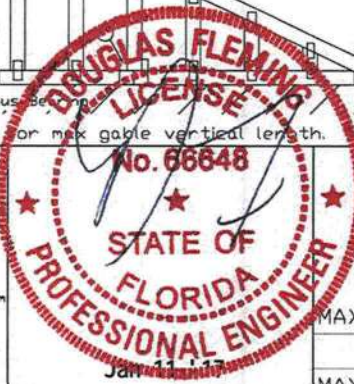
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REF: ASCE7-10-GAB14030

DATE: 10/01/14

DRWG: A14030ENC101014

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

01/11/2017

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

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

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

Bottom chord may be square or pitched cut
 as shown.

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

All plates shown are ITW BCG Wave Plates.

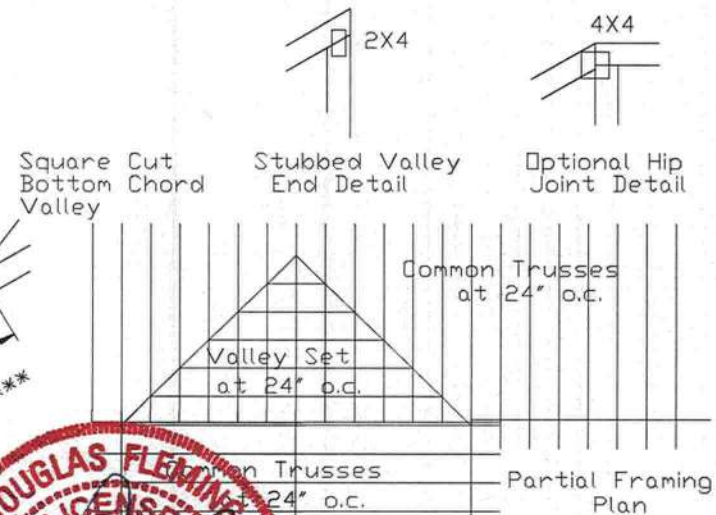
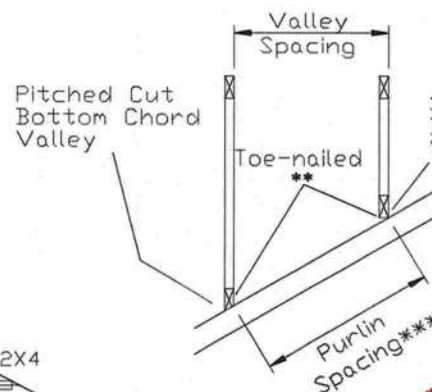
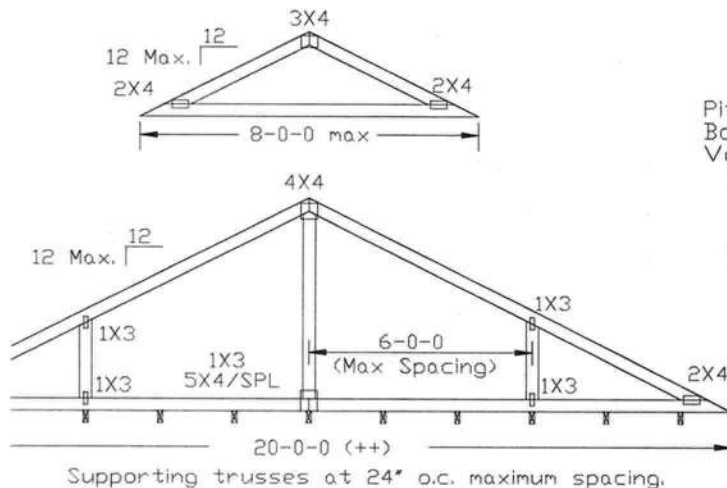
Unless specified otherwise on engineer's sealed design, for vertical
 valley webs taller than 7'-9" apply 2x4 "T" reinforcement, 80% length of
 web, same species and grade or better, attached with 10d box
 (0.128" x 3.0") nails at 6" o.c. In lieu of "T" reinforcement, 2x4 Continuous
 Lateral Restraint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

Top chord of truss beneath valley set must be braced with:
 properly attached, rated sheathing applied prior to valley truss
 installation.

Or
 Purlins at 24" o.c. or as otherwise specified on engineer's sealed design
 Or
 By valley trusses used in lieu of purlin spacing as specified on
 Engineer's sealed design.

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

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



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 Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord
 shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs
 shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face
 of truss and position as shown above and on the Joint Details, unless noted otherwise.
 Refer to drawings 160A-Z for standard plate positions.
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TC	LL	30	30	40PSF	REF	VALLEY DETAIL
DL	20	15	7PSF	DATE	10/01/2014	
BC	DL	10	10	10 PSF	DRWG	VAL160101014
LL	0	0	0 PSF			
MT.	LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15			
SPACING	24.0"					

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

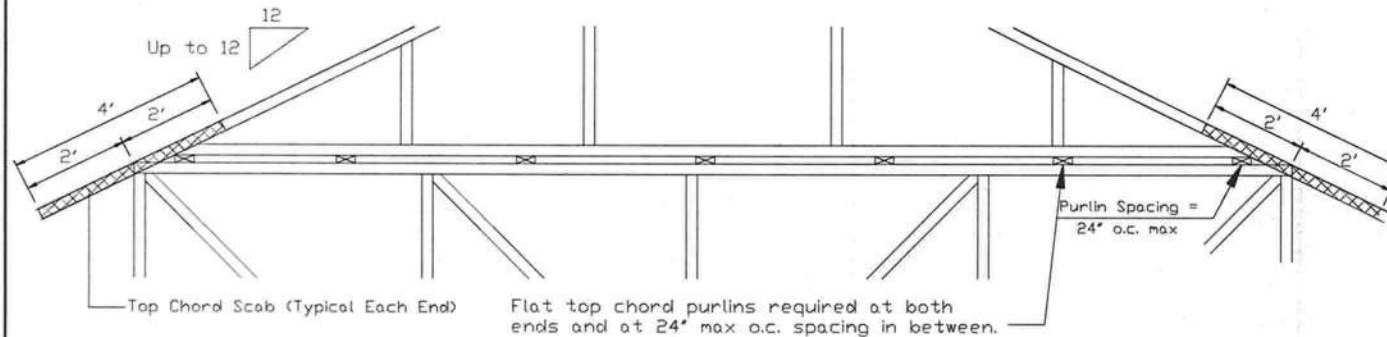
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

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

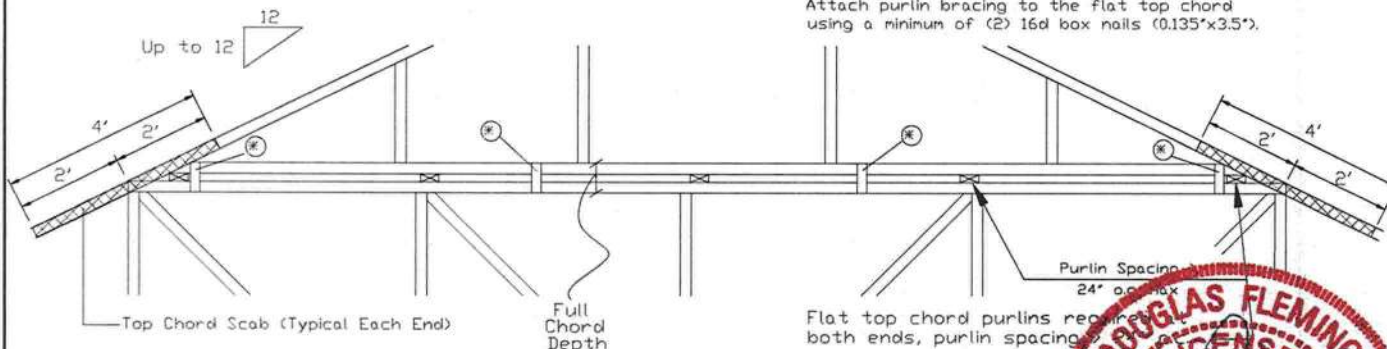


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

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.



13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

****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.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



REF PIGGYBACK
DATE 10/01/14
DRWG PB160101014

SPACING 24.0"

01/11/2017

34895

Notice of Treatment

52211

Applicator: Florida Pest Control . (www.flapest.com)

Address: 116 NW 16th Ave

City: Gail Phone 376 2661

Site Location: Subdivision Block# Permit #

Address 956 SW Morning Star Ct NW Ft White

Product used

☐ Premise

Imidacloprid

0.1%

☐ Termitidor

Fipronil

0.12%

☐

Type treatment:

☒ Soil

Area Treated

1700 sq ft

Square feet

233

Gallons Applied

50

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

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

Date 8/5/17

Time 12:30 PM

Print Technician's Name Louie Carter

Remarks:

Applicator - White Permit File - Canary

Permit Holder - Pink

5/15

©

Notice of Treatment

52216

Applicator: Florida Pest Control . (www.flapest.com)

Address: 116 NW 16th Ave

City: Gail Phone 376-2661

Site Location: Subdivision Block# Permit #

Address 956 SW Morning Star Ct NW Ft White

Product used

☒ Premise

Imidacloprid

0.1%

☐ Termitidor

Fipronil

0.12%

☐

Type treatment:

☒ Soil

Area Treated

1700 sq ft

Square feet

3110

Linear feet

Gallons Applied

233

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

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

Date 2-17-17

Time 3:00

Print Technician's Name Bryan Griffin

Remarks:

Applicator - White Permit File - Canary

Permit Holder - Pink

5/15

©