DATE 11/14/2008

# Columbia County Building Permit

**This Permit Must Be Prominently Posted on Premises During Construction**

**PERMIT**
**000027483**

APPLICANT WADE WILLIS PHONE 623-3331

ADDRESS P.O. BOX 2051 LAKE CITY FL 32056

OWNER DELTA OMEGA PROPERTIES, INC PHONE

ADDRESS 140 SW ERSKINE LAKE CITY FL 32025

CONTRACTOR WADE WILLIS PHONE 623-3331

LOCATION OF PROPERTY 47S,TR CR 242,TR ARROWHEAD,TL CANNON CREEK, TL CHESTERFIELD,TR CHESTERFIELD,TR ERSKINE, 3RD ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 113150.00

HEATED FLOOR AREA 1490.00 TOTAL AREA 2263.00 HEIGHT 18.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 18

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

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

PARCEL ID 24-4S-16-03117-106 SUBDIVISION CROSSWINDS

LOT 6 BLOCK PHASE UNIT TOTAL ACRES 0.50

| | | CBC1252491 | | |
|---|---|---|---|---|
| Culvert Permit No. | Culvert Waiver | Contractor's License Number | | Applicant/Owner/Contractor |
| EXISTING | 08-701 | BK | RJ | Y |
| Driveway Connection | Septic Tank Number | LU & Zoning checked by | Approved for Issuance | New Resident |

COMMENTS: NOC ON FILE, ONE FOOT ABOVE THE ROAD

Check # or Cash 1633

## FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by

Foundation _____ date/app. by

Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by

Slab _____ date/app. by

Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by

Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by

Heat & Air Duct _____ date/app. by

Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by

C.O. Final _____ date/app. by

Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by

Pool _____ date/app. by

Reconnection _____ date/app. by

Pump pole _____ date/app. by

Utility Pole _____ date/app. by

M/H Pole _____ date/app. by

Travel Trailer _____ date/app. by

Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 570.00 CERTIFICATION FEE $ 11.31 SURCHARGE FEE $ 11.31

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 667.62

INSPECTORS OFFICE _____ ~~CLERKS~~ OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"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 TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

DATE 03/23/2010

# Columbia County Building Permit

**This Permit Must Be Prominently Posted on Premises During Construction**

**PERMIT**
**000028445**

APPLICANT WADE WILLIS PHONE 623-3331

ADDRESS P.O. BOX 2051 LAKE CITY FL 32056

OWNER DELTA OMEGA PROPERTIES, INC PHONE

ADDRESS 140 SW ERSKINE LAKE CITY FL 32025

CONTRACTOR WADE WILLIS PHONE 623-3331

LOCATION OF PROPERTY 47S,TR CR 242,TR ARROWHEAD,TL CANNON CREEK, TL CHESTERFIELD,TR CHESTERFIELD,TR ERSKINE, 3RD ON LEFT

TYPE DEVELOPMENT RE-ISSUE 27483/SFD ESTIMATED COST OF CONSTRUCTION 0.00

HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

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

PARCEL ID 24-4S-16-03117-106 SUBDIVISION CROSSWINDS

LOT 6 BLOCK PHASE UNIT 0 TOTAL ACRES 0.50

| Culvert Permit No. | Culvert Waiver | Contractor's License Number | Applicant/Owner/Contractor |
|---|---|---|---|
| EXISTING | 08-701 | BK | RJ |
| Driveway Connection | Septic Tank Number | LU & Zoning checked by | Approved for Issuance |

New Resident

COMMENTS: RE-ISSUANCE OF PERMIT,PERMIT #27483, ONE INSPECTION REMAINING
NOC ON FILE, ONE FOOT ABOVE THE ROAD

Check # or Cash

## FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power date/app. by

Foundation (footer/Slab) date/app. by

Monolithic date/app. by

Under slab rough-in plumbing date/app. by

Slab date/app. by

Sheathing/Nailing date/app. by

Framing date/app. by

Insulation date/app. by

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

Electrical rough-in date/app. by

Heat & Air Duct date/app. by

Peri. beam (Lintel) date/app. by

Pool date/app. by

Permanent power date/app. by

C.O. Final date/app. by

Culvert date/app. by

Pump pole date/app. by

Utility Pole date/app. by

M/H tie downs, blocking, electricity and plumbing date/app. by

Reconnection date/app. by

RV date/app. by

Re-roof date/app. by

BUILDING PERMIT FEE $ 0.00 CERTIFICATION FEE $ 0.00 SURCHARGE FEE $ 0.00

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ CULVERT FEE $ **TOTAL FEE** 50.00

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. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

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

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

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

# Columbia County Building Permit Application

For Office Use Only Application # 0810-55 Date Received 10/30/08 By LS Permit # 27483

Zoning Official BLK Date 11.11.08 Flood Zone X per plat Land Use RES. Low Den Zoning RSF-2

FEMA Map # N/A Elevation N/A MFE 1ft above Rd River N/A Plans Examiner MG Date 11/13/08

Comments

✓ NOC ✓ EH ✓ Deed or PA ✓ Site Plan ☐ State Road Info ☐ Parent Parcel #

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

IMPACT FEES: EMS $29.88 Fire $78.63 Corr $409.16 Road/Code $1,046 /210

School $1,500.00 = TOTAL $3,063.67

Septic Permit No. Fax 961-9963

Name Authorized Person Signing Permit Wade Willis Phone 386 623 3331

Address PO Box 2051 LC FL 32056

Owners Name Delta Omega Properties Inc Phone

911 Address 140 SW ERSKINE Ct LC FL 32025

Contractors Name Wade Willis Phone 386-623-3331

Address PO Box 2051 LC FL 32056

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address

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

Property ID Number 24-4S-16-03117-106 Estimated Cost of Construction $102,000

Subdivision Name Cross Winds Lot 6 Block Unit Phase

Driving Directions St Rd 47 south, TR on 242, TR on Arrowhead TL on Cannon creek, TL into Chesterfield Circle, crosswinds; TR on Chesterfield TR on Ersking 3rd lot on left Number of Existing Dwellings on Property 0

Construction of house SFD Total Acreage 1/2 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 18'

Actual Distance of Structure from Property Lines - Front 102 Side 18 Side 25 Rear 91

Number of Stories 1 Heated Floor Area 1490 Total Floor Area 2263 Roof Pitch 6/12

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

left message 11/13/08 (CH)

**Columbia County Building Permit Application**

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

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

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

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

**OWNERS CERTIFICATION:** I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

James Elliott Sutton
**Owners Signature**

**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.

**Contractor's Signature (Permitee)**

**Contractor's License Number** CBC 1252491
**Columbia County**
**Competency Card Number**_____

**Affirmed under penalty of perjury to by the Contractor and subscribed before me this** 29 **day of** October **20**08.

**Personally known**_____ **or Produced Identification** FLDL

MaraLisa Reed
**State of Florida Notary Signature (For the Contractor)**

**SEAL:**

MARALISA REED
MY COMMISSION # DD 684249
EXPIRES: June 18, 2010
Bonded Thru Notary Public Underwriters

Inst:200812019793 Date:10/30/2008 Time:1:27 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1161 P:812

# NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 24-4S-16-03117-106

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

1. Description of property *(legal description)*: Lot 6 Crosswinds S/D Phase 1
   a) Street *(job)* Address: 140 SW Erskine LC FL 32025
2. General description of improvements: house
3. Owner Information
   a) Name and address: Delta Omega Properties Inc 3454 SW CR 242 LC FL 32024
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property Owner
4. Contractor Information
   a) Name and address: Wade Willis PO Box 2051
   b) Telephone No.: 386-623-3331 Fax No. (Opt.) _____
5. Surety Information
   a) Name and address: _____
   b) Amount of Bond: —
   c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
   a) Name and address: —
   b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: —
   b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes:
   a) Name and address: —
   b) Telephone No.: _____ Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**: _____

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. James Pruett Smithey
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

JAMES PRUETT SMITHEY
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 27 day of October, 2008, by:

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

Personally Known ✓ OR Produced Identification _____ Type _____

Notary Signature _____ Notary Stamp or Seal:

SCOTT THOMAS MOORE
MY COMMISSION # DD 695342
EXPIRES: November 16, 2011
Bonded Thru Notary Public Underwriters

**—AND—**

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

James Pruett Smithey
Signature of Natural Person Signing (in line #10 above.)

# umbia County Property Appraiser

ast Updated: 8/5/2008

## 2008 Proposed Values

arcel: 24-4S-16-03117-106

Tax Record | Property Card | Interactive GIS Map | Print

### Owner & Property Info

Search Result: 1 of 6 Next >>

| | | | |
|---|---|---|---|
| **Owner's Name** | DELTA OMEGA PROPERTIES INC | | |
| **Site Address** | ERSKINE | | |
| **Mailing Address** | 3454 SW CR 242<br>LAKE CITY, FL 32024 | | |
| **Use Desc. (code)** | VACANT (000000) | | |
| **Neighborhood** | 24416.00 | **Tax District** | 2 |
| **UD Codes** | MKTA06 | **Market Area** | 06 |
| **Total Land Area** | 0.510 ACRES | | |
| **Description** | LOT 6 CROSSWINDS S/D PHASE 1. | | |

**GIS Aerial**


### Property & Assessment Values

| | | |
|---|---|---|
| **Mkt Land Value** | cnt: (1) | $35,000.00 |
| **Ag Land Value** | cnt: (0) | $0.00 |
| **Building Value** | cnt: (0) | $0.00 |
| **XFOB Value** | cnt: (0) | $0.00 |
| **Total Appraised Value** | | $35,000.00 |

| | |
|---|---|
| **Just Value** | $35,000.00 |
| **Class Value** | $0.00 |
| **Assessed Value** | $35,000.00 |
| **Exempt Value** | $0.00 |
| **Total Taxable Value** | $35,000.00 |

### Sales History

| Sale Date | Book/Page | Inst. Type | Sale Vlmp | Sale Qual | Sale RCode | Sale Price |
|---|---|---|---|---|---|---|
| NONE | | | | | | |

### Building Characteristics

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

### Extra Features & Out Buildings

| Code | Desc | Year Blt | Value | Units | Dims | Condition (% Good) |
|---|---|---|---|---|---|---|
| NONE | | | | | | |

### Land Breakdown

| Lnd Code | Desc | Units | Adjustments | Eff Rate | Lnd Value |
|---|---|---|---|---|---|
| 000000 | VAC RES (MKT) | 1.000 LT - (.510AC) | 1.00/1.00/1.00/1.00 | $35,000.00 | $35,000.00 |

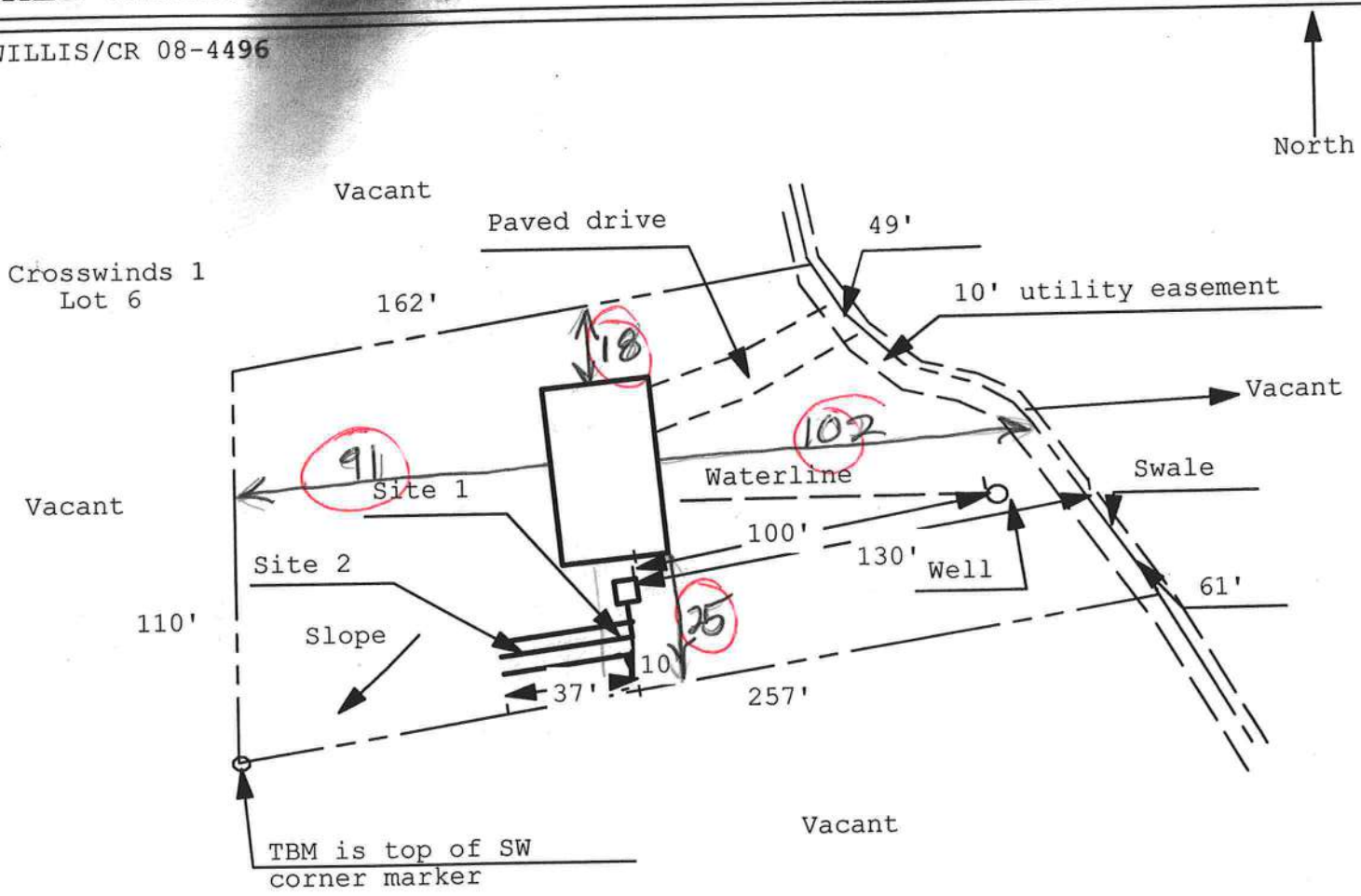
Columbia County Property Appraiser

DB Last Updated: 8/5/2008

# lication for Onsite Sewage Disposal System
# nstruction Permit. Part II Site Plan
# ermit Application Number: _____

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT**

WILLIS/CR 08-4496




1 inch = 50 feet

Site Plan Submitted By Paul Lloyd Date 10/10/08

Plan Approved_____ Not Approved_____ Date_____

By_____ _____CPHU

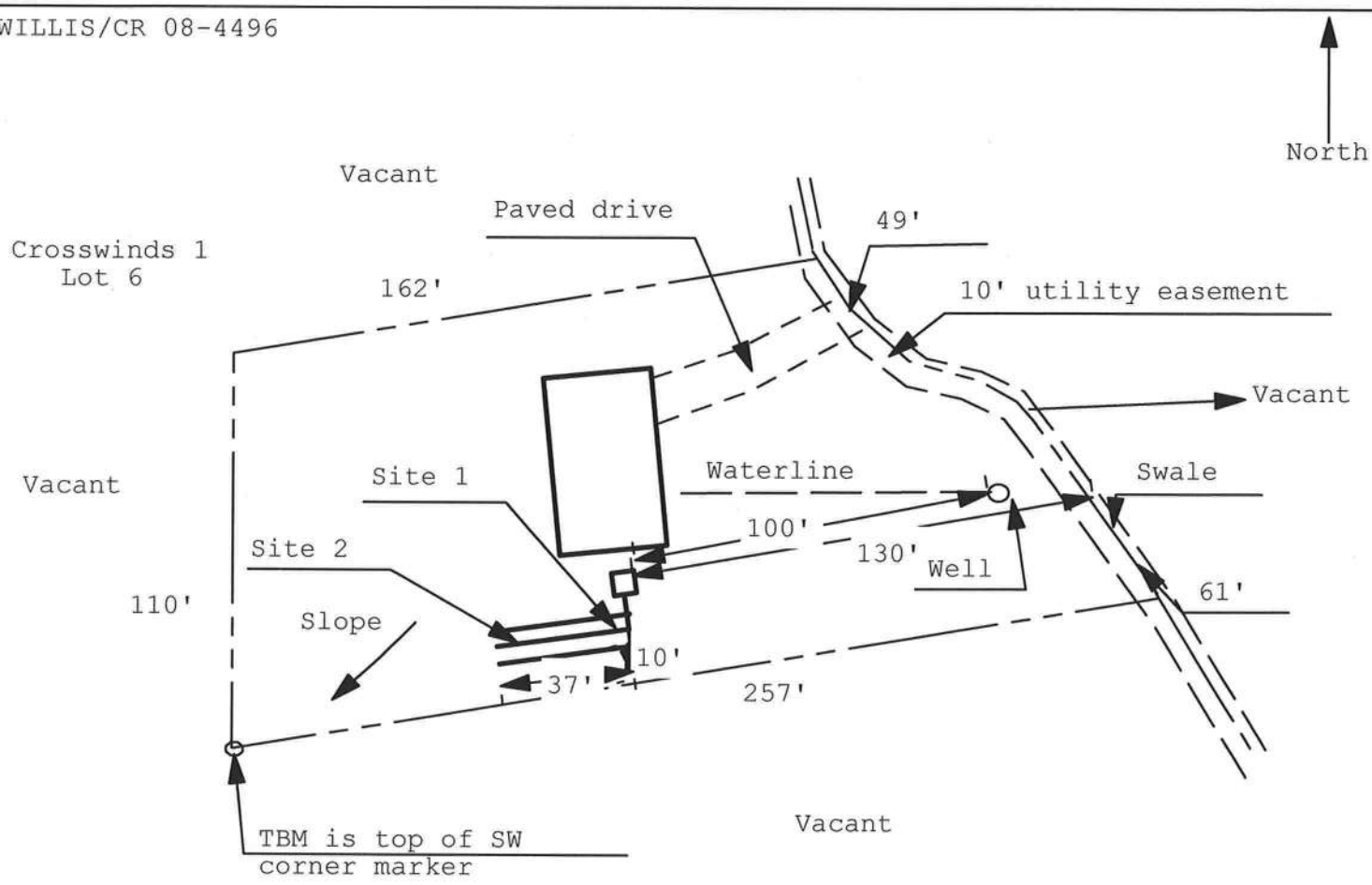
Notes: _____

# *Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan*

***Permit Application Number:*** 08-0702

***ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT***

WILLIS/CR 08-4496




1 inch = 50 feet

**Site Plan Submitted By** Paul Lord **Date** 10/10/08

**Plan Approved** ✓ **Not Approved** ____ **Date** 10-28-08

**By** [signature] Columbia **CPHU**

**Notes:** ____

SDV

08-0701

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT # 900185
DATE PAID 10/27/08
FEE PAID $ 310.00
RECEIPT # 1026374
CR # 08-4496

LC

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Temporary/Experimental System
[ ] Repair [ ] Abandonment [ ] Other(Specify)

APPLICANT: ~~WADE WILLIS~~ Delta Omega Prop. TELEPHONE: 386-623-3331

AGENT: WADE WILLIS

MAILING ADDRESS: P O BOX 1546 CITY: LAKE CITY STATE: FL ZIP: 32056

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING PLAN AND TO-SCALE SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE.

==========

PROPERTY INFORMATION [IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED]

LOT: 6 BLOCK: N/A SUBDIVISION: CROSSWINDS PHASE 1 DATESUBD: N/A

PROPERTY ID #: 24-4S-16-03117-106 [Section/Township/Range/Parcel] ZONING: SFD

PROPERTY SIZE: 0.51 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: [X] PRIVATE [ ] PUBLIC

PROPERTY STREET ADDRESS: 140 SW ERSKINE

DIRECTIONS TO PROPERTY: STATE ROAD 47 SOUTH, TR ON COUNTY ROAD 242, TR ON ARROWHEAD, TL ON CANNON CREEK, TL INTO CROSSWINDS, TR ON CHESTERFIELD CIRCLE, TR ON ERSKING COURT, LOT ON LEFT

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

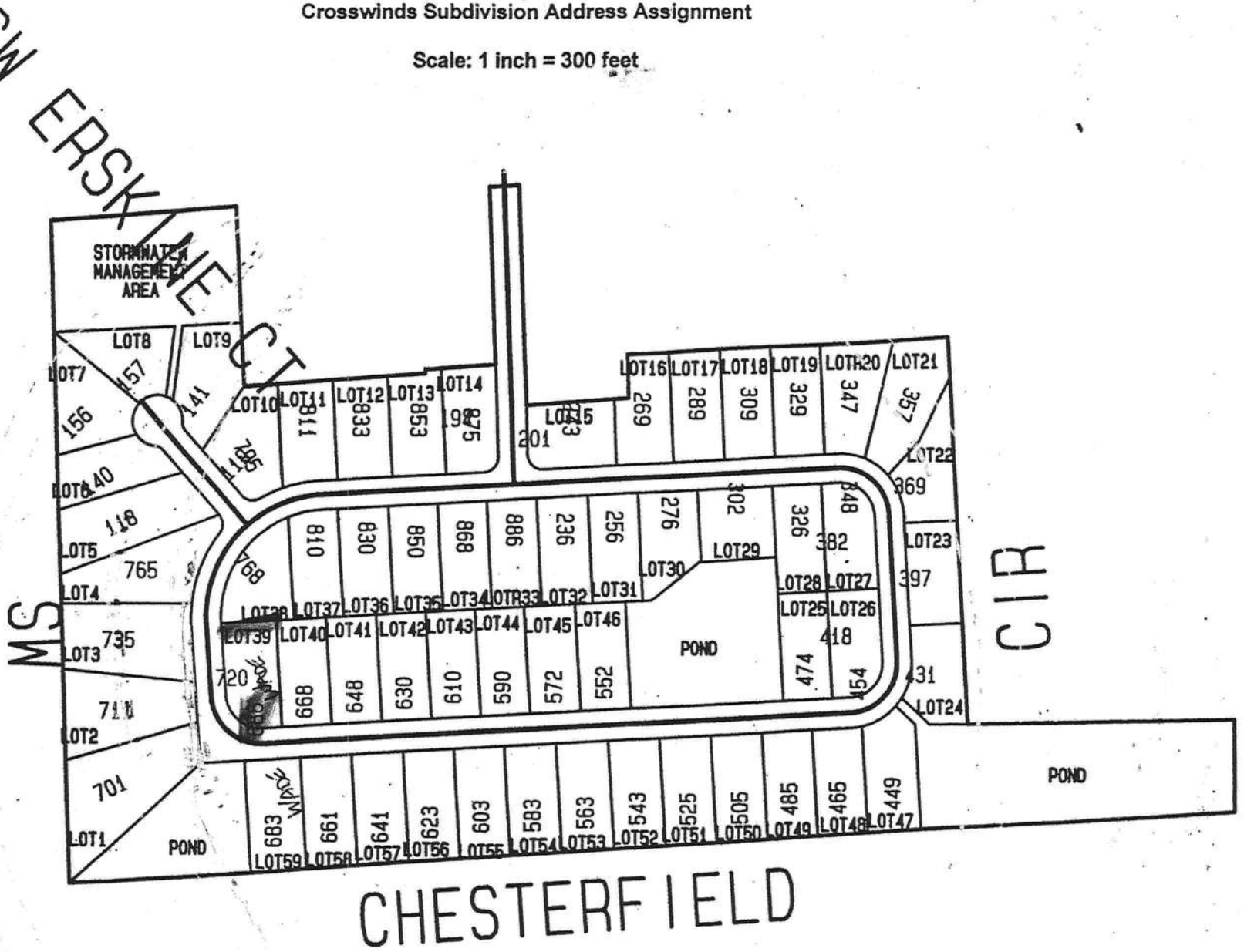
| Unit No | Type of Establishment | No. of Bedrooms | Building Area Sqft | # Persons Served | Business Activity For Commercial Only |
|---|---|---|---|---|---|
| 1 | HOUSE | 3 | 1500 | 4 | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

[N] Garbage Grinders/Disposals
[N] Ultra-low Volume Flush Toilets
[N] Spas/Hot Tubs
[N] Other (Specify)
[N] Floor/Equipment Drains

APPLICANT'S SIGNATURE: DATE: 10/10/08

Columbia County 9-1-1 Addressing / GIS Department
23 May 2006
Crosswinds Subdivision Address Assignment

Scale: 1 inch = 300 feet



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

## Residential Whole Building Performance Method A

| | | | |
|---|---|---|---|
| Project Name: | **809292WadeWillisSpecHouseLot16Crosswinds** | Builder: | **Wade Willis** |
| Address: | **Lot: 16, Sub: Crosswinds, Plat:** | Permitting Office: | Columbia |
| City, State: | **,** | Permit Number: | 27483 |
| Owner: | **Spec House** | Jurisdiction Number: | 221000 |
| Climate Zone: | **North** | | |

| | | | |
|---|---|---|---|
| 1. New construction or existing | New | | |
| 2. Single family or multi-family | Single family | | |
| 3. Number of units, if multi-family | 1 | | |
| 4. Number of Bedrooms | 3 | | |
| 5. Is this a worst case? | Yes | | |
| 6. Conditioned floor area (ft²) | 1490 ft² | | |
| 7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default) | | | |
| a. U-factor: (or Single or Double DEFAULT) | 7a. Description (Dble Default) | Area 170.0 ft² | |
| b. SHGC: (or Clear or Tint DEFAULT) | 7b. (Clear) | 170.0 ft² | |
| 8. Floor types | | | |
| a. Slab-On-Grade Edge Insulation | R=0.0, 173.0(p) ft | | |
| b. N/A | | | |
| c. N/A | | | |
| 9. Wall types | | | |
| a. Frame, Wood, Exterior | R=13.0, 918.0 ft² | | |
| b. Frame, Wood, Adjacent | R=13.0, 275.0 ft² | | |
| c. N/A | | | |
| d. N/A | | | |
| e. N/A | | | |
| 10. Ceiling types | | | |
| a. Under Attic | R=30.0, 1616.0 ft² | | |
| b. N/A | | | |
| c. N/A | | | |
| 11. Ducts | | | |
| a. Sup: Unc. Ret: Unc. AH: Interior | Sup. R=6.0, 150.0 ft | | |
| b. N/A | | | |

| | | |
|---|---|---|
| 12. Cooling systems | | |
| a. Central Unit | Cap: 32.0 kBtu/hr | |
| | SEER: 13.00 | |
| b. N/A | | |
| c. N/A | | |
| 13. Heating systems | | |
| a. Electric Heat Pump | Cap: 32.0 kBtu/hr | |
| | HSPF: 7.80 | |
| b. N/A | | |
| c. N/A | | |
| 14. Hot water systems | | |
| a. Electric Resistance | Cap: 40.0 gallons | |
| | EF: 0.93 | |
| b. N/A | | |
| c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) | | |
| 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating) | | |

Glass/Floor Area: 0.11

Total as-built points: 20310
Total base points: 23415

**PASS**

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

**PREPARED BY:** _____

**DATE:** 10/13/08 EVAN BEAMSLEY

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

**OWNER/AGENT:** _____

**DATE:** _____

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

**BUILDING OFFICIAL:** _____

**DATE:** _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 16, Sub: Crosswinds, Plat: , , ,** PERMIT #:

| BASE | | | | AS-BUILT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GLASS TYPES** .18 X Conditioned Floor Area | X BSPM | = Points | | Type/SC | Overhang Ornt | Len | Hgt | Area X | SPM X | SOF | = Points | |
| .18 | 1490.0 | 20.04 | 5374.7 | Double, Clear | S | 1.5 | 6.0 | 60.0 | 35.87 | 0.86 | 1842.5 | |
| | | | | Double, Clear | S | 10.0 | 6.0 | 40.0 | 35.87 | 0.46 | 663.2 | |
| | | | | Double, Clear | S | 10.0 | 7.0 | 20.0 | 35.87 | 0.48 | 342.8 | |
| | | | | Double, Clear | N | 1.5 | 6.0 | 20.0 | 19.20 | 0.94 | 360.4 | |
| | | | | Double, Clear | N | 5.0 | 5.0 | 24.0 | 19.20 | 0.71 | 327.6 | |
| | | | | Double, Clear | E | 1.5 | 4.0 | 6.0 | 42.06 | 0.82 | 205.8 | |
| | | | | **As-Built Total:** | | | | **170.0** | | | **3742.4** | |
| **WALL TYPES** | Area X | BSPM = | Points | Type | | | R-Value | Area X | SPM = | | Points | |
| Adjacent | 275.0 | 0.70 | 192.5 | Frame, Wood, Exterior | | | 13.0 | 918.0 | 1.50 | | 1377.0 | |
| Exterior | 918.0 | 1.70 | 1560.6 | Frame, Wood, Adjacent | | | 13.0 | 275.0 | 0.60 | | 165.0 | |
| **Base Total:** | **1193.0** | | **1753.1** | **As-Built Total:** | | | | **1193.0** | | | **1542.0** | |
| **DOOR TYPES** | Area X | BSPM = | Points | Type | | | | Area X | SPM = | | Points | |
| Adjacent | 18.0 | 1.60 | 28.8 | Exterior Insulated | | | | 20.0 | 4.10 | | 82.0 | |
| Exterior | 40.0 | 4.10 | 164.0 | Exterior Insulated | | | | 20.0 | 4.10 | | 82.0 | |
| | | | | Adjacent Insulated | | | | 18.0 | 1.60 | | 28.8 | |
| **Base Total:** | **58.0** | | **192.8** | **As-Built Total:** | | | | **58.0** | | | **192.8** | |
| **CEILING TYPES** | Area X | BSPM = | Points | Type | | | R-Value | Area X | SPM X SCM = | | Points | |
| Under Attic | 1490.0 | 1.73 | 2577.7 | Under Attic | | | 30.0 | 1616.0 | 1.73 X 1.00 | | 2795.7 | |
| **Base Total:** | **1490.0** | | **2577.7** | **As-Built Total:** | | | | **1616.0** | | | **2795.7** | |
| **FLOOR TYPES** | Area X | BSPM = | Points | Type | | | R-Value | Area X | SPM = | | Points | |
| Slab | 173.0(p) | -37.0 | -6401.0 | Slab-On-Grade Edge Insulation | | | 0.0 | 173.0(p | -41.20 | | -7127.6 | |
| Raised | 0.0 | 0.00 | 0.0 | | | | | | | | | |
| **Base Total:** | | | **-6401.0** | **As-Built Total:** | | | | **173.0** | | | **-7127.6** | |
| **INFILTRATION** | Area X | BSPM = | Points | | | | | Area X | SPM = | | Points | |
| | 1490.0 | 10.21 | 15212.9 | | | | | 1490.0 | 10.21 | | 15212.9 | |

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 16, Sub: Crosswinds, Plat: , , ,** PERMIT #:

| BASE | | | AS-BUILT | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Summer Base Points: 18710.2** | | | **Summer As-Built Points: 16358.1** | | | | | |
| Total Summer Points | X System Multiplier | = Cooling Points | Total Component (System - Points) | X Cap Ratio | X Duct Multiplier (DM x DSM x AHU) | X System Multiplier | X Credit Multiplier | = Cooling Points |
| | | | (sys 1: Central Unit 32000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) | | | | | |
| | | | 16358 | 1.00 | (1.09 x 1.147 x 0.91) | 0.263 | 1.000 | 4886.1 |
| **18710.2** | **0.4266** | **7981.8** | **16358.1** | **1.00** | **1.138** | **0.263** | **1.000** | **4886.1** |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 16, Sub: Crosswinds, Plat: , , ,** PERMIT #:

| BASE | | | | AS-BUILT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GLASS TYPES** .18 X Conditioned Floor Area | X BWPM | = Points | | Type/SC | Overhang Ornt | Len | Hgt | Area X | WPM X | WOF | = Points | |
| **.18** | **1490.0** | **12.74** | **3416.9** | Double, Clear | S | 1.5 | 6.0 | 60.0 | 13.30 | 1.12 | 891.7 | |
| | | | | Double, Clear | S | 10.0 | 6.0 | 40.0 | 13.30 | 3.40 | 1809.0 | |
| | | | | Double, Clear | S | 10.0 | 7.0 | 20.0 | 13.30 | 3.22 | 856.7 | |
| | | | | Double, Clear | N | 1.5 | 6.0 | 20.0 | 24.58 | 1.00 | 492.7 | |
| | | | | Double, Clear | N | 5.0 | 5.0 | 24.0 | 24.58 | 1.02 | 600.6 | |
| | | | | Double, Clear | E | 1.5 | 4.0 | 6.0 | 18.79 | 1.07 | 121.1 | |
| | | | | **As-Built Total:** | | | | **170.0** | | | **4771.9** | |
| **WALL TYPES** | Area X | BWPM = | Points | Type | | | R-Value | Area X | WPM = | | Points | |
| Adjacent | 275.0 | 3.60 | 990.0 | Frame, Wood, Exterior | | | 13.0 | 918.0 | 3.40 | | 3121.2 | |
| Exterior | 918.0 | 3.70 | 3396.6 | Frame, Wood, Adjacent | | | 13.0 | 275.0 | 3.30 | | 907.5 | |
| **Base Total:** | **1193.0** | | **4386.6** | **As-Built Total:** | | | | **1193.0** | | | **4028.7** | |
| **DOOR TYPES** | Area X | BWPM = | Points | Type | | | | Area X | WPM = | | Points | |
| Adjacent | 18.0 | 8.00 | 144.0 | Exterior Insulated | | | | 20.0 | 8.40 | | 168.0 | |
| Exterior | 40.0 | 8.40 | 336.0 | Exterior Insulated | | | | 20.0 | 8.40 | | 168.0 | |
| | | | | Adjacent Insulated | | | | 18.0 | 8.00 | | 144.0 | |
| **Base Total:** | **58.0** | | **480.0** | **As-Built Total:** | | | | **58.0** | | | **480.0** | |
| **CEILING TYPES** | Area X | BWPM = | Points | Type | | | R-Value | Area X | WPM X | WCM = | Points | |
| Under Attic | 1490.0 | 2.05 | 3054.5 | Under Attic | | | 30.0 | 1616.0 | 2.05 X | 1.00 | 3312.8 | |
| **Base Total:** | **1490.0** | | **3054.5** | **As-Built Total:** | | | | **1616.0** | | | **3312.8** | |
| **FLOOR TYPES** | Area X | BWPM = | Points | Type | | | R-Value | Area X | WPM = | | Points | |
| Slab | 173.0(p) | 8.9 | 1539.7 | Slab-On-Grade Edge Insulation | | | 0.0 | 173.0(p | 18.80 | | 3252.4 | |
| Raised | 0.0 | 0.00 | 0.0 | | | | | | | | | |
| **Base Total:** | | | **1539.7** | **As-Built Total:** | | | | **173.0** | | | **3252.4** | |
| **INFILTRATION** | Area X | BWPM = | Points | | | | | Area X | WPM = | | Points | |
| | 1490.0 | -0.59 | -879.1 | | | | | 1490.0 | -0.59 | | -879.1 | |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 16, Sub: Crosswinds, Plat: , , ,** PERMIT #:

| BASE | | | AS-BUILT | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Winter Base Points:** | | **11998.6** | **Winter As-Built Points:** | | | | | **14966.7** |
| Total Winter Points | X System Multiplier | = Heating Points | Total Component (System - Points) | X Cap Ratio | X Duct Multiplier (DM x DSM x AHU) | X System Multiplier | X Credit Multiplier | = Heating Points |
| | | | (sys 1: Electric Heat Pump 32000 btuh ,EFF(7.8) Ducts:Unc(S),Unc(R),Int(AH),R6.0 | | | | | |
| | | | 14966.7 | 1.000 | (1.069 x 1.169 x 0.93) | 0.437 | 1.000 | 7604.3 |
| **11998.6** | **0.6274** | **7527.9** | **14966.7** | **1.00** | **1.162** | **0.437** | **1.000** | **7604.3** |

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 16, Sub: Crosswinds, Plat: , , ,** PERMIT #:

| BASE | | | | AS-BUILT | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **WATER HEATING** | | | | | | | | | | | |
| Number of Bedrooms | X | Multiplier | = Total | Tank Volume | EF | Number of Bedrooms | X Tank Ratio | X Multiplier | X Credit Multiplier | = Total | |
| 3 | | 2635.00 | 7905.0 | 40.0 | 0.93 | 3 | 1.00 | 2606.67 | 1.00 | 7820.0 | |
| | | | | **As-Built Total:** | | | | | | **7820.0** | |

## CODE COMPLIANCE STATUS

| BASE | | | | AS-BUILT | | | |
|---|---|---|---|---|---|---|---|
| Cooling Points + | Heating Points + | Hot Water Points = | Total Points | Cooling Points + | Heating Points + | Hot Water Points = | Total Points |
| **7982** | **7528** | **7905** | **23415** | **4886** | **7604** | **7820** | **20310** |

# PASS

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 16, Sub: Crosswinds, Plat: , , ,** PERMIT #:

### 6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

| COMPONENTS | SECTION | REQUIREMENTS FOR EACH PRACTICE | CHECK |
|---|---|---|---|
| Exterior Windows & Doors | 606.1.ABC.1.1 | Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area. | |
| Exterior & Adjacent Walls | 606.1.ABC.1.2.1 | Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate. | |
| Floors | 606.1.ABC.1.2.2 | Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams. | |
| Ceilings | 606.1.ABC.1.2.3 | Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams. | |
| Recessed Lighting Fixtures | 606.1.ABC.1.2.4 | Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested. | |
| Multi-story Houses | 606.1.ABC.1.2.5 | Air barrier on perimeter of floor cavity between floors. | |
| Additional Infiltration reqts | 606.1.ABC.1.3 | Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air. | |

### 6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

| COMPONENTS | SECTION | REQUIREMENTS | CHECK |
|---|---|---|---|
| Water Heaters | 612.1 | Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required. | |
| Swimming Pools & Spas | 612.1 | Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. | |
| Shower heads | 612.1 | Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG. | |
| Air Distribution Systems | 610.1 | All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation. | |
| HVAC Controls | 607.1 | Separate readily accessible manual or automatic thermostat for each system. | |
| Insulation | 604.1, 602.1 | Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11. | |

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE* = 85.8**

**The higher the score, the more efficient the home.**

Spec House, Lot: 16, Sub: Crosswinds, Plat: , , ,

| | | | | | | |
|---|---|---|---|---|---|---|
| 1. | New construction or existing | New | | 12. | Cooling systems | |
| 2. | Single family or multi-family | Single family | | a. | Central Unit | Cap: 32.0 kBtu/hr |
| 3. | Number of units, if multi-family | 1 | | | | SEER: 13.00 |
| 4. | Number of Bedrooms | 3 | | b. | N/A | |
| 5. | Is this a worst case? | Yes | | | | |
| 6. | Conditioned floor area (ft²) | 1490 ft² | | c. | N/A | |
| 7. | Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default) | | | | | |
| a. | U-factor: | Description Area | | 13. | Heating systems | |
| | (or Single or Double DEFAULT) 7a. | (Dble Default) 170.0 ft² | | a. | Electric Heat Pump | Cap: 32.0 kBtu/hr |
| b. | SHGC: | | | | | HSPF: 7.80 |
| | (or Clear or Tint DEFAULT) 7b. | (Clear) 170.0 ft² | | b. | N/A | |
| 8. | Floor types | | | | | |
| a. | Slab-On-Grade Edge Insulation | R=0.0, 173.0(p) ft | | c. | N/A | |
| b. | N/A | | | | | |
| c. | N/A | | | 14. | Hot water systems | |
| 9. | Wall types | | | a. | Electric Resistance | Cap: 40.0 gallons |
| a. | Frame, Wood, Exterior | R=13.0, 918.0 ft² | | | | EF: 0.93 |
| b. | Frame, Wood, Adjacent | R=13.0, 275.0 ft² | | b. | N/A | |
| c. | N/A | | | | | |
| d. | N/A | | | c. | Conservation credits | |
| e. | N/A | | | | (HR-Heat recovery, Solar | |
| 10. | Ceiling types | | | | DHP-Dedicated heat pump) | |
| a. | Under Attic | R=30.0, 1616.0 ft² | | 15. | HVAC credits | |
| b. | N/A | | | | (CF-Ceiling fan, CV-Cross ventilation, | |
| c. | N/A | | | | HF-Whole house fan, | |
| 11. | Ducts | | | | PT-Programmable Thermostat, | |
| a. | Sup: Unc. Ret: Unc. AH: Interior | Sup. R=6.0, 150.0 ft | | | MZ-C-Multizone cooling, | |
| b. | N/A | | | | MZ-H-Multizone heating) | |

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: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

# Residential System Sizing Calculation

## Summary

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

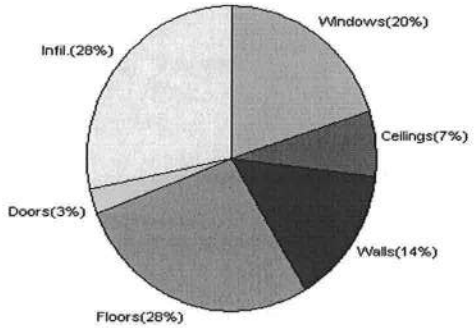
10/13/2008

| Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.) | | | | | |
|---|---|---|---|---|---|
| Winter design temperature | 33 | F | Summer design temperature | 92 | F |
| Winter setpoint | 70 | F | Summer setpoint | 75 | F |
| Winter temperature difference | 37 | F | Summer temperature difference | 17 | F |
| **Total heating load calculation** | **27163** | **Btuh** | **Total cooling load calculation** | **25142** | **Btuh** |
| Submitted heating capacity | % of calc | Btuh | Submitted cooling capacity | % of calc | Btuh |
| Total (Electric Heat Pump) | 117.8 | 32000 | Sensible (SHR = 0.75) | 117.7 | 24000 |
| Heat Pump + Auxiliary(0.0kW) | 117.8 | 32000 | Latent | 168.2 | 8000 |
| | | | Total (Electric Heat Pump) | 127.3 | 32000 |

## WINTER CALCULATIONS

Winter Heating Load (for 1490 sqft)

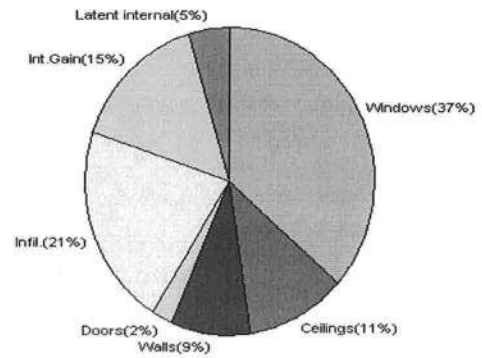
| Load component | | | Load | |
|---|---|---|---|---|
| Window total | 170 | sqft | 5472 | Btuh |
| Wall total | 1193 | sqft | 3918 | Btuh |
| Door total | 58 | sqft | 751 | Btuh |
| Ceiling total | 1616 | sqft | 1904 | Btuh |
| Floor total | 173 | sqft | 7553 | Btuh |
| Infiltration | 187 | cfm | 7564 | Btuh |
| Duct loss | | | 0 | Btuh |
| **Subtotal** | | | **27163** | **Btuh** |
| Ventilation | 0 | cfm | 0 | Btuh |
| **TOTAL HEAT LOSS** | | | **27163** | **Btuh** |




## SUMMER CALCULATIONS

Summer Cooling Load (for 1490 sqft)

| Load component | | | Load | |
|---|---|---|---|---|
| Window total | 170 | sqft | 9219 | Btuh |
| Wall total | 1193 | sqft | 2330 | Btuh |
| Door total | 58 | sqft | 568 | Btuh |
| Ceiling total | 1616 | sqft | 2676 | Btuh |
| Floor total | | | 0 | Btuh |
| Infiltration | 97 | cfm | 1812 | Btuh |
| Internal gain | | | 3780 | Btuh |
| Duct gain | | | 0 | Btuh |
| Sens. Ventilation | 0 | cfm | 0 | Btuh |
| **Total sensible gain** | | | **20385** | **Btuh** |
| Latent gain(ducts) | | | 0 | Btuh |
| Latent gain(infiltration) | | | 3558 | Btuh |
| Latent gain(ventilation) | | | 0 | Btuh |
| Latent gain(internal/occupants/other) | | | 1200 | Btuh |
| **Total latent gain** | | | **4758** | **Btuh** |
| **TOTAL HEAT GAIN** | | | **25142** | **Btuh** |




For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 10/13/08 EVAN BERMSLEY

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

,

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

10/13/2008

**This calculation is for Worst Case. The house has been rotated 315 degrees.**

**Component Loads for Whole House**

| **Window** | Panes/SHGC/Frame/U | Orientation | Area(sqft) X | HTM= | Load |
|---|---|---|---|---|---|
| 1 | 2, Clear, Metal, 0.87 | NW | 60.0 | 32.2 | 1931 Btuh |
| 2 | 2, Clear, Metal, 0.87 | NW | 40.0 | 32.2 | 1288 Btuh |
| 3 | 2, Clear, Metal, 0.87 | NW | 20.0 | 32.2 | 644 Btuh |
| 4 | 2, Clear, Metal, 0.87 | SE | 20.0 | 32.2 | 644 Btuh |
| 5 | 2, Clear, Metal, 0.87 | SE | 24.0 | 32.2 | 773 Btuh |
| 6 | 2, Clear, Metal, 0.87 | SW | 6.0 | 32.2 | 193 Btuh |
| | Window Total | | 170(sqft) | | 5472 Btuh |
| **Walls** | Type | R-Value | Area X | HTM= | Load |
| 1 | Frame - Wood - Ext(0.09) | 13.0 | 918 | 3.3 | 3015 Btuh |
| 2 | Frame - Wood - Adj(0.09) | 13.0 | 275 | 3.3 | 903 Btuh |
| | Wall Total | | 1193 | | 3918 Btuh |
| **Doors** | Type | | Area X | HTM= | Load |
| 1 | Insulated - Adjacent | | 18 | 12.9 | 233 Btuh |
| 2 | Insulated - Exterior | | 20 | 12.9 | 259 Btuh |
| 3 | Insulated - Exterior | | 20 | 12.9 | 259 Btuh |
| | Door Total | | 58 | | 751Btuh |
| **Ceilings** | Type/Color/Surface | R-Value | Area X | HTM= | Load |
| 1 | Vented Attic/D/Shin) | 30.0 | 1616 | 1.2 | 1904 Btuh |
| | Ceiling Total | | 1616 | | 1904Btuh |
| **Floors** | Type | R-Value | Size X | HTM= | Load |
| 1 | Slab On Grade | 0 | 173.0 ft(p) | 43.7 | 7553 Btuh |
| | Floor Total | | 173 | | 7553 Btuh |
| | | | Zone Envelope Subtotal: | | 19599 Btuh |
| **Infiltration** | Type | ACH X | Zone Volume | CFM= | |
| | Natural | 0.94 | 11920 | 186.7 | 7564 Btuh |
| **Ductload** | Unsealed, R6.0, Supply(Attic), Return(Attic) | | | (DLM of 0.00) | 0 Btuh |
| **Zone #1** | | | **Sensible Zone Subtotal** | | **27163 Btuh** |

**WHOLE HOUSE TOTALS**

| | | |
|---|---|---|
| | Subtotal Sensible | 27163 Btuh |
| | Ventilation Sensible | 0 Btuh |
| | Total Btuh Loss | 27163 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

,

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear (
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )

For Florida residences only

# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

,

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

10/13/2008

**This calculation is for Worst Case. The house has been rotated 315 degrees.**

**Component Loads for Zone #1: Main**

| **Window** | Panes/SHGC/Frame/U | Orientation | Area(sqft) X | HTM= | Load |
|---|---|---|---|---|---|
| 1 | 2, Clear, Metal, 0.87 | NW | 60.0 | 32.2 | 1931 Btuh |
| 2 | 2, Clear, Metal, 0.87 | NW | 40.0 | 32.2 | 1288 Btuh |
| 3 | 2, Clear, Metal, 0.87 | NW | 20.0 | 32.2 | 644 Btuh |
| 4 | 2, Clear, Metal, 0.87 | SE | 20.0 | 32.2 | 644 Btuh |
| 5 | 2, Clear, Metal, 0.87 | SE | 24.0 | 32.2 | 773 Btuh |
| 6 | 2, Clear, Metal, 0.87 | SW | 6.0 | 32.2 | 193 Btuh |
| | Window Total | | 170(sqft) | | 5472 Btuh |
| **Walls** | Type | R-Value | Area X | HTM= | Load |
| 1 | Frame - Wood - Ext(0.09) | 13.0 | 918 | 3.3 | 3015 Btuh |
| 2 | Frame - Wood - Adj(0.09) | 13.0 | 275 | 3.3 | 903 Btuh |
| | Wall Total | | 1193 | | 3918 Btuh |
| **Doors** | Type | | Area X | HTM= | Load |
| 1 | Insulated - Adjacent | | 18 | 12.9 | 233 Btuh |
| 2 | Insulated - Exterior | | 20 | 12.9 | 259 Btuh |
| 3 | Insulated - Exterior | | 20 | 12.9 | 259 Btuh |
| | Door Total | | 58 | | 751Btuh |
| **Ceilings** | Type/Color/Surface | R-Value | Area X | HTM= | Load |
| 1 | Vented Attic/D/Shin) | 30.0 | 1616 | 1.2 | 1904 Btuh |
| | Ceiling Total | | 1616 | | 1904Btuh |
| **Floors** | Type | R-Value | Size X | HTM= | Load |
| 1 | Slab On Grade | 0 | 173.0 ft(p) | 43.7 | 7553 Btuh |
| | Floor Total | | 173 | | 7553 Btuh |
| | | | Zone Envelope Subtotal: | | 19599 Btuh |
| **Infiltration** | Type | ACH X | Zone Volume | CFM= | |
| | Natural | 0.94 | 11920 | 186.7 | 7564 Btuh |
| **Ductload** | Unsealed, R6.0, Supply(Attic), Return(Attic) | | | (DLM of 0.00) | 0 Btuh |
| **Zone #1** | | | **Sensible Zone Subtotal** | | **27163 Btuh** |

**WHOLE HOUSE TOTALS**

| | | |
|---|---|---|
| | Subtotal Sensible | 27163 Btuh |
| | Ventilation Sensible | 0 Btuh |
| | Total Btuh Loss | 27163 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

,

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )

For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

,

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 10/13/2008

**This calculation is for Worst Case. The house has been rotated 315 degrees.**

### Component Loads for Whole House

| Window | Type* Pn/SHGC/U/InSh/ExSh/IS | Ornt | Overhang Len | Hgt | Window Area(sqft) Gross | Shaded | Unshaded | HTM Shaded | Unshaded | Load |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2, Clear, 0.87, None,N,N | NW | 1.5ft | 6ft. | 60.0 | 0.0 | 60.0 | 29 | 60 | 3602 Btuh |
| 2 | 2, Clear, 0.87, None,N,N | NW | 10ft. | 6ft. | 40.0 | 0.0 | 40.0 | 29 | 60 | 2401 Btuh |
| 3 | 2, Clear, 0.87, None,N,N | NW | 10ft. | 7ft. | 20.0 | 0.0 | 20.0 | 29 | 60 | 1201 Btuh |
| 4 | 2, Clear, 0.87, None,N,N | SE | 1.5ft | 6ft. | 20.0 | 6.1 | 13.9 | 29 | 63 | 1046 Btuh |
| 5 | 2, Clear, 0.87, None,N,N | SE | 5ft. | 5ft. | 24.0 | 24.0 | 0.0 | 29 | 63 | 695 Btuh |
| 6 | 2, Clear, 0.87, None,N,N | SW | 1.5ft | 4ft. | 6.0 | 3.0 | 3.0 | 29 | 63 | 273 Btuh |
| | Window Total | | | | 170 (sqft) | | | | | 9219 Btuh |

| Walls | Type | R-Value/U-Value | Area(sqft) | HTM | Load |
|---|---|---|---|---|---|
| 1 | Frame - Wood - Ext | 13.0/0.09 | 918.0 | 2.1 | 1915 Btuh |
| 2 | Frame - Wood - Adj | 13.0/0.09 | 275.0 | 1.5 | 415 Btuh |
| | Wall Total | | 1193 (sqft) | | 2330 Btuh |

| Doors | Type | Area (sqft) | HTM | Load |
|---|---|---|---|---|
| 1 | Insulated - Adjacent | 18.0 | 9.8 | 176 Btuh |
| 2 | Insulated - Exterior | 20.0 | 9.8 | 196 Btuh |
| 3 | Insulated - Exterior | 20.0 | 9.8 | 196 Btuh |
| | Door Total | 58 (sqft) | | 568 Btuh |

| Ceilings | Type/Color/Surface | R-Value | Area(sqft) | HTM | Load |
|---|---|---|---|---|---|
| 1 | Vented Attic/DarkShingle | 30.0 | 1616.0 | 1.7 | 2676 Btuh |
| | Ceiling Total | | 1616 (sqft) | | 2676 Btuh |

| Floors | Type | R-Value | Size | HTM | Load |
|---|---|---|---|---|---|
| 1 | Slab On Grade | 0.0 | 173 (ft(p)) | 0.0 | 0 Btuh |
| | Floor Total | | 173.0 (sqft) | | 0 Btuh |

| | | | | | |
|---|---|---|---|---|---|
| | | | Zone Envelope Subtotal: | | 14793 Btuh |
| **Infiltration** | Type | ACH | Volume(cuft) | CFM= | Load |
| | SensibleNatural | 0.49 | 11920 | 97.3 | 1812 Btuh |
| **Internal gain** | | Occupants | Btuh/occupant | Appliance | Load |
| | | 6 | X 230 + | 2400 | 3780 Btuh |
| **Duct load** | Unsealed, R6.0, Supply(Attic), Return(Attic) | | | DGM = 0.00 | 0.0 Btuh |
| | | | **Sensible Zone Load** | | **20385 Btuh** |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

10/13/2008

**WHOLE HOUSE TOTALS**

| | | |
|---|---|---|
| | **Sensible Envelope Load All Zones** | **20385 Btuh** |
| | Sensible Duct Load | 0 Btuh |
| | **Total Sensible Zone Loads** | **20385 Btuh** |
| | Sensible ventilation | 0 Btuh |
| | Blower | 0 Btuh |
| **Whole House** | **Total sensible gain** | **20385 Btuh** |
| **Totals for Cooling** | Latent infiltration gain (for 54 gr. humidity difference) | 3558 Btuh |
| | Latent ventilation gain | 0 Btuh |
| | Latent duct gain | 0 Btuh |
| | Latent occupant gain (6 people @ 200 Btuh per person) | 1200 Btuh |
| | Latent other gain | 0 Btuh |
| | **Latent total gain** | **4758 Btuh** |
| | **TOTAL GAIN** | **25142 Btuh** |

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

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For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

10/13/2008

**This calculation is for Worst Case. The house has been rotated 315 degrees.**

### Component Loads for Zone #1: Main

| Window | Type* Pn/SHGC/U/InSh/ExSh/IS | Ornt | Overhang Len | Hgt | Window Area(sqft) Gross | Shaded | Unshaded | HTM Shaded | Unshaded | Load |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2, Clear, 0.87, None,N,N | NW | 1.5ft | 6ft. | 60.0 | 0.0 | 60.0 | 29 | 60 | 3602 Btuh |
| 2 | 2, Clear, 0.87, None,N,N | NW | 10ft. | 6ft. | 40.0 | 0.0 | 40.0 | 29 | 60 | 2401 Btuh |
| 3 | 2, Clear, 0.87, None,N,N | NW | 10ft. | 7ft. | 20.0 | 0.0 | 20.0 | 29 | 60 | 1201 Btuh |
| 4 | 2, Clear, 0.87, None,N,N | SE | 1.5ft | 6ft. | 20.0 | 6.1 | 13.9 | 29 | 63 | 1046 Btuh |
| 5 | 2, Clear, 0.87, None,N,N | SE | 5ft. | 5ft. | 24.0 | 24.0 | 0.0 | 29 | 63 | 695 Btuh |
| 6 | 2, Clear, 0.87, None,N,N | SW | 1.5ft | 4ft. | 6.0 | 3.0 | 3.0 | 29 | 63 | 273 Btuh |
| | Window Total | | | | 170 (sqft) | | | | | 9219 Btuh |

| Walls | Type | R-Value/U-Value | Area(sqft) | HTM | Load |
|---|---|---|---|---|---|
| 1 | Frame - Wood - Ext | 13.0/0.09 | 918.0 | 2.1 | 1915 Btuh |
| 2 | Frame - Wood - Adj | 13.0/0.09 | 275.0 | 1.5 | 415 Btuh |
| | Wall Total | | 1193 (sqft) | | 2330 Btuh |

| Doors | Type | Area (sqft) | HTM | Load |
|---|---|---|---|---|
| 1 | Insulated - Adjacent | 18.0 | 9.8 | 176 Btuh |
| 2 | Insulated - Exterior | 20.0 | 9.8 | 196 Btuh |
| 3 | Insulated - Exterior | 20.0 | 9.8 | 196 Btuh |
| | Door Total | 58 (sqft) | | 568 Btuh |

| Ceilings | Type/Color/Surface | R-Value | Area(sqft) | HTM | Load |
|---|---|---|---|---|---|
| 1 | Vented Attic/DarkShingle | 30.0 | 1616.0 | 1.7 | 2676 Btuh |
| | Ceiling Total | | 1616 (sqft) | | 2676 Btuh |

| Floors | Type | R-Value | Size | HTM | Load |
|---|---|---|---|---|---|
| 1 | Slab On Grade | 0.0 | 173 (ft(p)) | 0.0 | 0 Btuh |
| | Floor Total | | 173.0 (sqft) | | 0 Btuh |

| | | | | | |
|---|---|---|---|---|---|
| | | | Zone Envelope Subtotal: | | 14793 Btuh |
| **Infiltration** | Type | ACH | Volume(cuft) | CFM= | Load |
| | SensibleNatural | 0.49 | 11920 | 97.3 | 1812 Btuh |
| **Internal gain** | Occupants | Btuh/occupant | | Appliance | Load |
| | 6 | X 230 | + | 2400 | 3780 Btuh |
| **Duct load** | Unsealed, R6.0, Supply(Attic), Return(Attic) | | | DGM = 0.00 | 0.0 Btuh |
| | | | **Sensible Zone Load** | | **20385 Btuh** |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

Class 3 Rating
Registration No. 0
Climate: North

10/13/2008

**WHOLE HOUSE TOTALS**

| | | |
|---|---|---|
| **Whole House Totals for Cooling** | **Sensible Envelope Load All Zones** | **20385 Btuh** |
| | Sensible Duct Load | 0 Btuh |
| | **Total Sensible Zone Loads** | **20385 Btuh** |
| | Sensible ventilation | 0 Btuh |
| | Blower | 0 Btuh |
| | **Total sensible gain** | **20385 Btuh** |
| | Latent infiltration gain (for 54 gr. humidity difference) | 3558 Btuh |
| | Latent ventilation gain | 0 Btuh |
| | Latent duct gain | 0 Btuh |
| | Latent occupant gain (6 people @ 200 Btuh per person) | 1200 Btuh |
| | Latent other gain | 0 Btuh |
| | **Latent total gain** | **4758 Btuh** |
| | **TOTAL GAIN** | **25142 Btuh** |

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

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# Residential Window Diversity

## MidSummer

Spec House

Project Title:
809292WadeWillisSpecHouseLot16Crosswinds

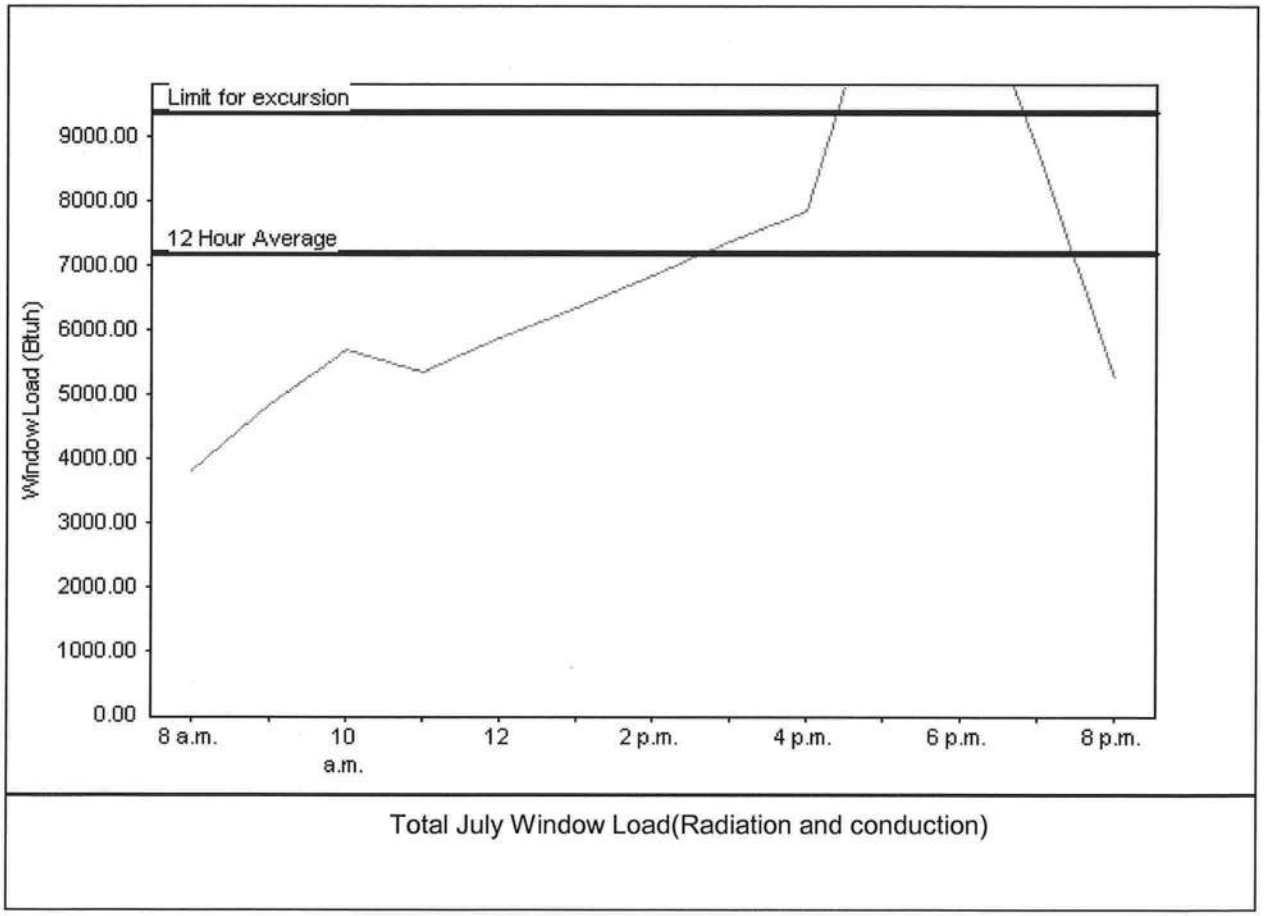
Class 3 Rating
Registration No. 0
Climate: North

10/13/2008

Weather data for: Gainesville - Defaults

| | | | |
|---|---|---|---|
| Summer design temperature | 92 F | Average window load for July | 7191 Btuh |
| Summer setpoint | 75 F | Peak window load for July | 11830 Btu |
| Summer temperature difference | 17 F | Excusion limit(130% of Ave.) | 9348 Btuh |
| Latitude | 29 North | Window excursion (July) | 2483 Btuh |

## WINDOW Average and Peak Loads




Total July Window Load(Radiation and conduction)

This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 10/13/08 EVAN BEAMSLEY

EnergyGauge® FLR2PB v4.1

BOARD OF COUNTY COMMISSIONERS
OFFICE OF

# BUILDING & ZONING

COLUMBIA COUNTY, FLORIDA

# BUILDING PERMIT RECEIPT

RECEIPT NUMBER / PERMIT NUMBER 000028445 DATE 03/23/2010

APPLICANT WADE WILLIS

OWNER DELTA OMEGA PROPERTIES, INC

CONTRACTOR WADE WILLIS

PARCEL ID NUMBER 24-4S-16-03117-106 NUMBER OF EXISTING DWELLINGS 0

TYPE OF DEVELOPMENT RE-ISSUE 27483/SFD

COMMENTS: RE-ISSUANCE OF PERMIT,PERMIT #27483, ONE INSPECTION REMAINING
NOC ON FILE, ONE FOOT ABOVE THE ROAD

## FEES:

BUILDING PERMIT 0.00 CERTIFICATION FEE 0.00

ZONING FEE _____ SURCHARGE FEE 0.00

FLOOD ZONE FEE _____ FLOOD DEVELOPMENT PERMIT _____

MOBILE HOME PERMIT _____ RELOCATION PERMIT _____

TRAVEL TRAILER PERMIT _____ RE-ISSUE PERMIT 50.00

UTILITY POLE PERMIT _____ WASTE ASSESSMENT FEE _____

FIRE FEE (5 ACRES OR LESS) _____ CULVERT PERMIT _____

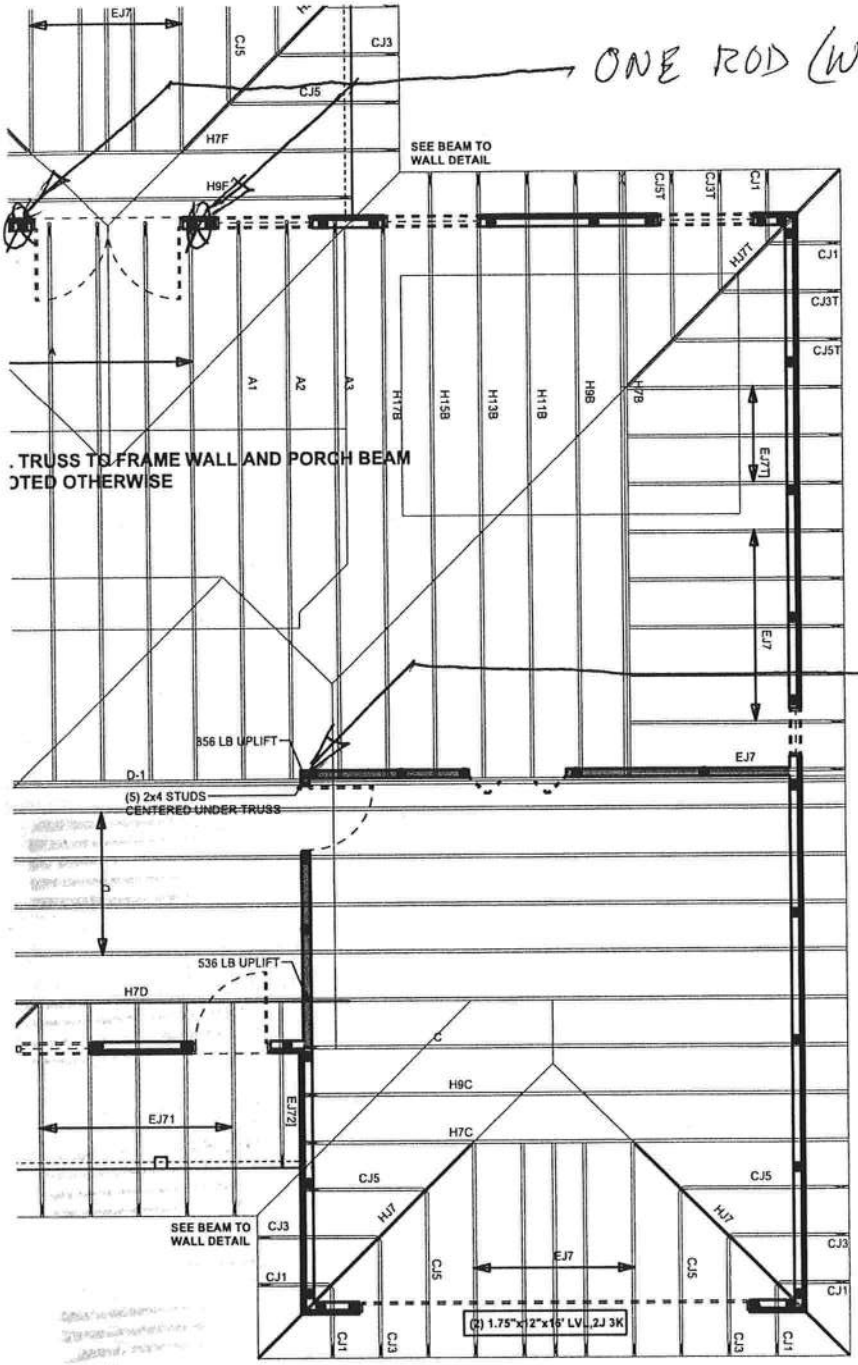
FIRE FEE (MORE THAN 5 ACRES) _____

CHECK NUMBER _____ **TOTAL FEES CHARGES 50.00**

MAKE CHECKS PAYABLE TO: BCC (Board of County Commissioners)

NOTE: A SEPARATE CHECK IS REQUIRED FOR THE CULVERT WAIVER PERMITS

135 NE HERNANDO AVE.
SUITE B-21
LAKE CITY, FL 32055
Phone: 386-758-1008
Fax: 386-758-2160




ONE ROD (WAS TWO)

#27483

5 STUD PACK MAY INCLUDE CORNER STUDS AND STUDS IN ADJACENT WALL

NOTE: DON'T FORGET BEARING BLOCK

## TOTAL SHEAR WALL SEGMENTS

INDICATES SHEAR WALL SEGMENTS

| | REQUIRED | ACTUAL |
|---|---|---|
| TRANSVERSE | 11331 LB | 38804 LB |
| LONGITUDINAL | 13238 LB | 16568 LB |

WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

DIMENSIONS: Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

COPYRIGHTS AND PROPERTY RIGHTS: Mark Disosway, P.E. hereby expressly reserves its common law copyrights and property rights in these instruments of service. This document is not to be reproduced, altered or copied in any form or manner without first the express written permission and consent of Mark Disosway.

CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section R301.2.1, florida building code residential 2004, to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

MARK DISOSWAY
P.E. 53915

SEAL

ADDENDUM

Mark Disosway
09FEB09

## WALL LEGEND

| | |
|---|---|
| | EXTERIOR WALL |
| | INTERIOR NON-LOAD BEARING WALL |
| | INTERIOR LOAD BEARING WALL w/ NO UPLIFT |
| | INTERIOR LOAD BEARING WALL w/ UPLIFT |

## HEADER LEGEND

(2) 2X12X0',1J 1K ← HEADER/BEAM CALL-OUT (U.N.O.)

- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PLIES IN HEADER

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER. ANDERSON TRUSS JOB #8-247

Wade Willis Construction

Spec House
Lot 16 Crosswinds S/D

ADDRESS:
Lot 16 Crosswinds S/D
Columbia County, Florida

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32056
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871

PRINTED DATE: February 09, 2009

DRAWN BY:

STRUCTURAL BY: Evan Beamsley

FINALS DATE: 04Nov08

JOB NUMBER: 809292a

DRAWING NUMBER: S-3

OF 5 SHEETS

Cal-Tech Testing, Inc. FOUNDATIONS • ASPHALT • SOILS • CONCRETE ENGINEERING • GEOTECHNICAL • ENVIRONMENTAL

# CAL-TECH TESTING, INC.

ENGINEERING & TESTING LABORATORY

P.O. Box 1625, Lake City, FL 32056-1625
4784 Rosselle St. • Jacksonville, FL 32254
2230 Greensboro Hwy., Quincy, FL 32351

Lake City • (386) 755-3633
Fax • (386) 752-5456

Jacksonville • (904) 381-8901
Fax • (904) 381-8902

Quincy • (850) 442-3495
Fax • (850) 442-4008

**JOB NO.:** 08-534
**DATE TESTED:** 10-23-08

## REPORT OF IN-PLACE DENSITY TEST

N W E S

**ASTM METHOD:** ✓ (D-2922) Nuclear _____ (D-2937) Drive Cylinder _____ Other

PROJECT: Crosswinds - Lot 16 #27483

CLIENT: Wade Willis Construction

GENERAL CONTRACTOR: SAME EARTHWORK CONTRACTOR: SAME

SOIL USE (SEE NOTE): (1) SPECIFICATION REQUIREMENTS: 95%

TECHNICIAN: P. Greijo

MODIFIED (ASTM D-1557): ✓ STANDARD (ASTM D-698):

| TEST NO. | TEST LOCATION | TEST: ___DEPTH ___ELEV. ___LIFT | PROCTOR NO. | WET DENS. LBS.CU.FT. | DRY DENS. LBS.CU.FT. | MOIST PERCENT | % MAX. DENS. |
|---|---|---|---|---|---|---|---|
| 1 | 26' S x 16' W of NE Garage Corner | 12" | 08-524-2 | 111.4 | 106.4 | 4.7 | 95.4 |
| 2 | 12' S x 10' E of NW Corner | ↓ | ↓ | 112.8 | 106.7 | 5.7 | 95.7 |
| 3 | Approx Ctr of Rd | ↓ | ↓ | 110.8 | 106.0 | 4.5 | 95.1 |
| 4 | 8' N x 14' E of SW Corner | ↓ | ↓ | 113.3 | 107.2 | 5.7 | 96.1 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

REMARKS:

| PROCTOR NO. | SOIL DESCRIPTION | PROCTOR VALUE | OPT. MOIST. |
|---|---|---|---|
| 08-524-2 | Lt. Gray Fine Sand (CR 240) | 111.5 | 10.2 |
| | | | |
| | | | |

NOTE: 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other

Wade Willis Construction
PO Box 1546
Lake City Fl 32056
Contact # 386-623-3331
Fax 386-961-9963

3/24/2010

Columbia county building department,

Wade Willis Construction is asking for an extention of permit number 27483, a new construction of a spec house for Wade Willis and the owners of Delta Omega Properties. We are asking for an extention in order to receive a CO inspection.

Wade Willis
Owner Wade Willis construction

New permit issued.
28445

Pd $50.00 for completion of house.

# COLUMBIA COUNTY BUILDING DEPARTMENT
# RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST
# FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006
## Supplements and One (1) and Two (2) Family Dwellings

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED 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 FIGURE R301.2(4) of the Residential Code** (Florida Wind speed map) **SHALL BE USED.**

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

## GENERAL REQUIREMENTS;

- o Two (2) complete sets of plans containing the following:
- ✓ All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void
- ✓ Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- ✓ 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 per FBC 106.1.

## Site Plan information including:

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

## Wind-load Engineering Summary, calculations and any details required:

- ✓ Plans or specifications must meet state compliance with FRC Chapter 3
- ✓ The following information must be shown as per section FRC
- ✓ Basic wind speed (3-second gust), miles per hour
- ✓ Wind importance factor and nature of occupancy
- ✓ Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- ✓ The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.

## Elevations Drawing including:

- ✓ All side views of the structure
- ✓ Roof pitch
- ✓ Overhang dimensions and detail with attic ventilation
- ✓ Location, size and height above roof of chimneys
- ✓ Location and size of skylights with Florida Product Approval
- ✓ Number of stories
- ✓ e) Building height from the established grade to the roofs highest peak

## Floor Plan including:

- Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies and raised floor surfaces located more than 30 inches above the floor or grade
- All exterior and interior shear walls indicated
- Shear wall opening shown (Windows, Doors and Garage doors
- Emergency escape and rescue opening in each bedroom (net clear opening shown)
- Safety glazing of glass where needed
- Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FRC)
- Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FRC 311)
- Plans must show and identify accessibility of bathroom (see FRC 322)

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

## Foundation Plans Per FRC 403:

- a) Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling.
- d) Assumed load-bearing valve of soil_____ (psf)
- e) Location of horizontal and vertical steel, for foundation or walls (include # size and type)

## CONCRETE SLAB ON GRADE Per FRC R506

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

## PROTECTION AGAINST TERMITES Per FRC 320:

- 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

## Masonry Walls and Stem walls (load bearing & shear Walls) FRC Section R606

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

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

## Floor Framing System: First and/or second story

- Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer
- Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers
- Girder type, size and spacing to load bearing walls, stem wall and/or priers
- Attachment of joist to girder
- Wind load requirements where applicable
- Show required under-floor crawl space
- Show required amount of ventilation opening for under-floor spaces
- Show required covering of ventilation opening.
- Show the required access opening to access to under-floor spaces
- Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing
- Show Draft stopping, Fire caulking and Fire blocking
- Show fireproofing requirements for garages attached to living spaces, per FRC section R309
- Provide live and dead load rating of floor framing systems (psf).

## WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

- Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls.
- Fastener schedule for structural members per table R602.3 (1) are to be shown.
- 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
- 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.
- Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
- Indicate where pressure treated wood will be placed.
- Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
- A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail

## ROOF SYSTEMS:

- Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
- Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
- Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
- Provide dead load rating of trusses

## Conventional Roof Framing Layout Per FRC 802:

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

## ROOF SHEATHING FRC Table R602,3(2) FRC 803

- Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

## ROOF ASSEMBLIES FRC Chapter 9

- Include all materials which will make up the roof assembles covering; with Florida Product Approval numbers for each component of the roof assembles covering.

## FCB Chapter 13 Florida Energy Efficiency Code for Building Construction

- Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
- Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

## HVAC information shown

- Manual J sizing equipment or equivalent computation
- Exhaust fans locations in bathrooms

## Plumbing Fixture layout shown

- All fixtures waste water lines shall be shown on the foundation plan

## Electrical layout shown including:

- Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- Ceiling fans
- Smoke detectors
- Service panel, sub-panel, location(s) and total ampere ratings

- 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.
- Appliances and HVAC equipment and disconnects
- Arc Fault Circuits (AFCI) in bedrooms

- Notarized Disclosure Statement for Owner Builders

- Notice of Commencement Recorded (in the Columbia County Clerk Office) Notice Of Commencement is required to be filed with the building department Before Any Inspections Will Be Done.

**Private Potable Water**

- Size of pump motor
- Size of pressure tank
- Cycle stop valve if used

**THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS**

- Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.

- Parcel Number: The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

- Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)

- City Approval: If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321

- 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 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 8.8 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 8.7 of the Columbia County Land Development Regulations. CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED. A development permit will also be required. The permit cost is $50.00.

- 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. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ($50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.

- 911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. NOTIFICATION WILL BE GIVEN WHEN THE APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT.

# PRODUCT APPROVAL SPECIFICATION SHEET

**Location:** Emerald Cove Lot 74 **Project Name:** [illegible]

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

| Category/Subcategory | Manufacturer | Product Description | Approval Number(s) |
|---|---|---|---|
| **A. EXTERIOR DOORS** | | | |
| 1. Swinging | THERMTRU | 6'8" STEEL/WOOD upto 6 FT OPEN INCLUDES SIDELITES | 01-0828,08 |
| 2. Sliding | | | |
| 3. Sectional | | | |
| 4. Roll up | | | |
| 5. Automatic | | | |
| 6. Other | | | |
| **B. WINDOWS** | CAPITAL & BETTER BILT. | SINGLE HUNG | AAMA CERT BB/ |
| 1. Single hung | MI Products | 740, 165, 3240, 4250, SERIES | 101/I.S.2.-97 |
| 2. Horizontal Slider | | | CTLA-744W-B |
| 3. Casement | | | |
| 4. Double Hung | | | |
| 5. Fixed | | 740 165 3240 4250 Series | 01-35673.05 |
| 6. Awning | | | |
| 7. Pass -through | | | |
| 8. Projected | | | |
| 9. Mullion | MI Products | 740, 165, 3240, 4250 SERIES | 01-35673.05 |
| 10. Wind Breaker | | | |
| 11 Dual Action | | | |
| 12. Other | | | |
| **C. PANEL WALL** | | | |
| 1. Siding (Sheer Wall) | NORBOARD | 8'-9'x10' OSB WALL Sheathing WIND STROM | NER 108 |
| 2. Soffits | | | |
| 3. EIFS | | | |
| 4. Storefronts | | | |
| 5. Curtain walls | | | |
| 6. Wall louver | | | |
| 7. Glass block | | | |
| 8. Membrane | BARRICADE | BUILDING WRAP FED SPEC. | UU B790A |
| 9. Greenhouse | | | |
| 10. Other | | | |
| **D. ROOFING PRODUCTS** | | | |
| 1. Asphalt Shingles | | | |
| 2. Underlayments | WOODLAND | 15#, 30# FELT | ASTM D-4869 |
| 3. Roofing Fasteners | | | |
| 4. Non-structural Metal Rf | | | |
| 5. Built-Up Roofing | | | |
| 6. Modified Bitumen | | | |
| 7. Single Ply Roofing Sys | | | |
| 8. Roofing Tiles | | | |
| 9. Roofing Insulation | | | |
| 10. Waterproofing | | | |
| 11. Wood shingles /shakes | | | |
| 12. Roofing Slate | | | |

| Category (cont.) | Manufacturer | Product Description | Approval Number(s) |
|---|---|---|---|
| Applied Roof Sys | | | |
| ents-Adhesives – atings | | | |
| Roof Tile Adhesive | | | |
| . Spray Applied Polyurethane Roof | | | |
| 17. Other | | | |
| **E. SHUTTERS** | | | |
| 1. Accordion | | | |
| 2. Bahama | | | |
| 3. Storm Panels | | | |
| 4. Colonial | | | |
| 5. Roll-up | | | |
| 6. Equipment | | | |
| 7. Others | | | |
| **F. SKYLIGHTS** | | | |
| 1. Skylight | | | |
| 2. Other | | | |
| **G. STRUCTURAL COMPONENTS** | | | |
| 1. Wood connector/anchor | SIMPSON STRONG TIE | H-16; SP4, H2.5A, H-10, LSTA, | FL 2822 |
| 2. Truss plates | | | |
| 3. Engineered lumber | ANTHONY | 3½"- 5½" to 24' GW-LAM | ASTM 7182.80 |
| 4. Railing | | | |
| 5. Coolers-freezers | | | |
| 6. Concrete Admixtures | | | |
| 7. Material | | | |
| 8. Insulation Forms | | | |
| 9. Plastics | | | |
| 10. Deck-Roof | NORBOARD | 7/16"-1/2" OSB | NER 108 |
| 11. Wall | | | |
| 12. Sheds | | | |
| 13. Other | | | |
| **H. NEW EXTERIOR ENVELOPE PRODUCTS** | | | |
| 1. | | | |
| 2. | | | |

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 obsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspect on.

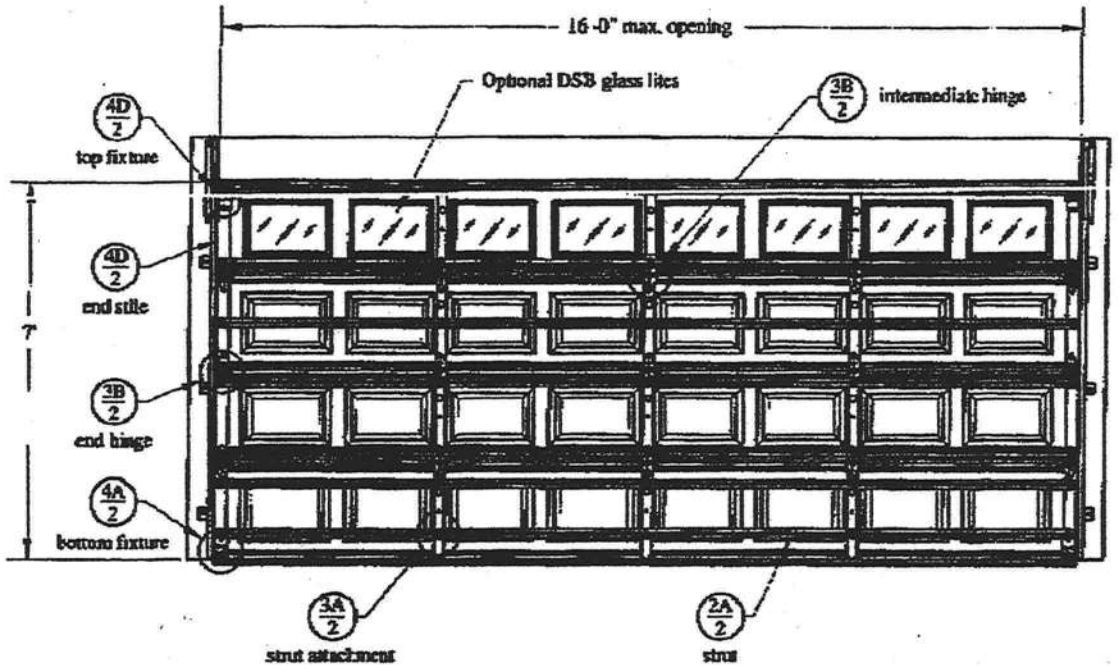
Contractor or Contractor's Authorized Agent Signature

Wade Willis
Print Name

10/23/08
Date

Location

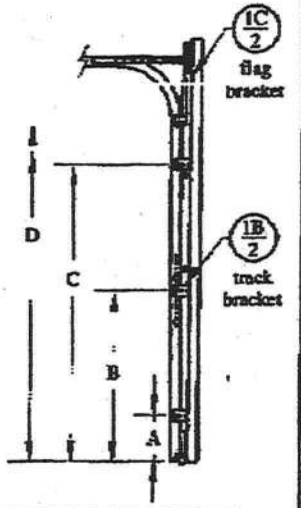
Permit # **(FOR STAFF USE ONLY)**




| Door Model | Gauge | Decimal |
|---|---|---|
| 2250/2251 | 25 | .0185 |
| 4250/4251 | 25 | .0185 |
| 2240/2241 | 24 | .0225 |
| 4240/4241 | 24 | .0225 |
| 5240/5241 | 24 | .0225 |

| door height | section quantity | strut quantity | trk brkt per side |
|---|---|---|---|
| 6'-6" to 7'-6" | 4 | 7 | 3 |
| 7'-6" to 8'-0" | 5 | 8 | 4 |
| 8'-3" to 8'-9" | 5 | 9 | 4 |
| 9'-0" to 10'-6" | 6 | 11 | 5 |
| 10'-9" to 12'-3" | 7 | 12 | 6 |
| 12'-6" to 14'-0" | 8 | 15 | 7 |

Refer to Supplemental Instructions for strut placement on doors over 7'-0" high.




| Track Bracket Chart | | door height | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 6'-6" | 6'-9" | 7'-0" | 7'-6" | 7'-9" | 8'-0" | 8'-3" | 8'-6" | 8'-9" |
| track brackets | D | n/a | n/a | n/a | 72" | 69" | 72" | 81" | 84" | 87" |
| | C | 60" | 53" | 65" | 58" | 55" | 58" | 60" | 63" | 66" |
| | B | 35" | 35" | 38" | 34" | 31" | 34" | 32" | 35" | 38" |
| | A | 10" | 7" | 10" | 10" | 7" | 10" | 4" | 7" | 10" |

Track bracket locations shown above are for doors up to five sections high. Additional door sections may be added for a maximum door height of 14'-0". One track bracket (per track) must be added for each section and spaced at a distance not greater than the corresponding section height.

This door has been tested in accordance with ANSI/DASMA 108-2002
Design Pressure (DP): 18.5 pos / 20.7 neg
Test Pressure (TP): 27.8 pos / 31.1 neg

Per 2004 FBC Table 1609.6E, DP meets or exceeds basic wind speed of;
V= 110 MPH for Exposure B and mean roof height of 33' or less
V= 93 MPH for Exposure C and mean roof height of 30' or less

Maximum door size: 16'-0" wide by 14'-0" tall

Glazing and door have not been tested for windborne debris.

Wood buck and supporting structural elements shall be designed by a registered professional engineer for wind loads shown on this drawing.

If door is not electrically operated, a lock must be installed.

Professional Engineer's seal provided only for verification of windload construction details

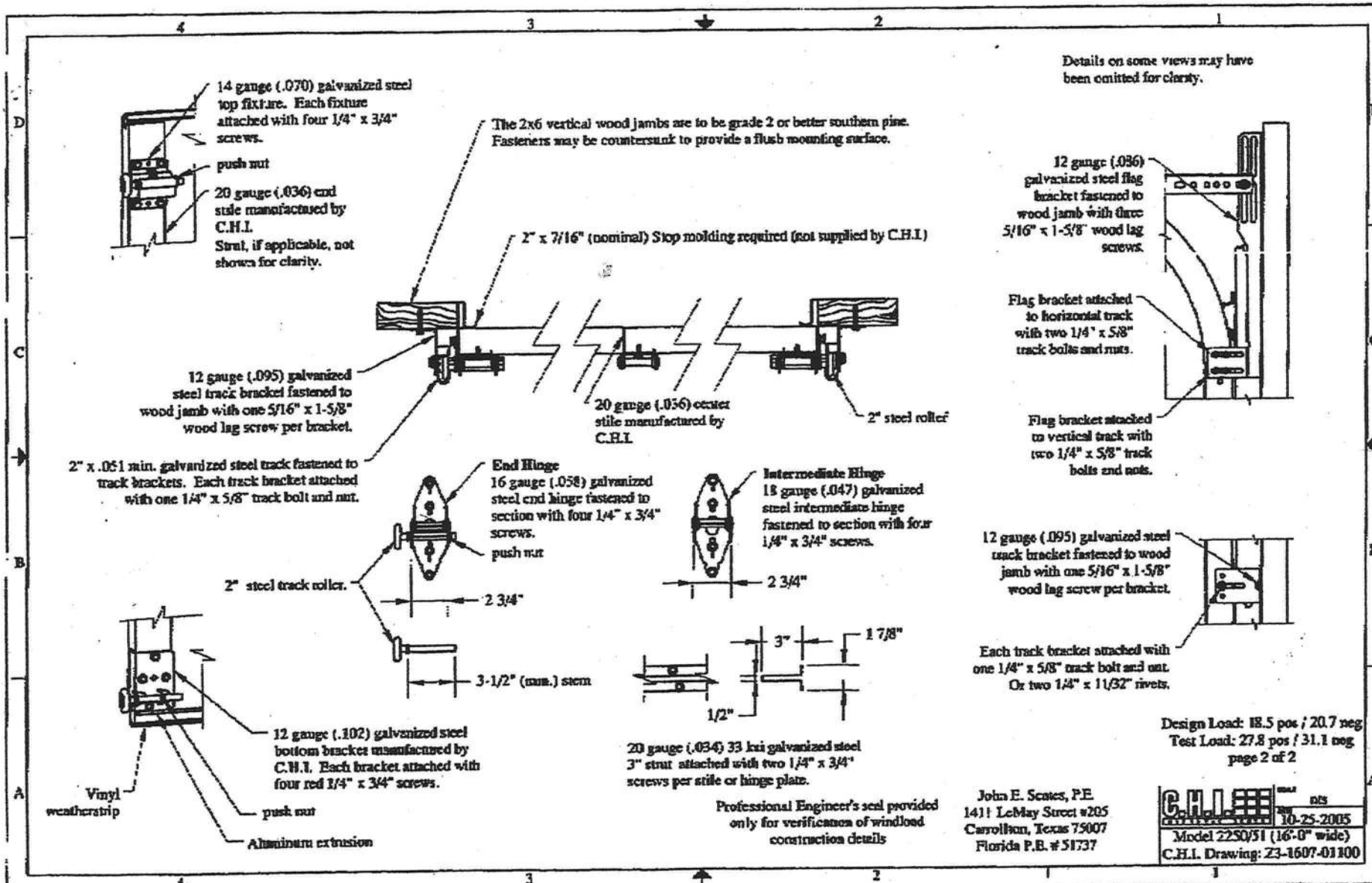
John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737



FL 5519

C.H.I.

nts
10-25-2005
Model 2250/51 (16'-0" wide)
C.H.I. Drawing: Z3-1607-01100


14 gauge (.070) galvanized steel top fixture. Each fixture attached with four 1/4" x 3/4" screws.
push nut
20 gauge (.036) end stile manufactured by C.H.I.
Strut, if applicable, not shown for clarity.
The 2x6 vertical wood jambs are to be grade 2 or better southern pine. Fasteners may be countersunk to provide a flush mounting surface.
2" x 7/16" (nominal) Stop molding required (not supplied by C.H.I.)
12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.
20 gauge (.036) center stile manufactured by C.H.I.
2" steel roller
2" x .051 min. galvanized steel track fastened to track brackets. Each track bracket attached with one 1/4" x 5/8" track bolt and nut.
End Hinge
16 gauge (.058) galvanized steel end hinge fastened to section with four 1/4" x 3/4" screws.
push nut
Intermediate Hinge
18 gauge (.047) galvanized steel intermediate hinge fastened to section with four 1/4" x 3/4" screws.
2" steel track roller.
2 3/4"
2 3/4"
3-1/2" (nom.) stem
3"
1 7/8"
1/2"
20 gauge (.034) 33 ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws per stile or hinge plate.
12 gauge (.102) galvanized steel bottom bracket manufactured by C.H.I. Each bracket attached with four red 1/4" x 3/4" screws.
Vinyl weatherstrip
push nut
Aluminum extrusion
Details on some views may have been omitted for clarity.
12 gauge (.036) galvanized steel flag bracket fastened to wood jamb with three 5/16" x 1-5/8" wood lag screws.
Flag bracket attached to horizontal track with two 1/4" x 5/8" track bolts and nuts.
Flag bracket attached to vertical track with two 1/4" x 5/8" track bolts and nuts.
12 gauge (.095) galvanized steel track bracket fastened to wood jamb with one 5/16" x 1-5/8" wood lag screw per bracket.
Each track bracket attached with one 1/4" x 5/8" track bolt and nut. Or two 1/4" x 11/32" rivets.
Design Load: 18.5 pos / 20.7 neg
Test Load: 27.8 pos / 31.1 neg
page 2 of 2
Professional Engineer's seal provided only for verification of windload construction details
John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737
C.H.I.
DES
10-25-2005
Model 2250/51 (16'-0" wide)
C.H.I. Drawing: Z3-1607-01100

ELK

PRESTIQUE®
HIGH DEFINITION®

RAISED PROFILE®

## Prestique Plus *High Definition* and Prestique Gallery Collection™

Product size 13¼" x 39⅜"
Exposure 5⅝"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 11

50-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*: Wind Coverage: standard 80 mph, extended 110 mph***

## Prestique I *High Definition*

Product size 13¼" x 39⅜"
Exposure 5⅝"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 14

40-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 90 mph***

## Prestique *High Definition*

Product size 13¼" x 38⅝"
Exposure 5⅝"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 80 mph.

## Raised Profile

Product size 13¼" x 38⅝"
Exposure 5⅝"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period: 5-7** years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability*. 5-year limited wind warranty*. Wind Coverage: standard 70 mph.

## HIP AND RIDGE SHINGLES

### Seal-A-Ridge® w/*FLX*™

Size: 12"x12"
Exposure: 6⅛"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

### Vented RidgeCrest™ w/*FLX*™

Size: 13"x13¼"
Exposure: 9⅛"
Pieces/Box: 28
Coverage: 5 boxes = 100 linear feet

## Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors (Check Availability): Antique Slate, Weatherwood, Shakewood, Sablewood, Hickory, Barkwood, Forest Green, Wedgewood, Birchwood, Sandalwood.
Gallery Collection: Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge, and Prestique Starter Strip roofing products contain sealant which activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae.

All Prestique and Raised Profile shingles meet UL* Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type I; D 3161, Type I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles have approval from the Florida Building Code Commission, Metro-Dade County, ICBO, and Texas Department of Insurance.

*See actual limited warranty for conditions and limitations.
** Effective January 1, 2004, the seven year non-prorated Umbrella Coverage Period applies only when a full Elk Roof System is installed with the original installation of the Elk shingles, all in accordance with Elk's application instructions for such products. A full Elk roof system includes Elk Hip and Ridge shingles on all hips and ridges, Elk Starter Strip along all rake and eave edges, an Elk ventilation system, and Elk All-Climate Self-Adhering Underlayment in all valleys. Additionally, Elk All-Climate Self-Adhering Underlayment is required along the rake and eave edges of the roof in and north of the states of VA, KY, MO, KS, CO, UT, NV, & OR.
***For a limited Wind Warranty up to 110 mph for Prestique Gallery Collection, Prestique Plus, or 90 mph for Prestique I or Grand, at least six (6) properly placed NAILS and Elk Starter Strip shingles are required. See application instructions printed on the shingle wrapper for additional requirements.

## SPECIFICATIONS

**Scope:** Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

**Preparation of Roof Deck:** Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

**Materials:** Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater, apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For Low slopes(4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)), use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.


SOUTHEAST & ATLANTIC OFFICE: 800.945.5551

CORPORATE HEADQUARTERS: 800.354.7732

PLANT LOCATION: 800.945.5545

ELK The Premium Choice
www.elkcorp.com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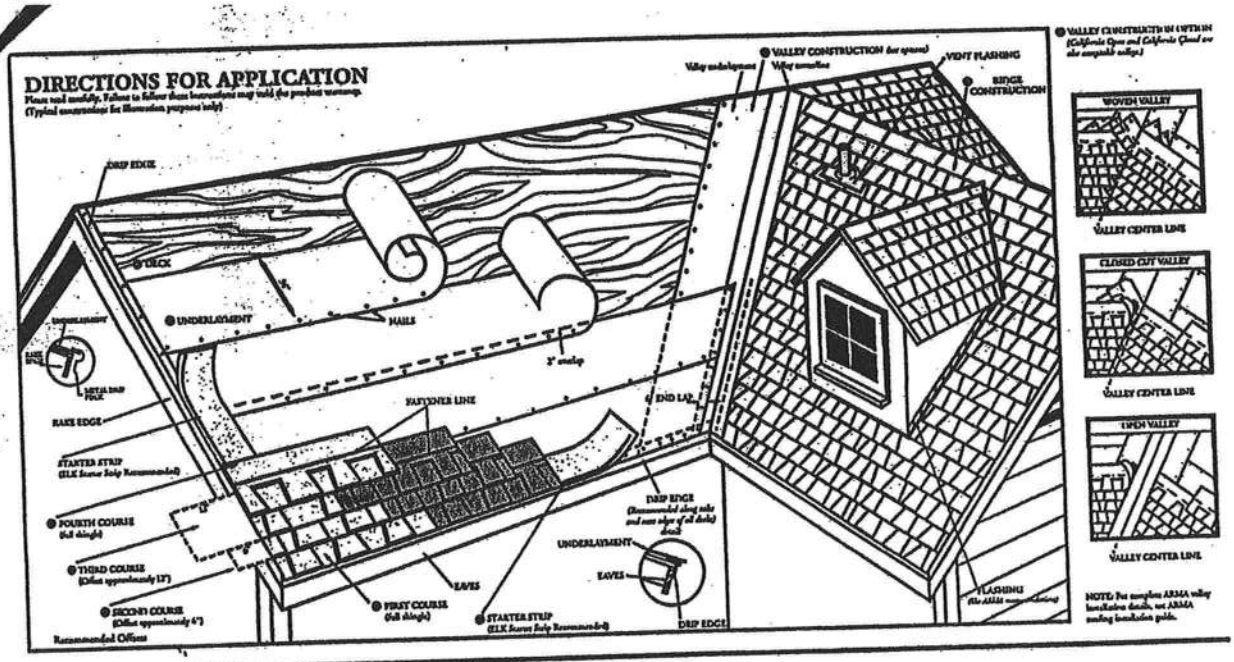



## DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

### ❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 8" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

### ❷ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Elk Versashield® or self adhering underlayment is also acceptable. Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

**EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)**

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Technical Services Department for application specifications over other decks and other slopes.

### ❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADHESIVE STRIP POSITIONED AT THE EAVE EDGE. With at least 3" trimmed from the end of the first shingle, start at the rake edge overhanging the eave and rake edges 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

### ❹ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof

### ❺ SECOND COURSE

Offset the second course of shingles with respect to the first by approximately 6". Other offsets are approved if greater than 4".

### ❻ THIRD COURSE

Offset the next course by 6" with respect to the second course, or consistent with the original offset.

### ❼ FOURTH COURSE

Start at the rake and continue with full shingles across roof.

**FIFTH AND SUCCEEDING COURSES.**

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof. Offsets may be adjusted around valleys and penetrations.

### ❽ VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

### ❾ RIDGE CONSTRUCTION

For ridge construction Elk recommends Class "A" Z®Ridge or Seal-A-Ridge® with formula *FLX*™ or RidgeCrest™ with *FLX* (See ridge package for installation instructions). Vented RidgeCrest or 3-tab shingles are also approved.

**FASTENERS**

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Using the fastener line as a reference, nail or staple the shingle in the double thickness common bond area. For shingles without a fastener line, nails or staples must be placed between and/or in the sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less. This product meets the requirements of the IRC 2003 code when fastened with 4 nails.

**MANSARD APPLICATIONS**

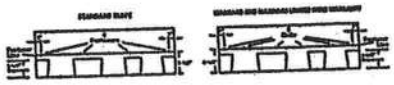
Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

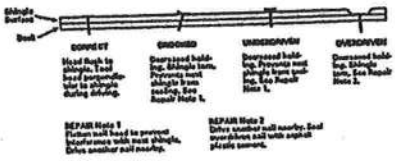
**LIMITED WIND WARRANTY**

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 8 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4 of an inch.

**HELP STOP BLOW-OFFS AND CALL-BACKS**

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.






Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.

All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

ELK
The Premium Choice®
www.elkcorp.com

# HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/jk

# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TLQ8228Z0413164928

| | |
|---|---|
| Truss Fabricator: | Anderson Truss Company |
| Job Identification: | 8-247--Fill in later WADE WILLIS -- , ** |
| Truss Count: | 34 |
| Model Code: | Florida Building Code 2004 and 2006 Supplement |
| Truss Criteria: | ANSI/TPI-2002(STD)/FBC |
| Engineering Software: | Alpine Software,Version 7.36. |
| Structural Engineer of Record: | The identity of the structural EOR did not exist as of |
| Address: | the seal date per section 61G15-31.003(5a) of the FAC |
| Minimum Design Loads: | Roof - 40.0 PSF @ 1.25 Duration |
| | Floor - N/A |
| | Wind - 110 MPH ASCE 7-02 -Closed |

Notes:

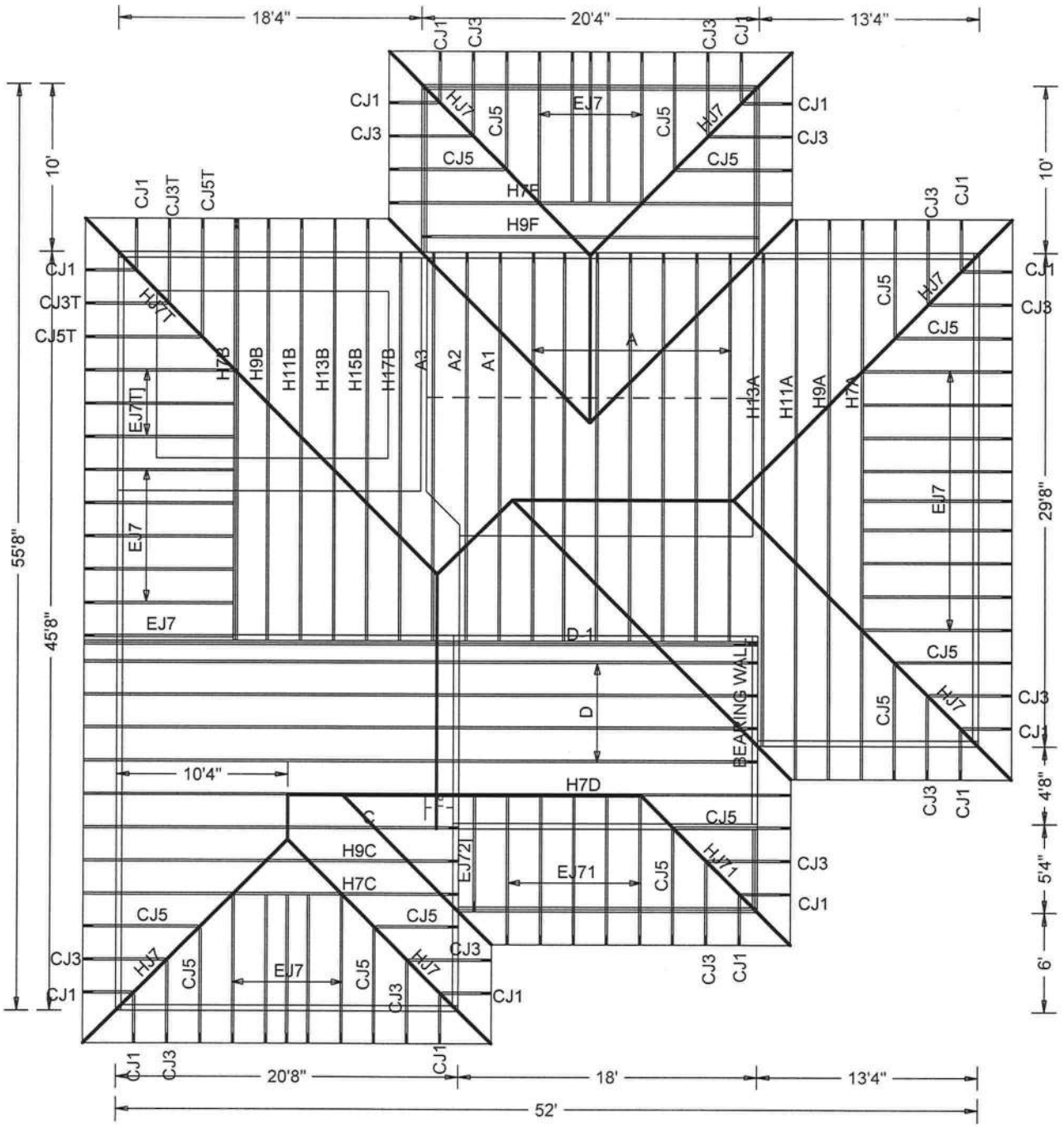
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: BRCLBSUB-A11015EE-GBLLETIN-CNBRGBLK-

Seal Date: 10/13/2008

-Truss Design Engineer-
Doug Fleming
Florida License Number: 66648
1950 Marley Drive
Haines City, FL 33844

| # | Ref Description | Drawing# | Date |
|---|---|---|---|
| 1 | 58183--H7A | 08287017 | 10/13/08 |
| 2 | 58184--H9A | 08287005 | 10/13/08 |
| 3 | 58185--H11A | 08287006 | 10/13/08 |
| 4 | 58186--H13A | 08287007 | 10/13/08 |
| 5 | 58187--A | 08287018 | 10/13/08 |
| 6 | 58188--A1 | 08287019 | 10/13/08 |
| 7 | 58189--A2 | 08287020 | 10/13/08 |
| 8 | 58190--A3 | 08287008 | 10/13/08 |
| 9 | 58191--H17B | 08287009 | 10/13/08 |
| 10 | 58192--H9B | 08287021 | 10/13/08 |
| 11 | 58193--H11B | 08287022 | 10/13/08 |
| 12 | 58194--H7B | 08287023 | 10/13/08 |
| 13 | 58195--H13B | 08287024 | 10/13/08 |
| 14 | 58196--H15B | 08287025 | 10/13/08 |
| 15 | 58197--H7C | 08287026 | 10/13/08 |
| 16 | 58198--C | 08287010 | 10/13/08 |
| 17 | 58199--H9C | 08287011 | 10/13/08 |
| 18 | 58200--H7D | 08287027 | 10/13/08 |
| 19 | 58201--D | 08287028 | 10/13/08 |
| 20 | 58202--D-1 | 08287029 | 10/13/08 |
| 21 | 58203--H7F | 08287030 | 10/13/08 |
| 22 | 58204--H9F | 08287012 | 10/13/08 |
| 23 | 58205--CJ1 | 08287031 | 10/13/08 |
| 24 | 58206--HJ7 | 08287032 | 10/13/08 |
| 25 | 58207--HJ71 | 08287033 | 10/13/08 |
| 26 | 58208--HJ7T | 08287034 | 10/13/08 |
| 27 | 58209--CJ3 | 08287035 | 10/13/08 |
| 28 | 58210--CJ5 | 08287013 | 10/13/08 |
| 29 | 58211--EJ7 | 08287001 | 10/13/08 |
| 30 | 58212--EJ71 | 08287036 | 10/13/08 |
| 31 | 58213--CJ3T | 08287014 | 10/13/08 |
| 32 | 58214--CJ5T | 08287015 | 10/13/08 |
| 33 | 58215--EJ7T] | 08287016 | 10/13/08 |
| 34 | 58216--EJ72] | 08287037 | 10/13/08 |




# WADE WILLIS / LOT 16 CROSSWINDS

JOB DESCRIPTION:: Fill in later
/: WADE WILLIS

JOB NO:
8-247

PAGE NO:
1 OF 1

(8-247--Fill in later WADE WILLIS -- , ** - H7A)

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

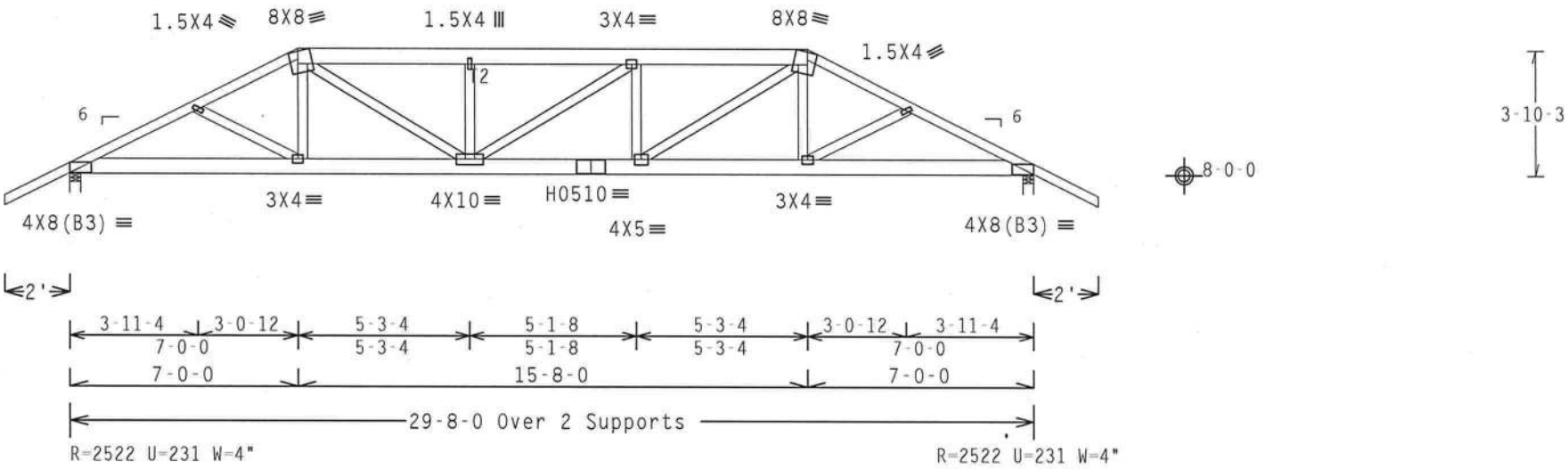
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

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




Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.36.00 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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**IMPORTANT**FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58183 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287017 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45432 |
| DUR.FAC. | 1.25 | | |
| SPACING | SEE ABOVE | JREF- | 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H9A)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

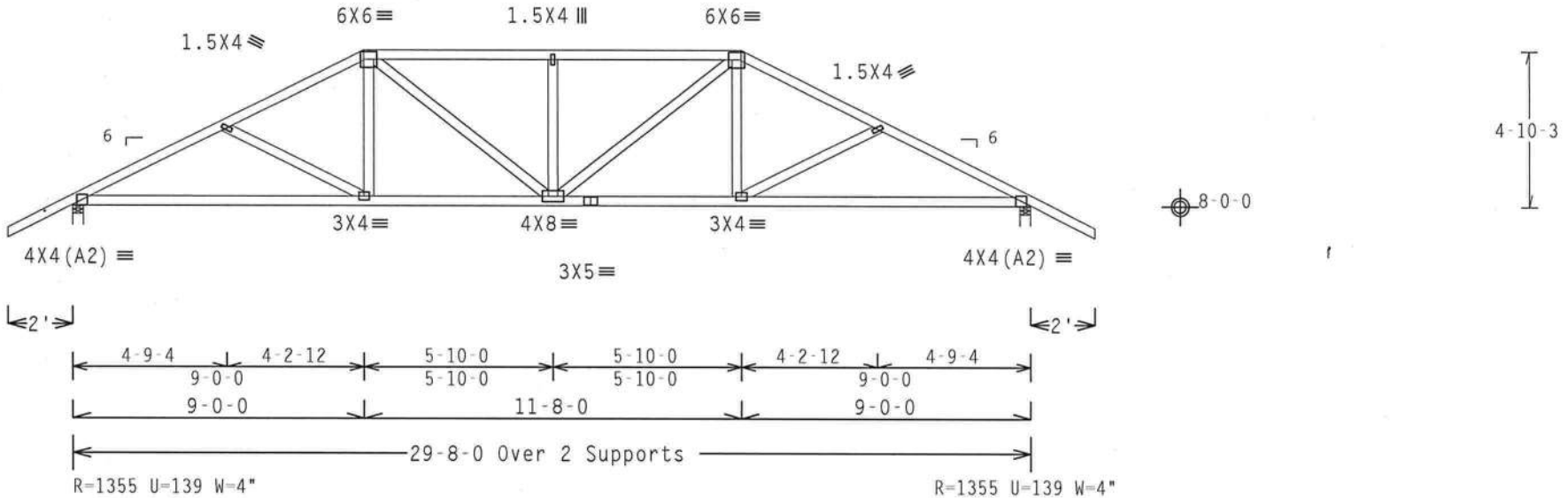
Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Oct 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58184 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287005 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- | 45437 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H11A)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

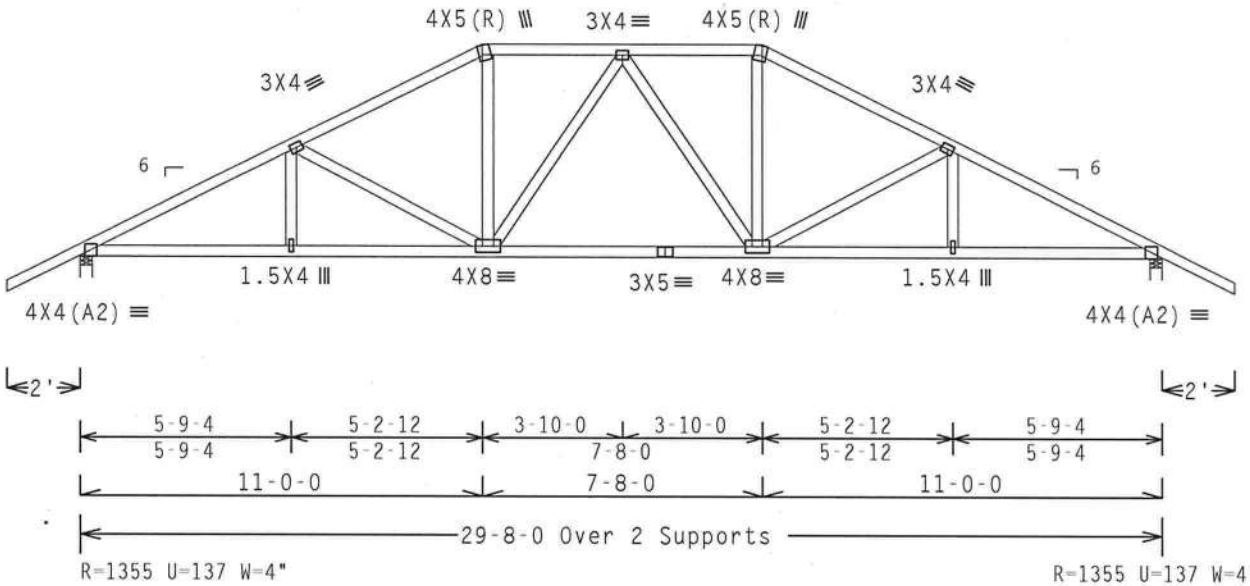
Roof overhang supports 2.00 psf soffit load.

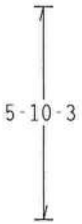
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

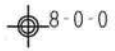
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.00.0 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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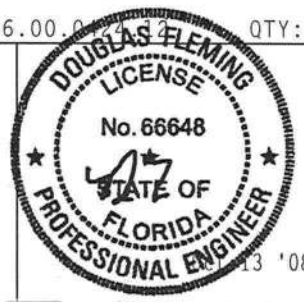



13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58185 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287006 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- 45442 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H13A)

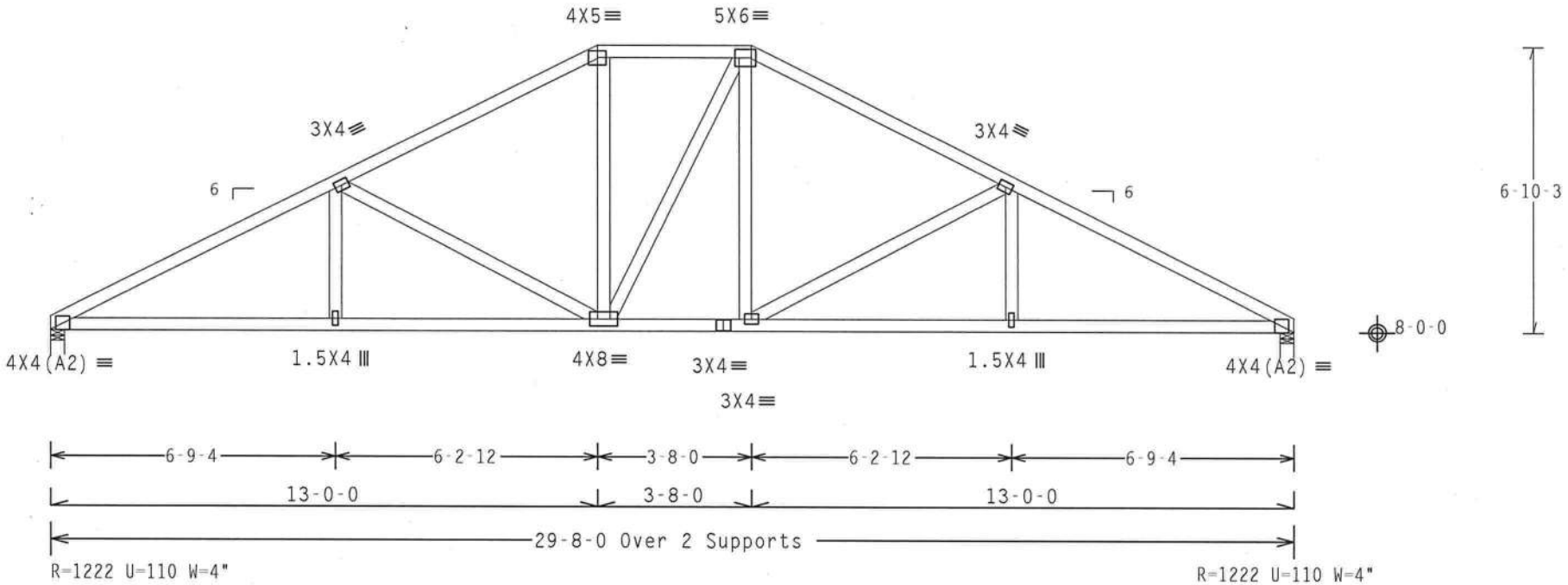
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible]

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] 13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58186 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287007 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- 45448 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - A)

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

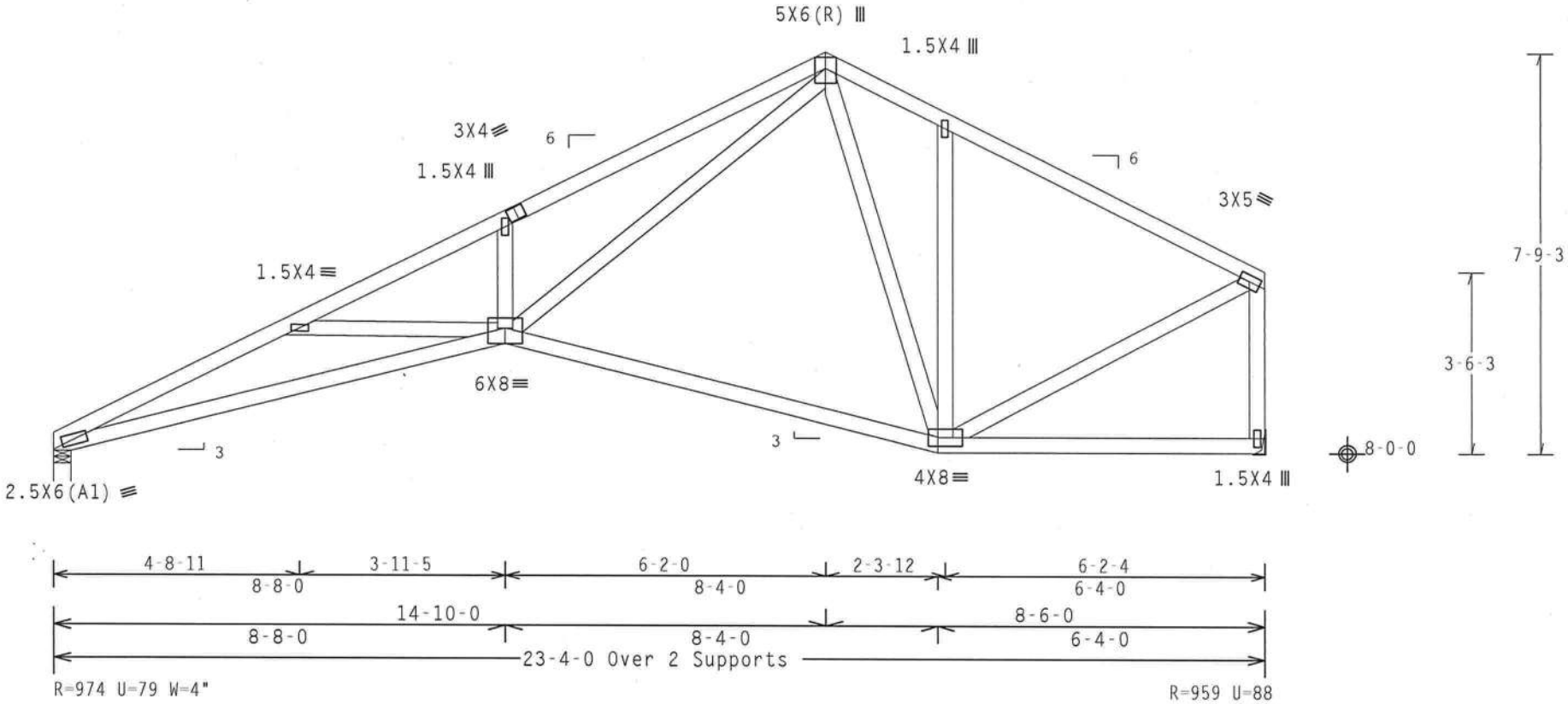
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.00.0 [illegible] QTY:7 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible]13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58187 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287018 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 45457 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - A1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

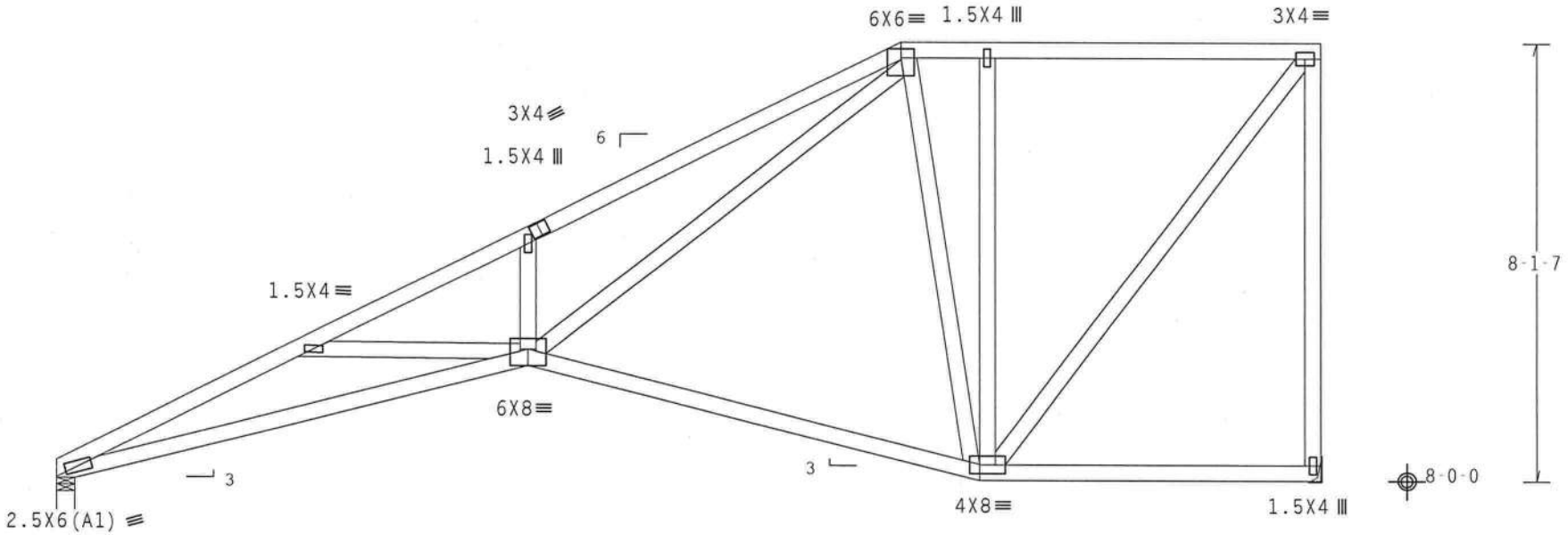
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

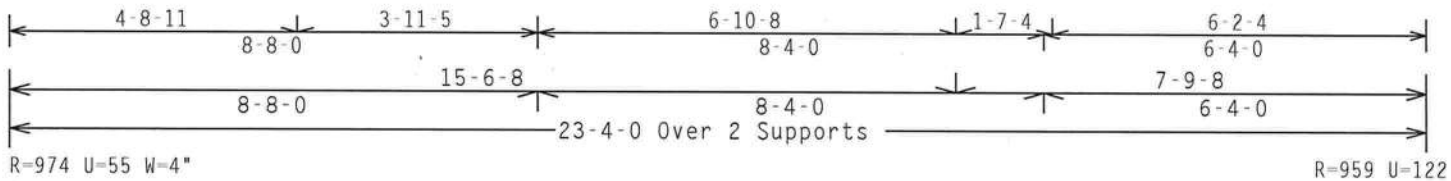
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58188 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287019 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45465 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - A2)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.

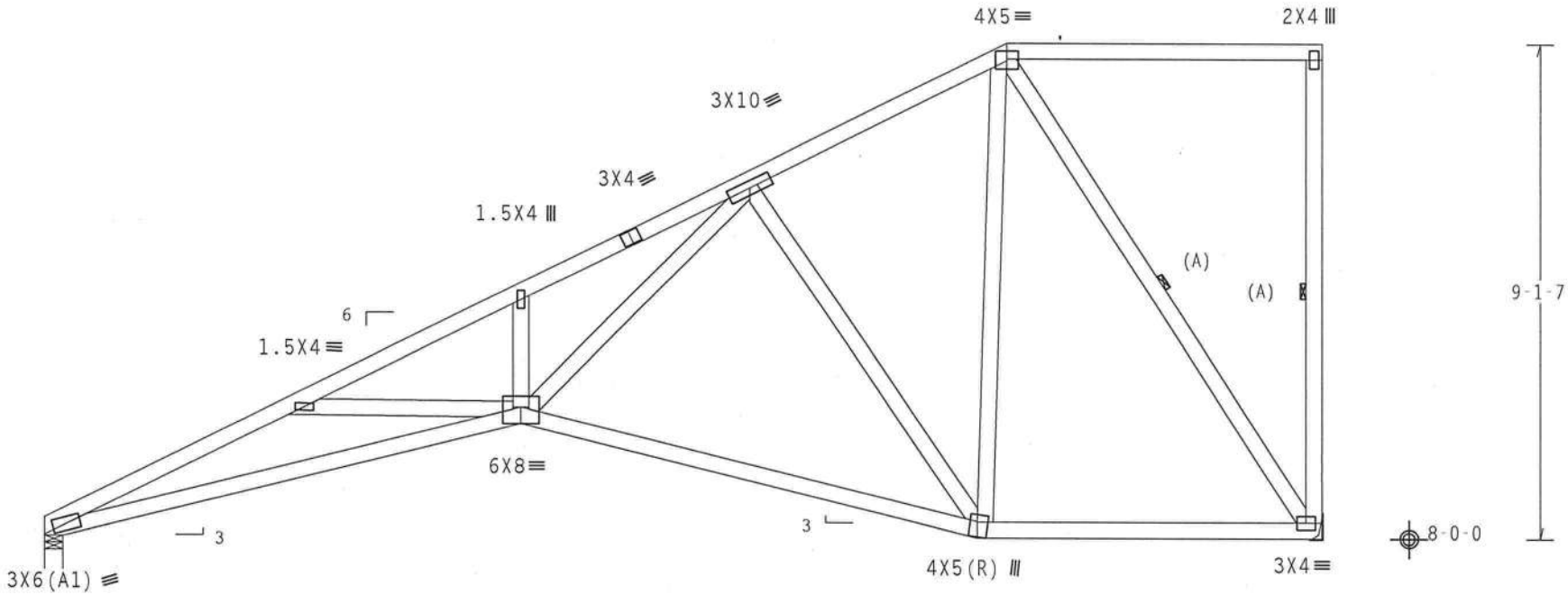
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

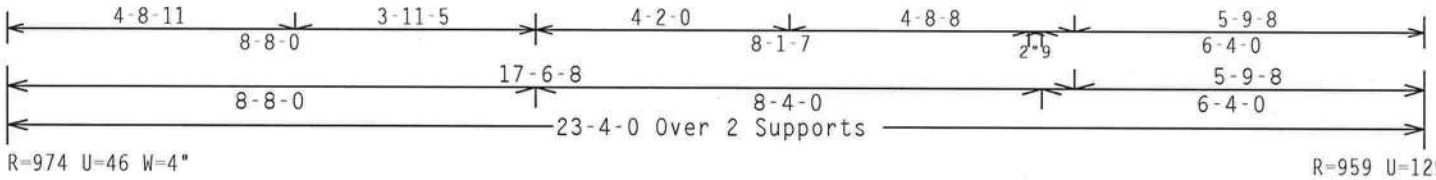
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.00 0/2 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58189 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287020 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 45471 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - A3)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.

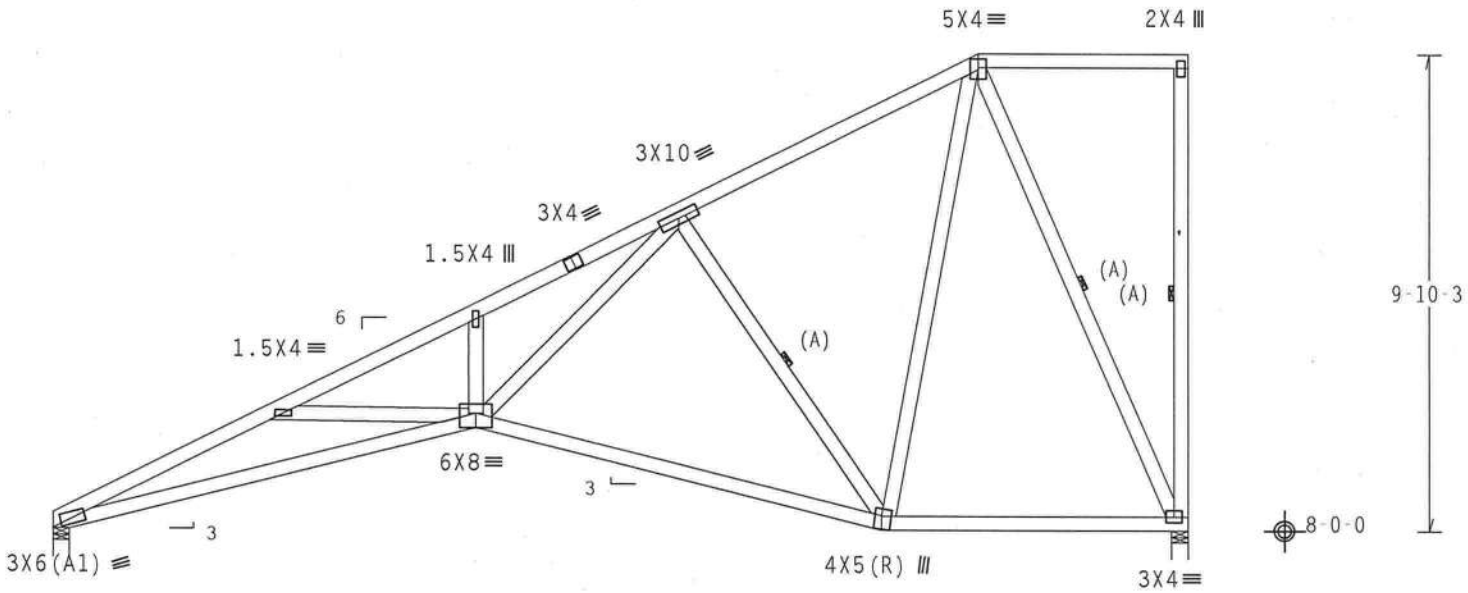
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

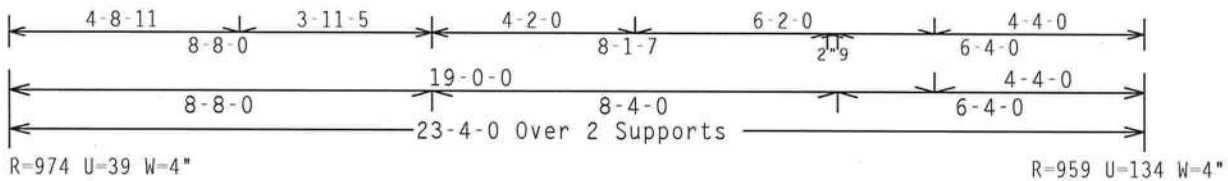
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58190 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287008 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- 45476 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

(8-24/--Fill in later WADE WILLIS -- , ** - H17B)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.

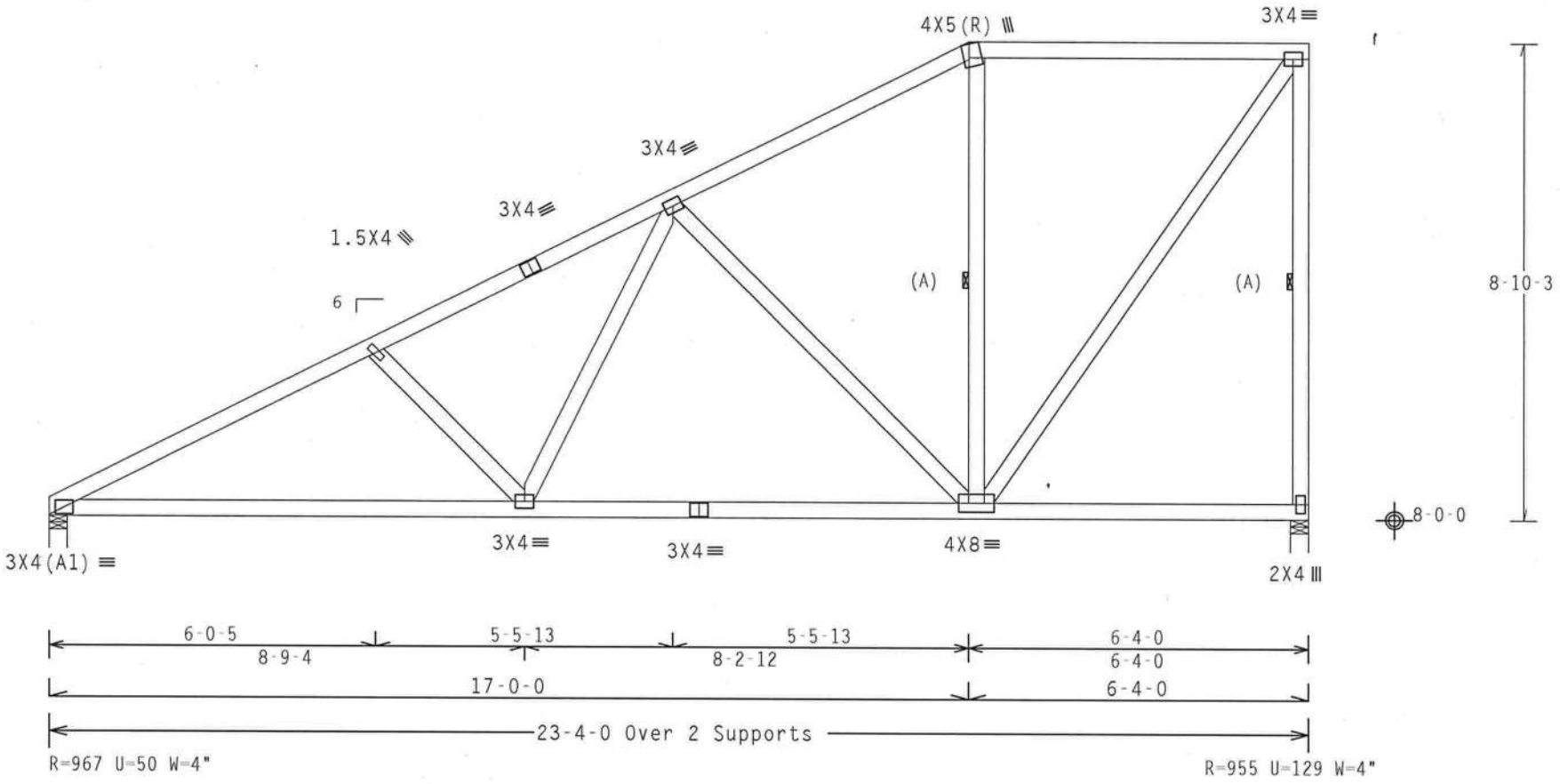
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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




PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58191 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287009 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- | 45481 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H9B)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

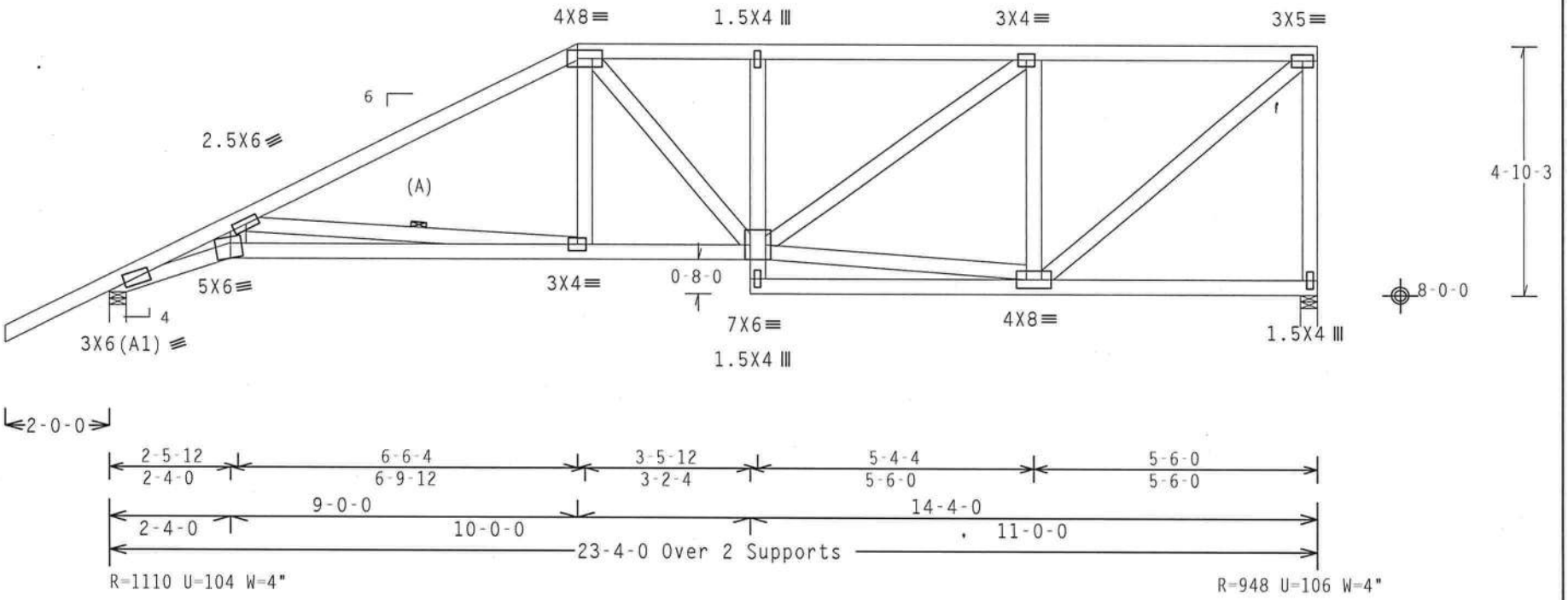
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.00 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58192 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287021 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 45496 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H11B)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

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

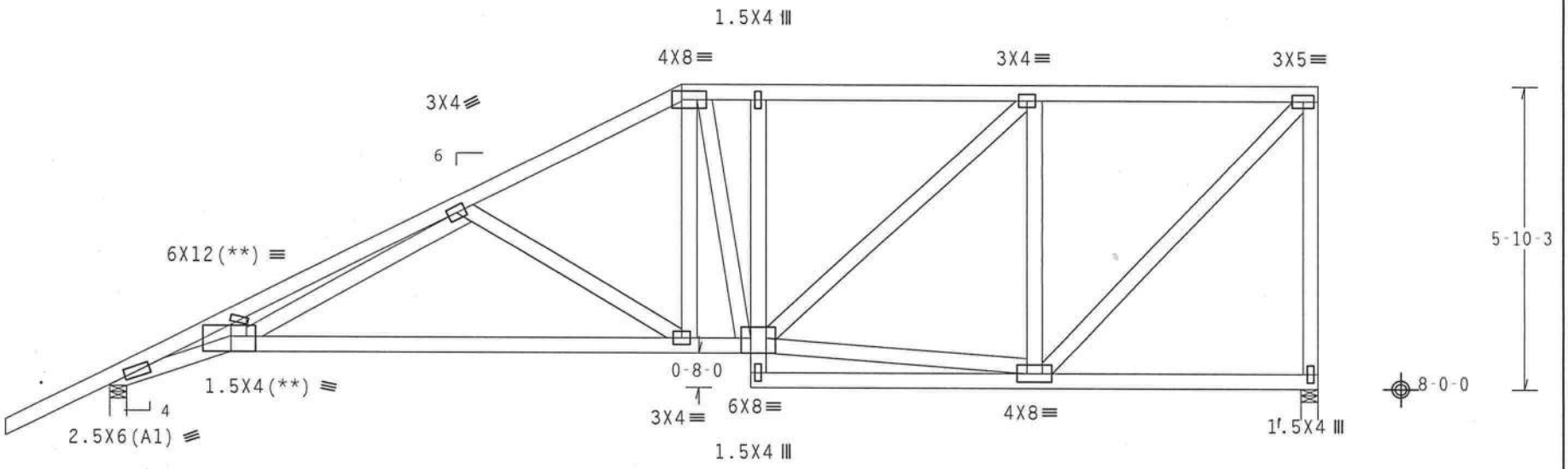
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

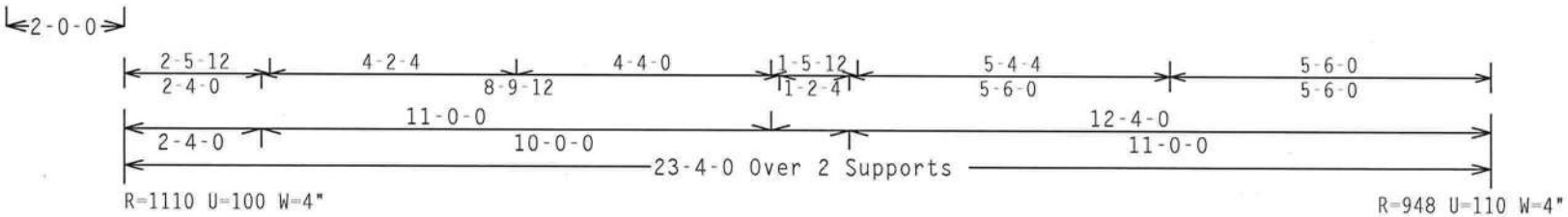
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58193 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287022 |
| BC LL | 0.0 PSF | | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45500 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H7B)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

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

Left side jacks have 7-0-0 setback with 0-0-2 cant and 2-0-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. Right side jacks have 0-0-0 setback with 0-0-0 cant and 0-0-0 overhang.

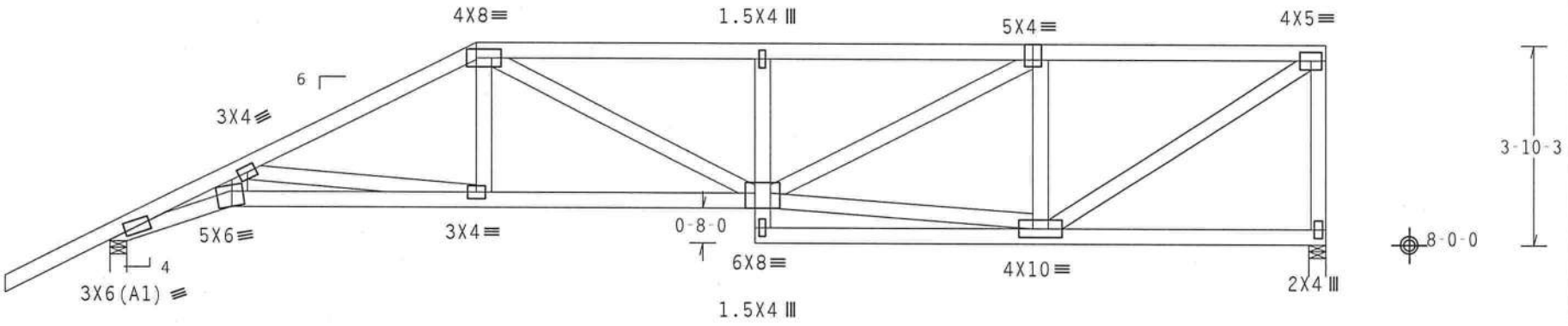
## 2 COMPLETE TRUSSES REQUIRED

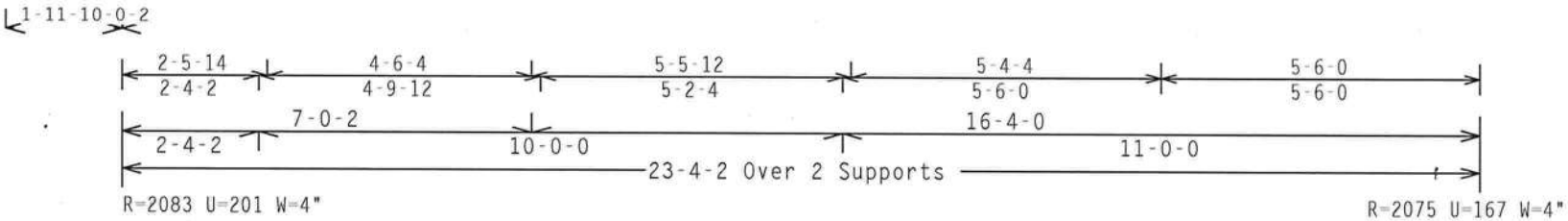
Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Right end vertical not exposed to wind pressure.

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

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




PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 0[illegible]13 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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**IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58194 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287023 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45514 |
| DUR.FAC. | 1.25 | | |
| SPACING | SEE ABOVE | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H13B)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

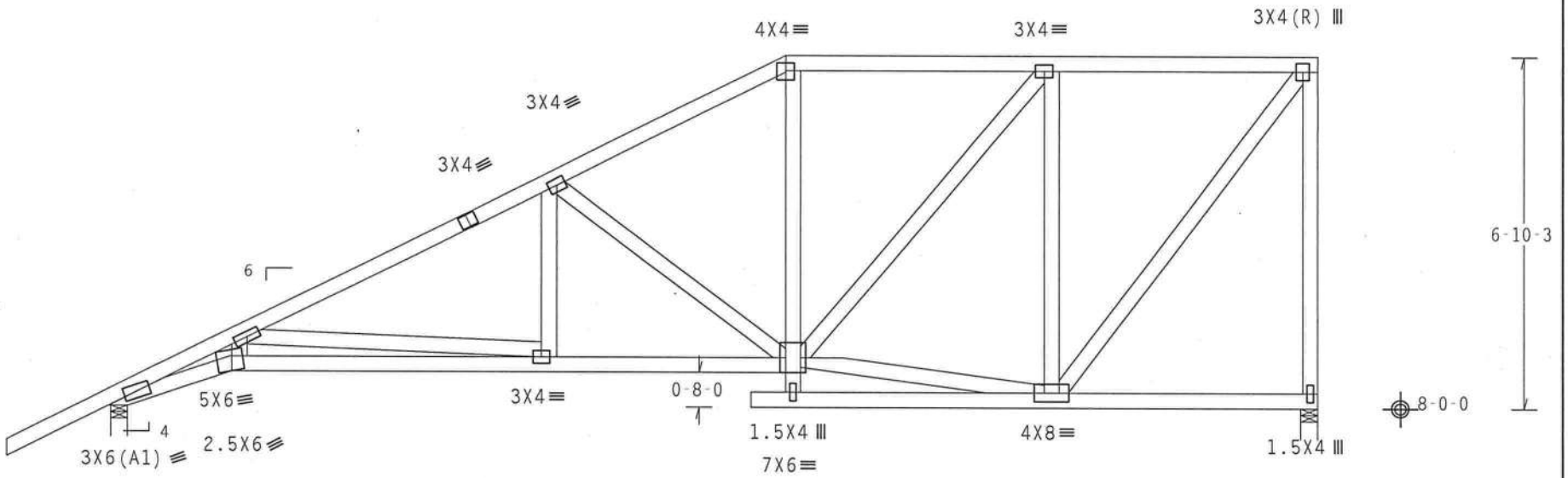
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 0-12-12

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58195 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287024 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 45521 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H15B)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

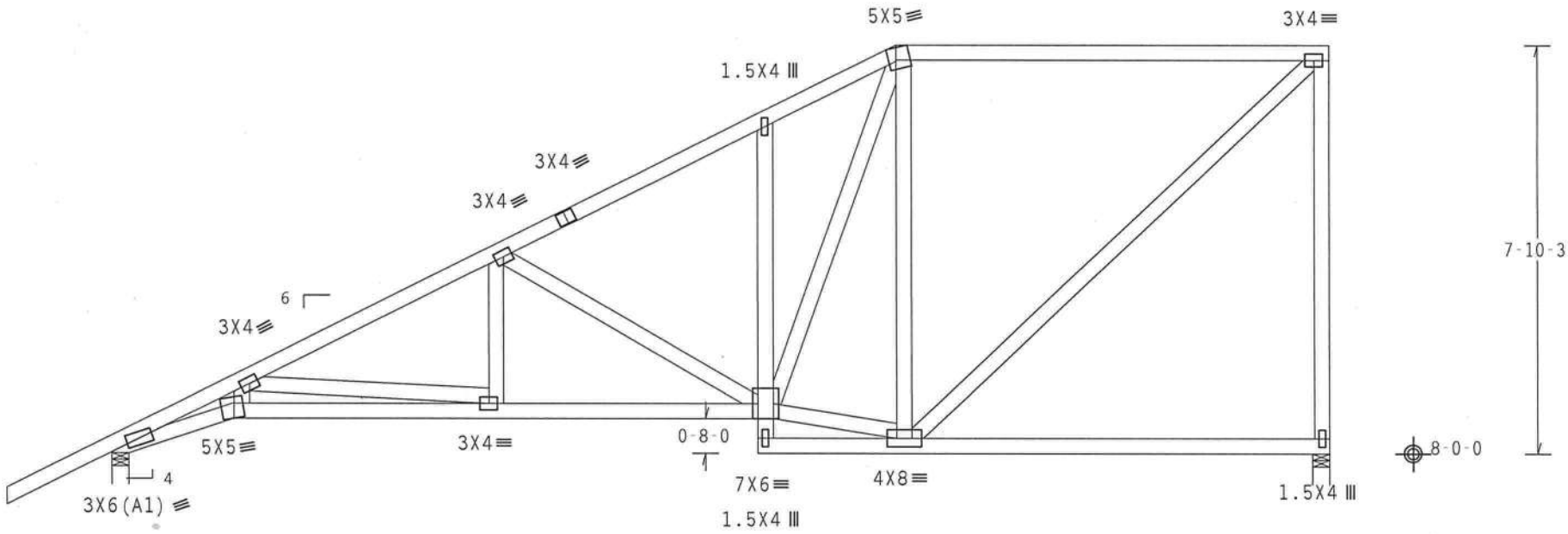
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

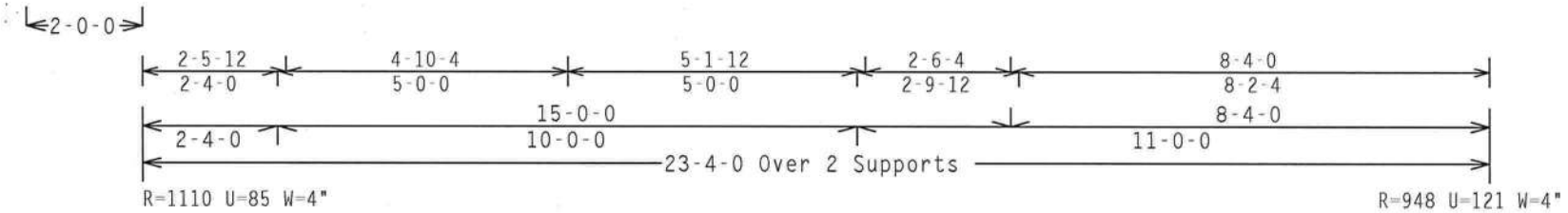
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

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




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58196 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287025 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45528 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H7C)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

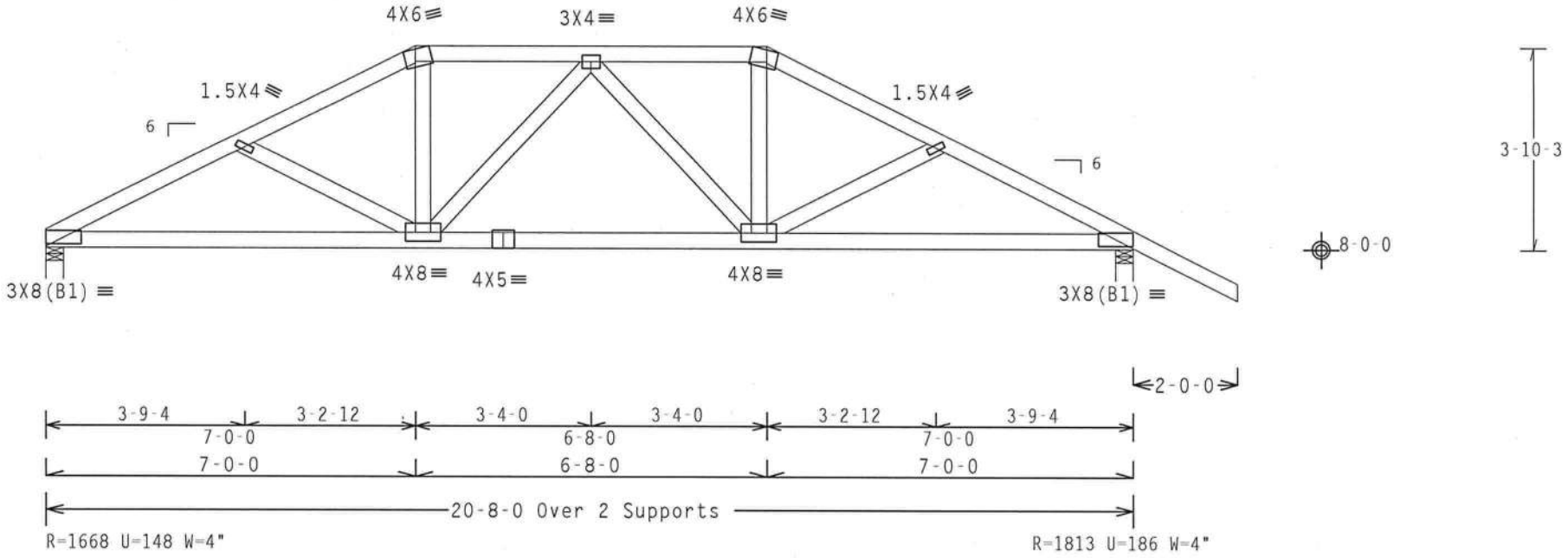
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

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




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.00.0 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58197 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287026 |
| BC LL | 0.0 PSF | | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45421 |
| DUR.FAC. | 1.25 | | |
| SPACING | SEE ABOVE | | JREF- 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - C)

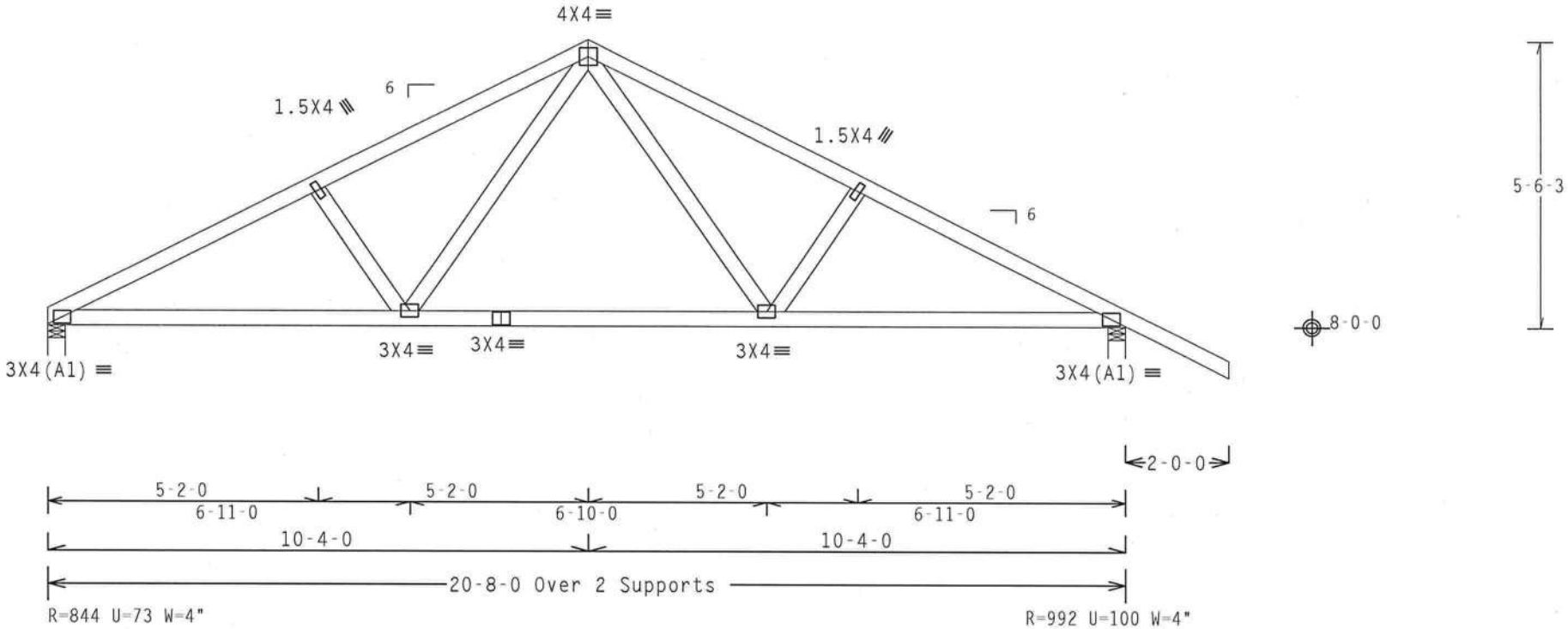
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58198 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287010 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- 45407 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H9C)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

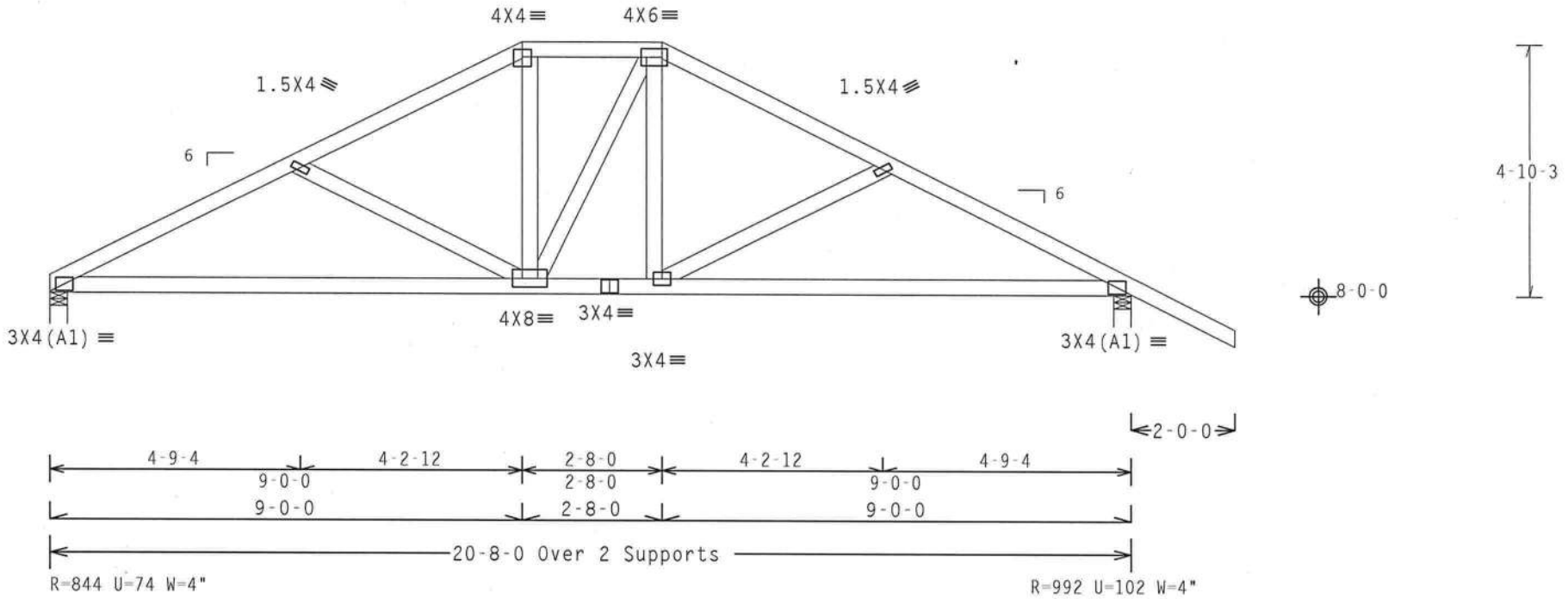
Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
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Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
OCT 13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58199 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287011 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- 45412 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H7D)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

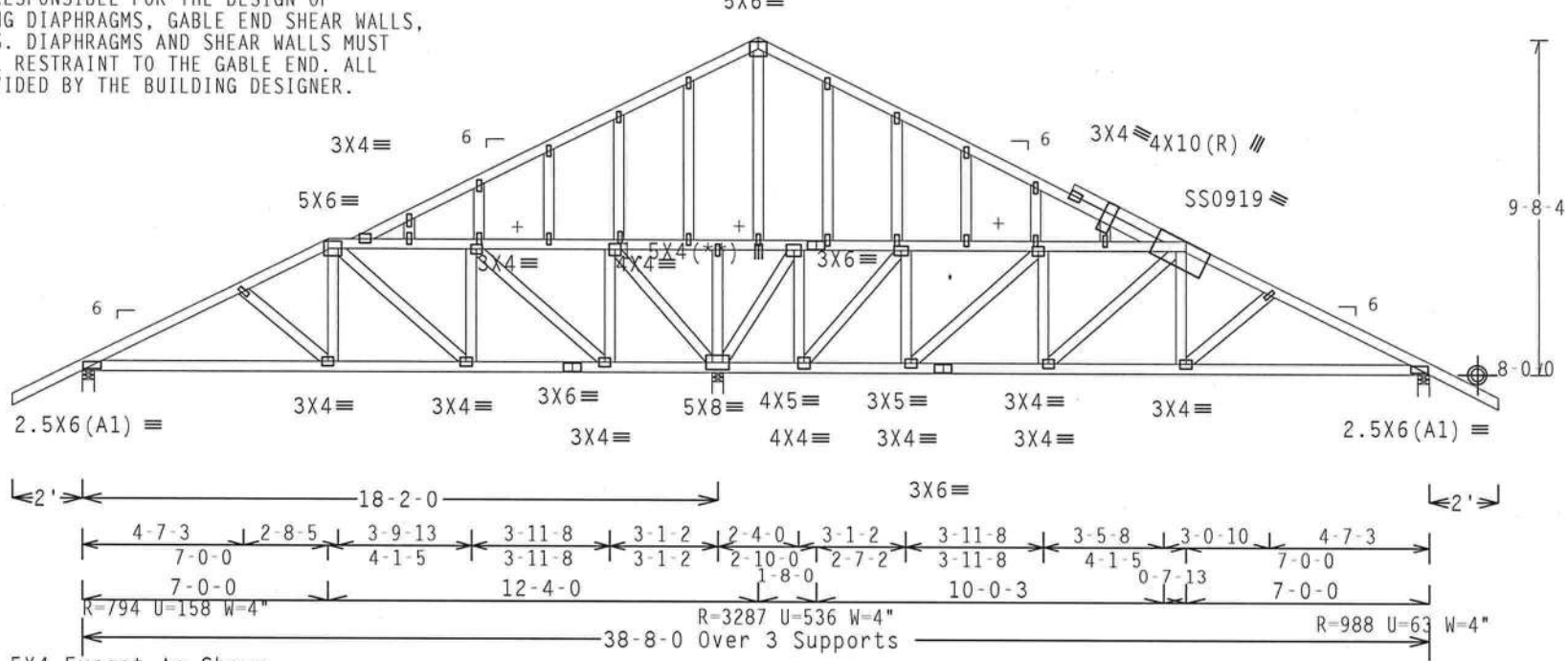
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF, FLOOR AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. DIAPHRAGMS AND SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at -2.00 to 62 PLF at 19.33
TC - From 62 PLF at 19.33 to 62 PLF at 40.67
BC - From 4 PLF at -2.00 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 38.67
BC - From 4 PLF at 38.67 to 4 PLF at 40.67
PLT- 174 LB Conc. Load at (7.06,11.81), (9.06,12.51), (11.06,13.51) (13.06,14.51), (15.06,15.51)
PLT- 183 LB Conc. Load at (17.06,16.51)
PLB- -56 LB Conc. Load at (7.06,8.04)
PLB- -30 LB Conc. Load at (9.06,8.04), (11.06,8.04), (13.06,8.04) (15.06,8.04)
PLB- -47 LB Conc. Load at (17.06,8.04)

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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

+ MEMBER TO BE LATERALLY BRACED FOR OUT OF PLANE WIND LOADS TO TRUSS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.




Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 18 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.36.00 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58200 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287027 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45559 |
| DUR.FAC. | 1.25 | | |
| SPACING | SEE ABOVE | JREF- | 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - D)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

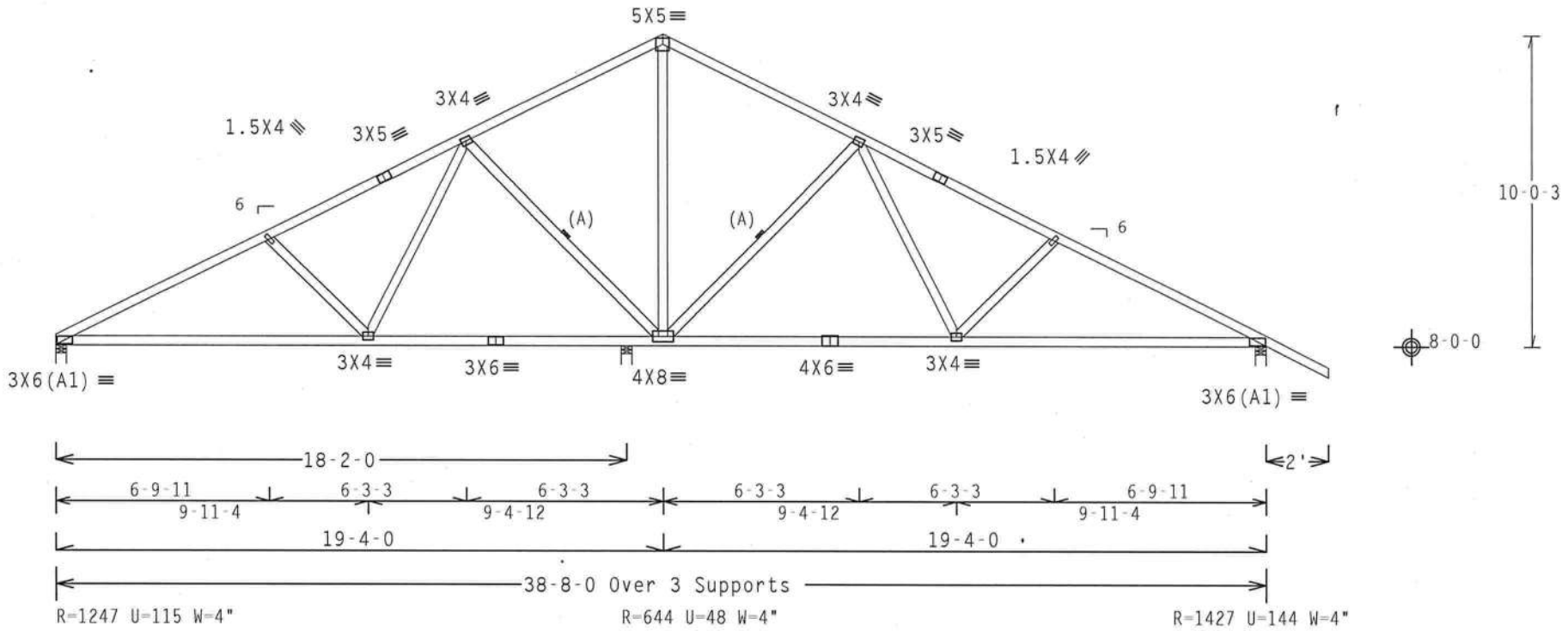
Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:4 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58201 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287028 |
| BC LL | 0.0 PSF | | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45427 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - D-1)

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B1 2x6 SP #1 Dense:
Webs 2x4 SP #3

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.00 to 62 PLF at 19.33
TC - From 62 PLF at 19.33 to 62 PLF at 40.67
BC - From 20 PLF at 0.00 to 20 PLF at 38.67
BC - From 4 PLF at 38.67 to 4 PLF at 40.67
BC - 959 LB Conc. Load at 1.73, 3.73, 5.73, 7.73, 9.73
11.73, 13.60, 15.60, 17.60

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

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

# 2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3"_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 6.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

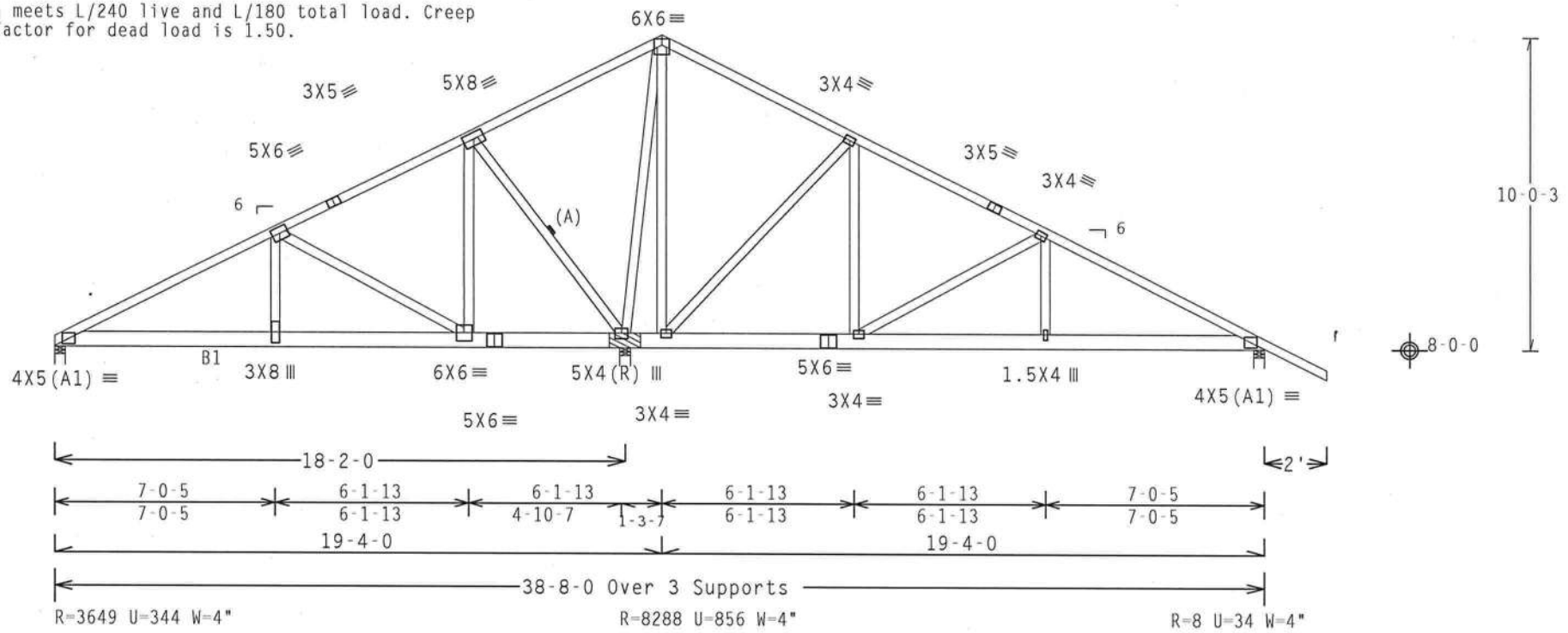
Bearing blocks: Nail type: 10d_Box_or_Gun_(0.128"x3"_min.)_nails

| BRG | X-LOC | #BLOCKS | LENGTH/BLK | #NAILS/BLK | WALL PLATE |
|---|---|---|---|---|---|
| 2 | 18.000' | 1 | 12" | 8 | Rigid Surface |

Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGBLK0207 for additional information.

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.00 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58202 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287029 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 45537 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H7F)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

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

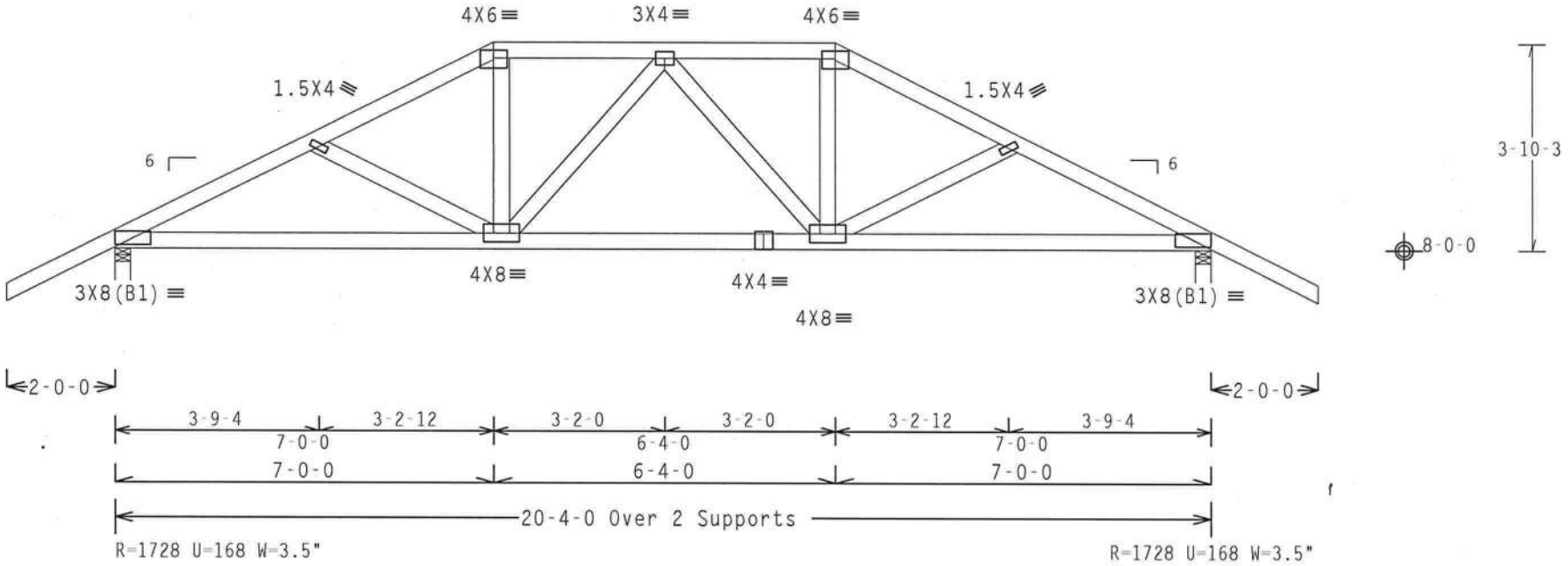
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

Left side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. Right side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
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Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

[illegible] 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58203 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287030 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45486 |
| DUR.FAC. | 1.25 | | |
| SPACING | SEE ABOVE | JREF- | 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - H9F)

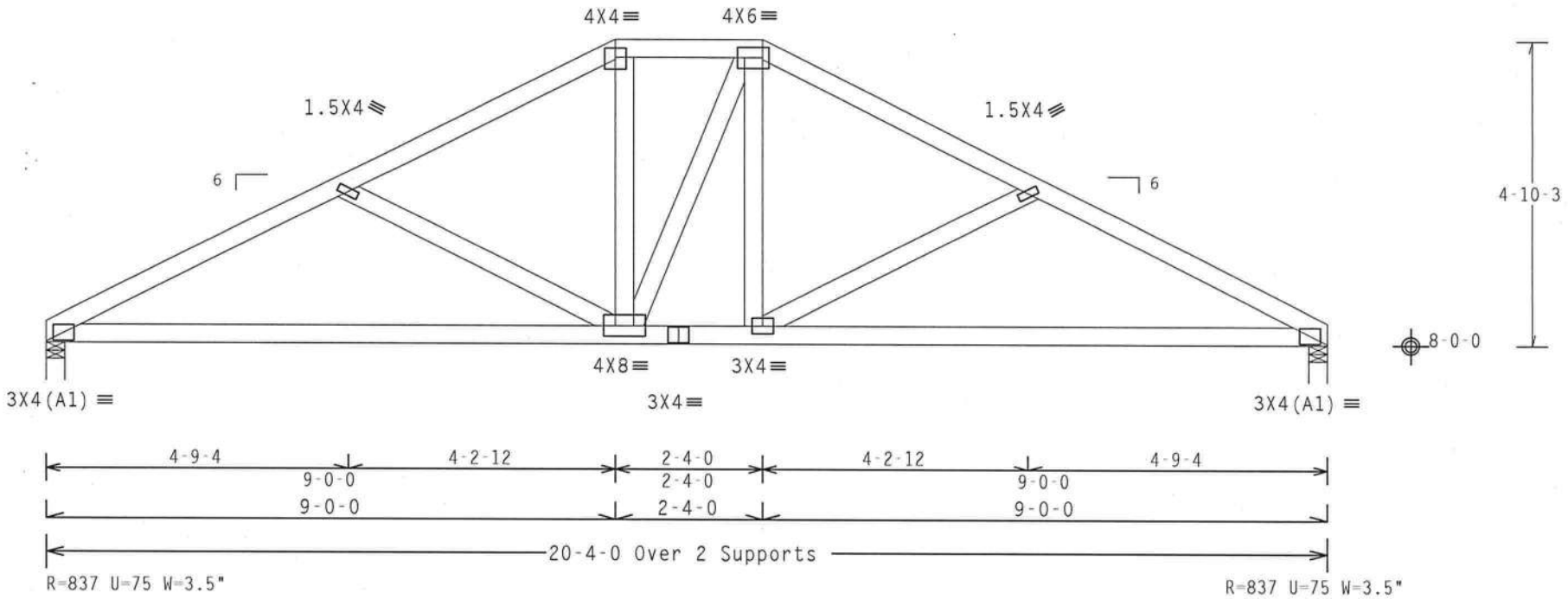
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
C 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58204 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287012 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- | 45491 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TL08228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - CJ1)

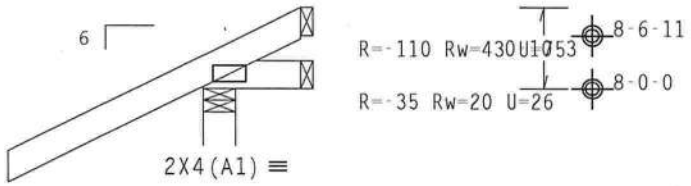
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

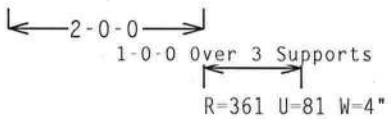
Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:16 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

[illegible] 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58205 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287031 |
| BC LL | 0.0 PSF | | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45334 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - HJ7)

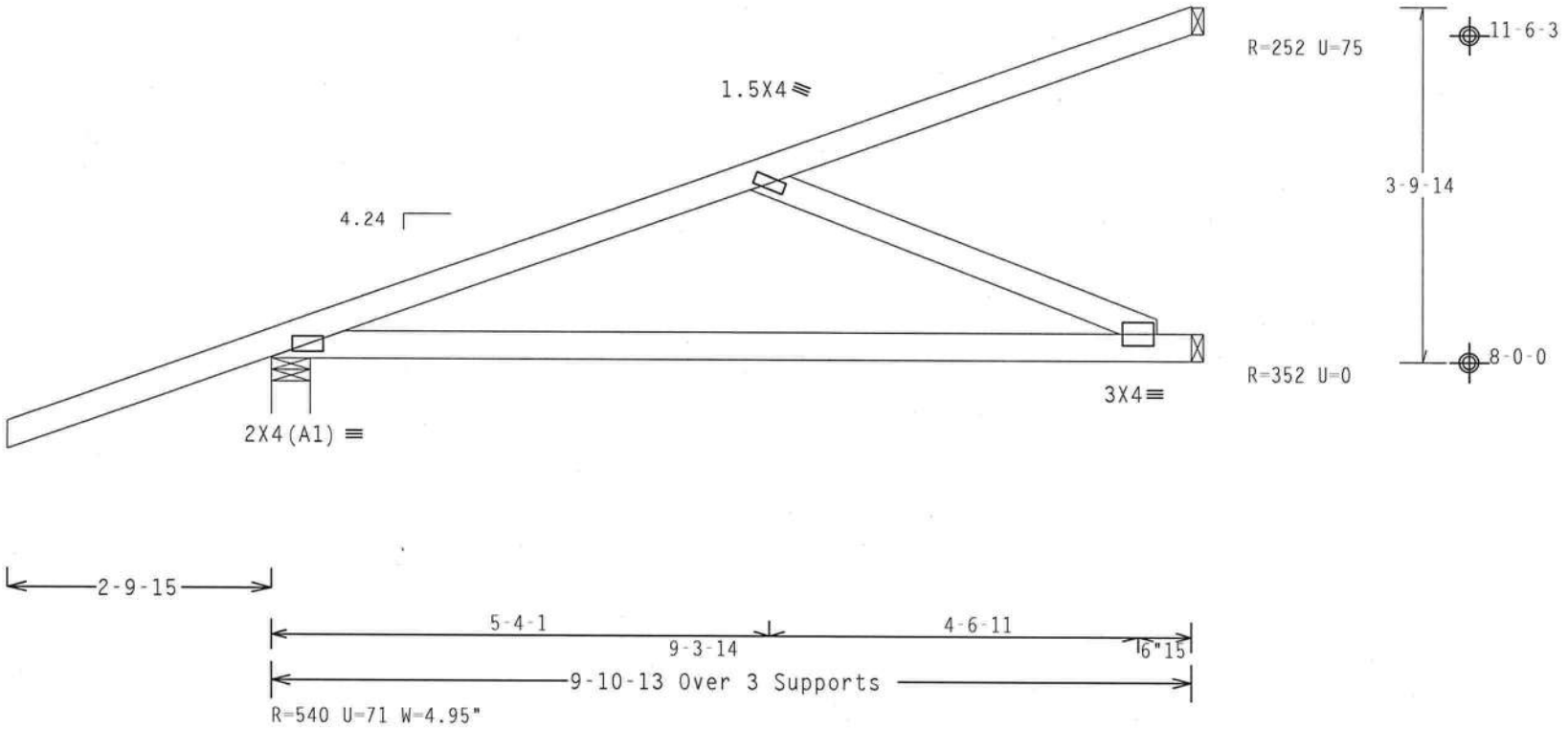
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave QTY:6 FL/-/4/-/-/R/- Scale =.5"/Ft.

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Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58206 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287032 |
| BC LL | 0.0 PSF | | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45376 |
| DUR.FAC. | 1.25 | | |
| SPACING | SEE ABOVE | | JREF- 1TLQ8228Z04 |

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

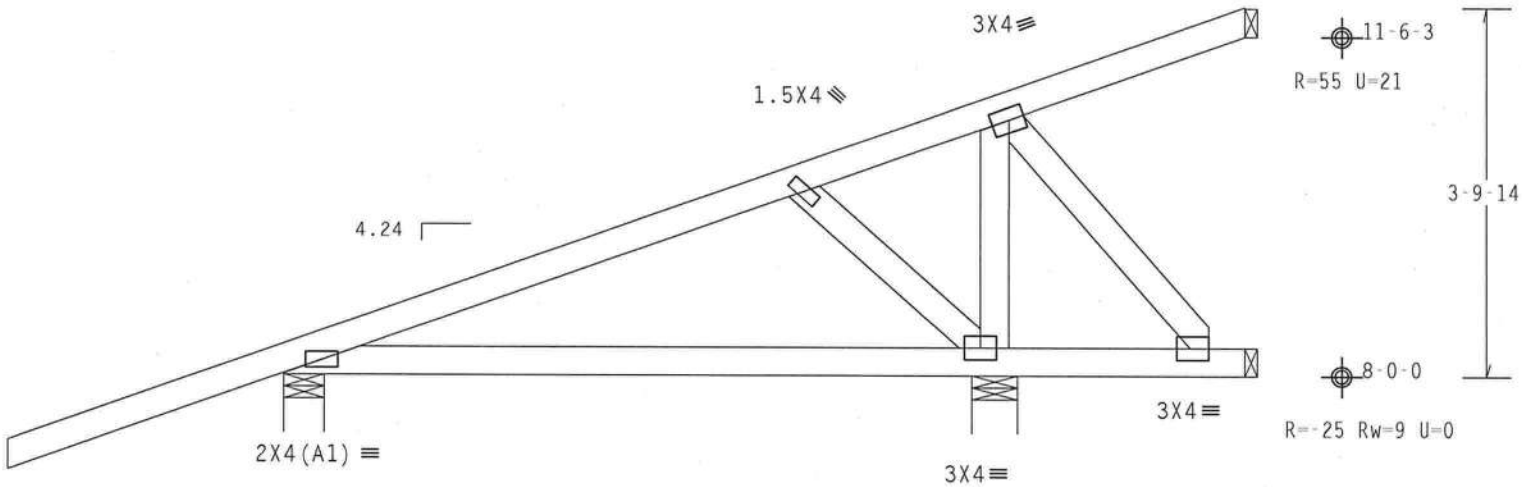
Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TC | - From | 61 PLF | at | -2.83 | to | 61 PLF | at 9.90 |
| BC | - From | 4 PLF | at | -2.83 | to | 4 PLF | at 0.00 |
| BC | - From | 20 PLF | at | 0.00 | to | 20 PLF | at 9.90 |
| TC | - | -220 LB | Conc. Load | at | 1.48 | | |
| TC | - | 98 LB | Conc. Load | at | 4.31 | | |
| TC | - | 241 LB | Conc. Load | at | 7.13 | | |
| BC | - | -70 LB | Conc. Load | at | 1.48 | | |
| BC | - | 29 LB | Conc. Load | at | 4.31 | | |
| BC | - | 96 LB | Conc. Load | at | 7.13 | | |




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58207 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287033 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45400 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - HJ7T)

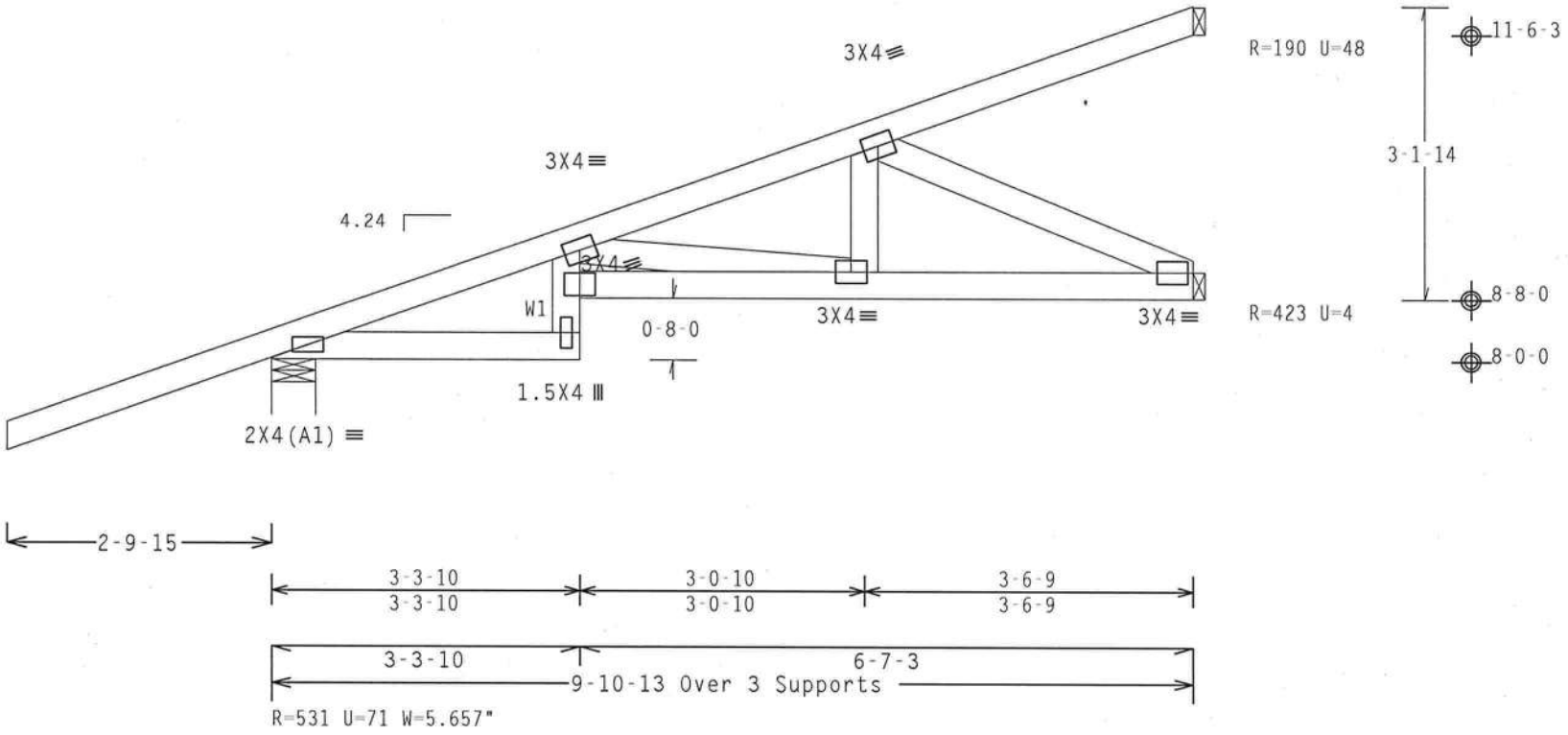
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W1 2x4 SP #2 Dense:

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 13 '08

| | |
|---|---|
| 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 | SEE ABOVE |

| | |
|---|---|
| REF | R8228- 58208 |
| DATE | 10/13/08 |
| DRW | HCUSR8228 08287034 |
| HC-ENG | DF/DF |
| SEQN- | 45386 |
| | |
| JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - CJ3)

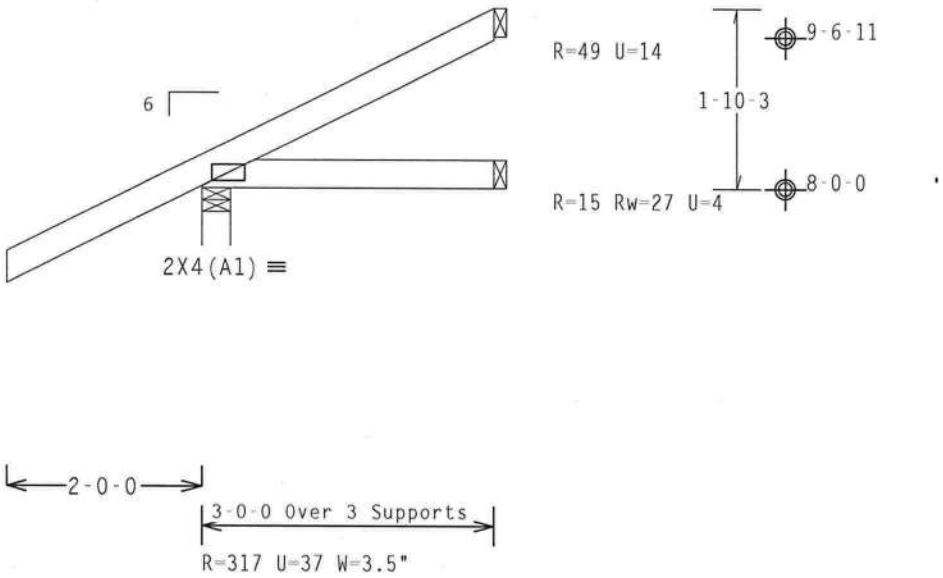
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave

QTY:14 FL/-/4/-/-/R/-

Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58209 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287035 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 45341 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - CJ5)

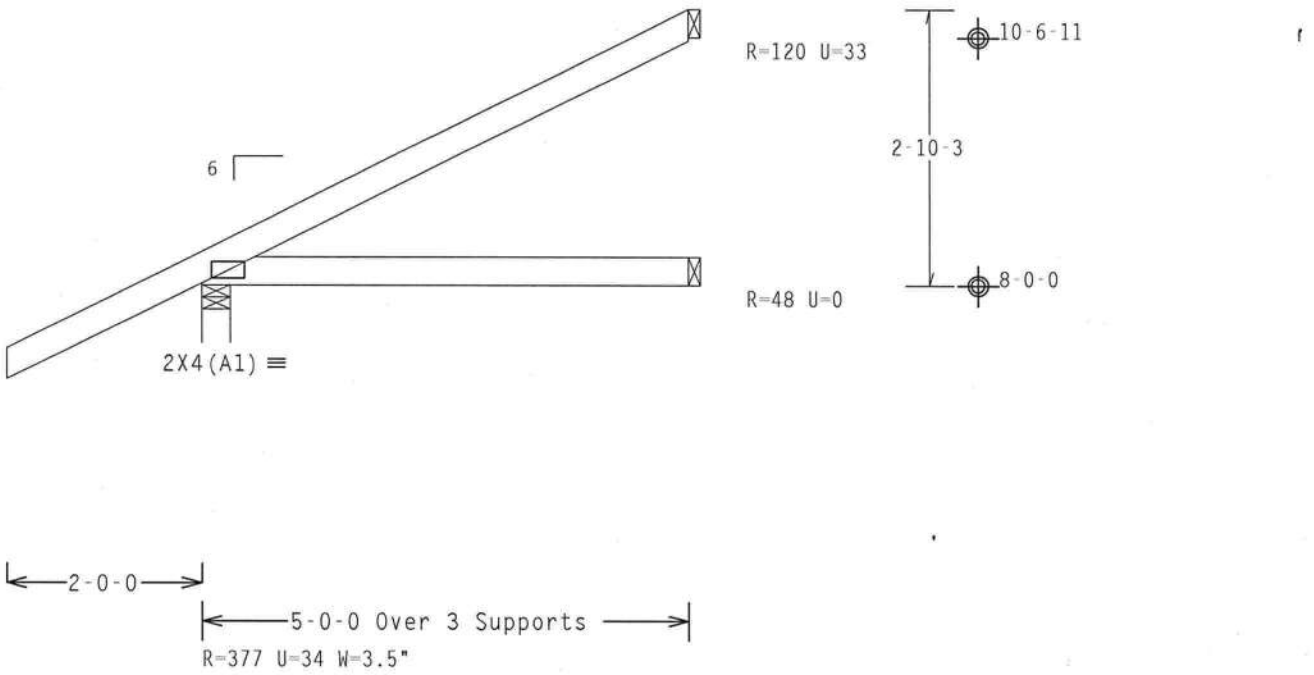
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:13 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58210 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287013 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- | 45345 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TL08228Z04 |

( 8-247--Fill in later WADE WILLIS -- , ** - EJ7 )

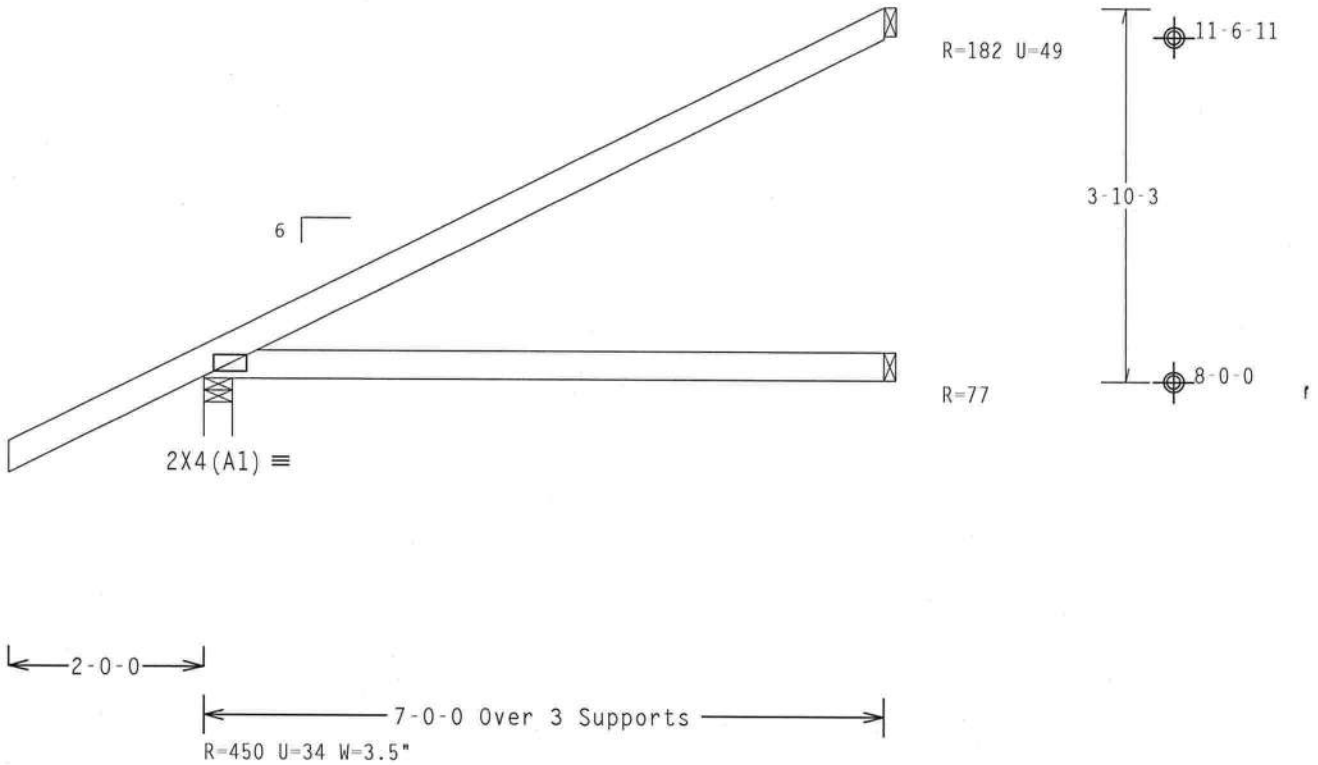
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

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




PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.0424

QTY:25 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58211 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287001 |
| BC LL | 0.0 PSF | HC-ENG | CR/WHK * |
| TOT.LD. | 40.0 PSF | SEQN- | 28483 |
| DUR.FAC. | 1.25 | FROM | AH |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - EJ71)

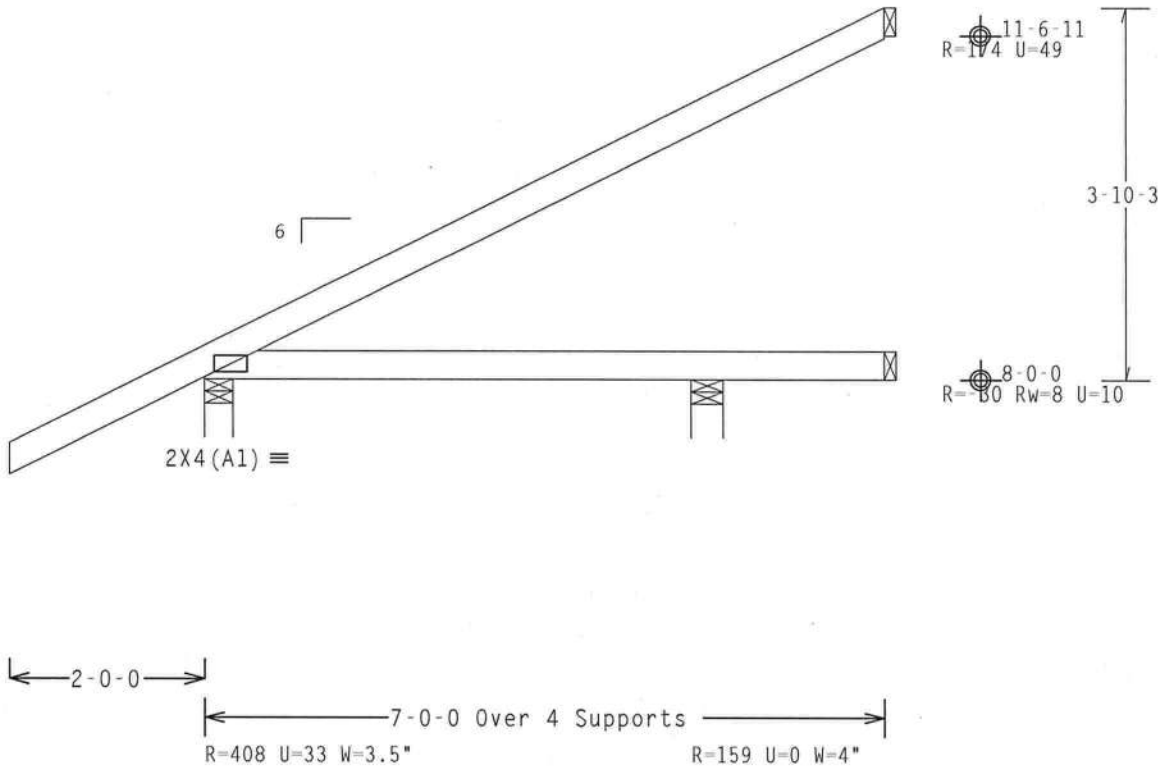
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 S48

PLT TYP. Wave QTY:5 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
OCT 13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58212 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287036 |
| BC LL | 0.0 PSF | | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45357 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | | JREF- 1TLQ8228Z04 |

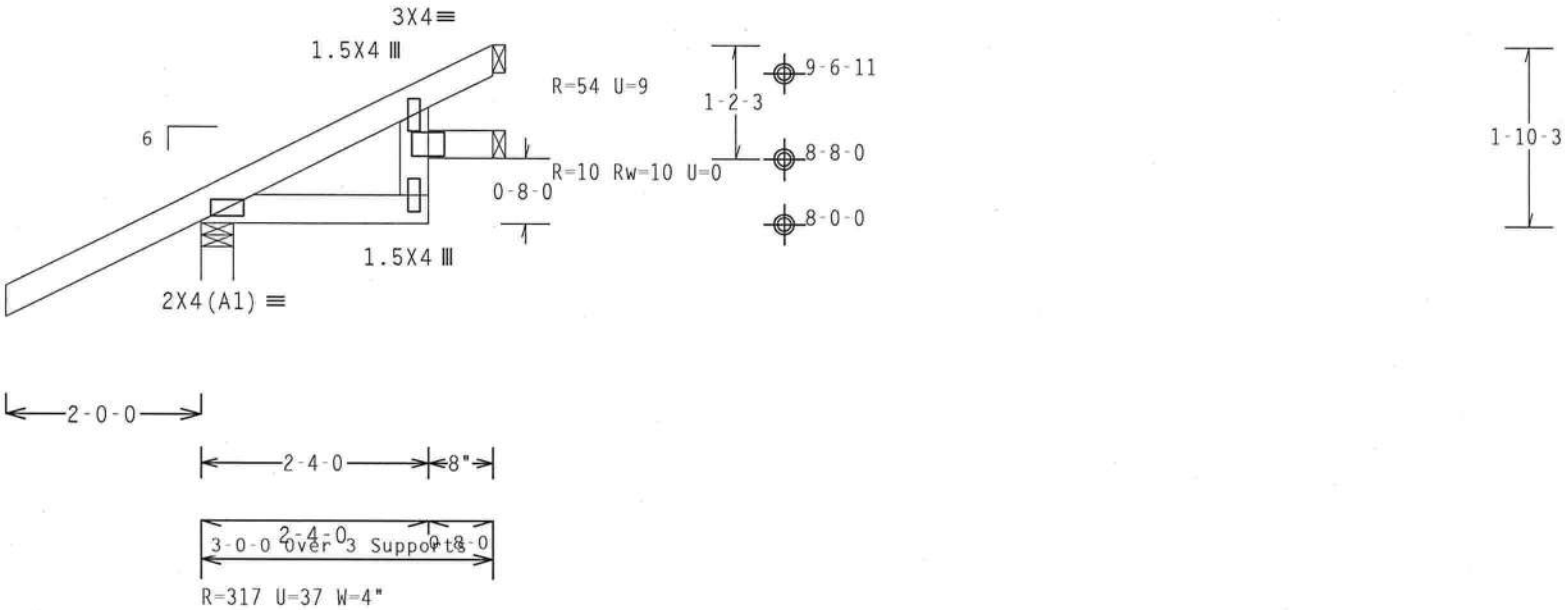
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible] QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
[illegible] 13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58213 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287014 |
| BC LL | 0.0 PSF | HC-ENG DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- 45362 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - CJ5T)

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

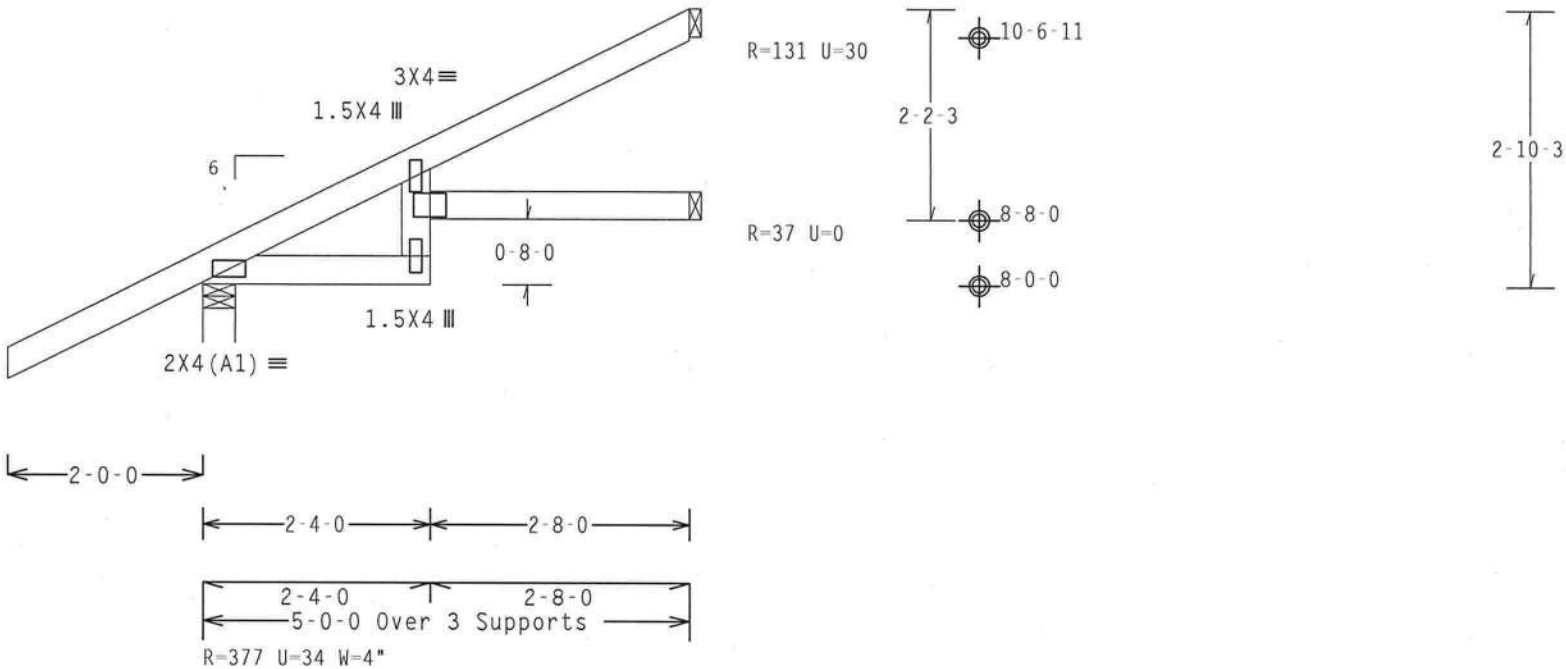
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00 [illegible]

PLT TYP. Wave QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58214 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287015 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF * |
| TOT.LD. | 40.0 PSF | SEQN- | 45366 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

(8-247--Fill in later WADE WILLIS -- , ** - EJ7T])

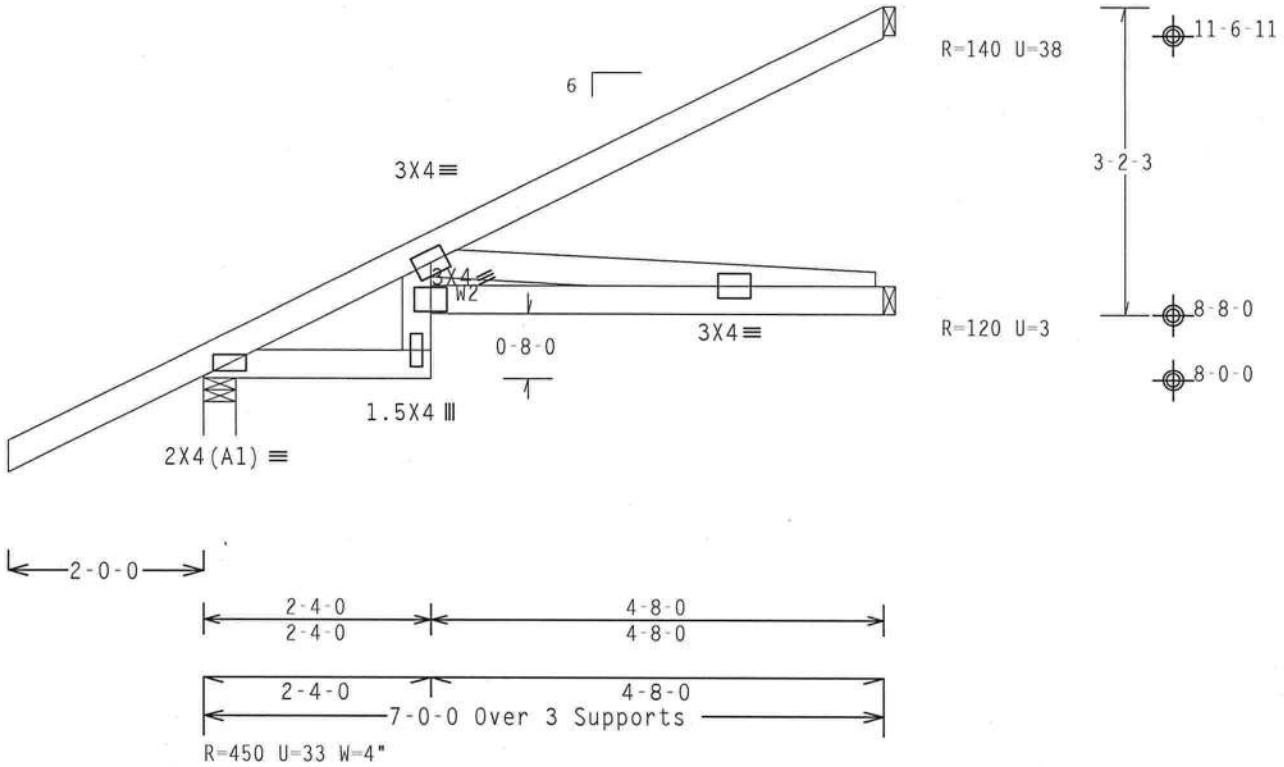
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #2 Dense :W2 2x4 SP #3:

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.00.0 QTY:3 FL/-/4/-/-/R/- Scale =.5"/Ft.

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13 '08

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R8228- 58215 |
| TC DL | 10.0 PSF | DATE | 10/13/08 |
| BC DL | 10.0 PSF | DRW | HCUSR8228 08287016 |
| BC LL | 0.0 PSF | HC-ENG | DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- | 45370 |
| DUR.FAC. | 1.25 | | |
| SPACING | 24.0" | JREF- | 1TLQ8228Z04 |

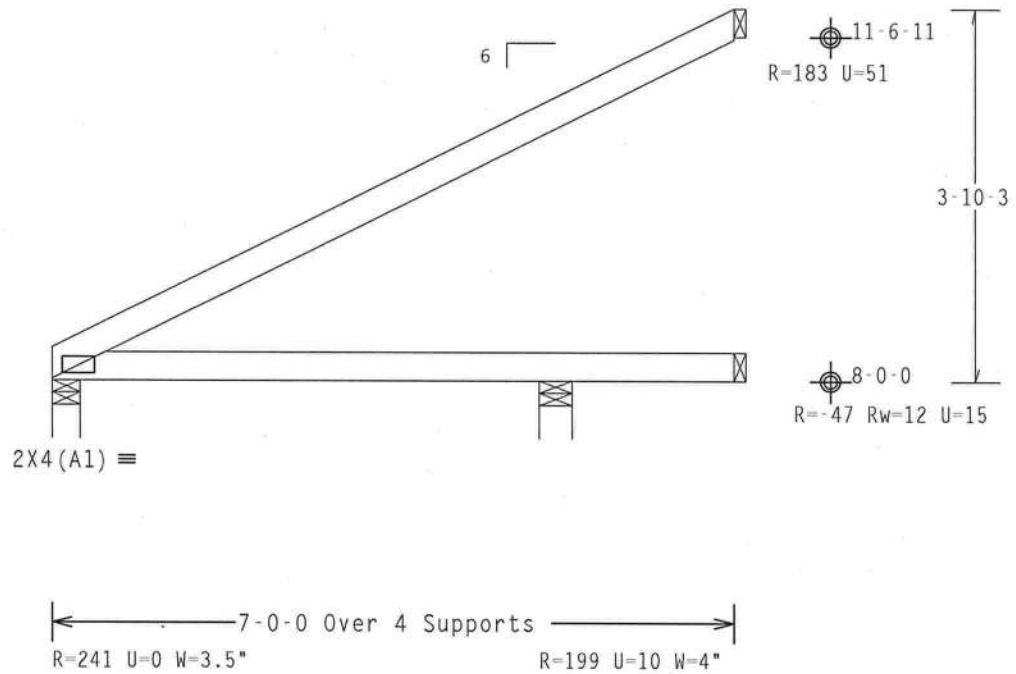
(8-247--Fill in later WADE WILLIS -- , ** - EJ72])

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.00

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

13 '08

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R8228- 58216 |
| TC DL | 10.0 PSF | DATE 10/13/08 |
| BC DL | 10.0 PSF | DRW HCUSR8228 08287037 |
| BC LL | 0.0 PSF | HC-ENG DF/DF |
| TOT.LD. | 40.0 PSF | SEQN- 45394 |
| DUR.FAC. | 1.25 | |
| SPACING | 24.0" | JREF- 1TLQ8228Z04 |

# CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

## NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

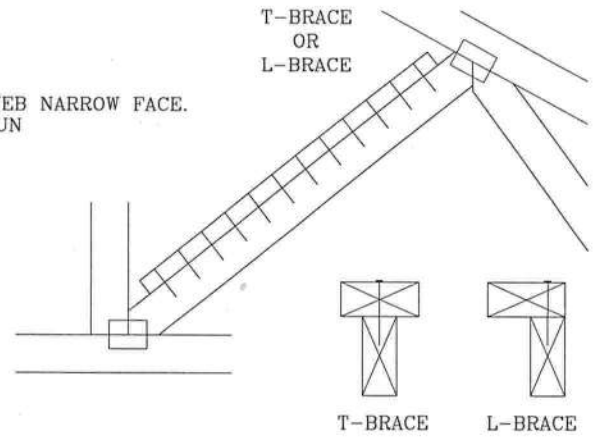
| WEB MEMBER SIZE | SPECIFIED CLB BRACING | ALTERNATIVE BRACING T OR L-BRACE | ALTERNATIVE BRACING SCAB BRACE |
|---|---|---|---|
| 2X3 OR 2X4 | 1 ROW | 2X4 | 1-2X4 |
| 2X3 OR 2X4 | 2 ROWS | 2X6 | 2-2X4 |
| 2X6 | 1 ROW | 2X4 | 1-2X6 |
| 2X6 | 2 ROWS | 2X6 | 2-2X4(*) |
| 2X8 | 1 ROW | 2X6 | 1-2X8 |
| 2X8 | 2 ROWS | 2X6 | 2-2X6(*) |

T-BRACE, L-BRACE AND SCAB BRACE 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.

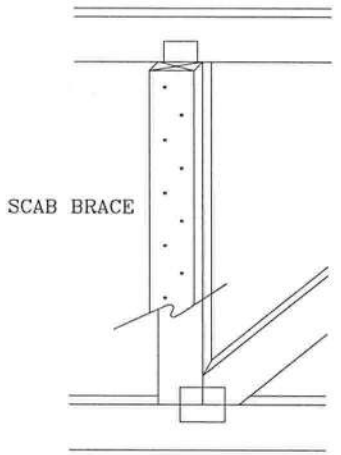
## T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE. ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) NAILS. AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH




## SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB. NO MORE THAN (1) SCAB PER FACE. ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) NAILS. AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH




THIS DRAWING REPLACES DRAWING 579,640

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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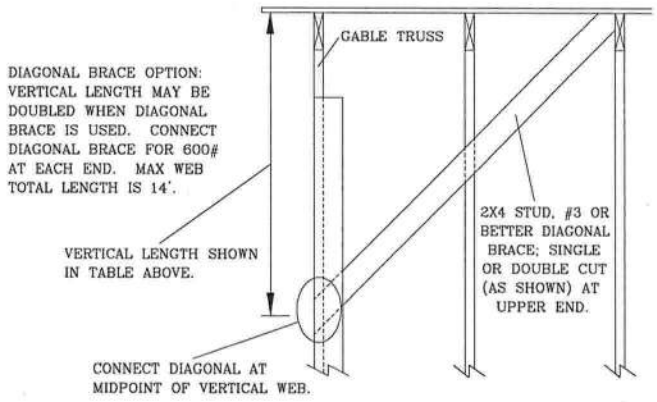
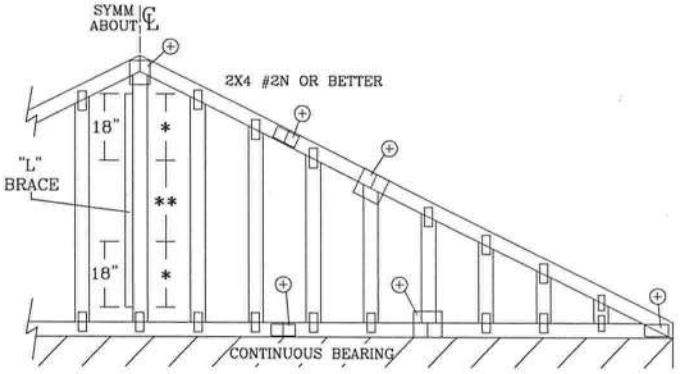
| | | | |
|---|---|---|---|
| TC LL | PSF | REF | CLB SUBST. |
| TC DL | PSF | DATE | 2/23/07 |
| BC DL | PSF | DRWG | BRCLBSUB0207 |
| BC LL | PSF | -ENG | MLH/KAR |
| TOT. LD. | PSF | | |
| DUR. FAC. | | | |
| SPACING | | | |

# ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

| 2X4 GABLE VERTICAL SPACING | SPECIES | BRACE GRADE | NO BRACES | (1) 1X4 "L" BRACE * | | (1) 2X4 "L" BRACE * | | (2) 2X4 "L" BRACE ** | | (1) 2X6 "L" BRACE * | | (2) 2X6 "L" BRACE ** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B | GROUP A | GROUP B |
| 24" O.C. | SPF HF | #1 / #2 | 3' 10" | 6' 8" | 6' 10" | 7' 11" | 8' 1" | 9' 5" | 9' 8" | 12' 5" | 12' 9" | 14' 0" | 14' 0" |
| | | #3 | 3' 9" | 6' 0" | 6' 0" | 7' 11" | 7' 11" | 9' 5" | 9' 5" | 12' 4" | 12' 4" | 14' 0" | 14' 0" |
| | | STUD | 3' 9" | 6' 0" | 6' 0" | 7' 11" | 7' 11" | 9' 5" | 9' 5" | 12' 3" | 12' 3" | 14' 0" | 14' 0" |
| | | STANDARD | 3' 9" | 5' 2" | 5' 2" | 6' 9" | 6' 9" | 9' 1" | 9' 1" | 10' 7" | 10' 7" | 14' 0" | 14' 0" |
| | SP DFL | #1 | 4' 3" | 6' 8" | 7' 2" | 7' 11" | 8' 6" | 9' 5" | 10' 2" | 12' 5" | 13' 5" | 14' 0" | 14' 0" |
| | | #2 | 4' 2" | 6' 8" | 7' 2" | 7' 11" | 8' 6" | 9' 5" | 10' 2" | 12' 5" | 13' 5" | 14' 0" | 14' 0" |
| | | #3 | 4' 0" | 6' 2" | 6' 2" | 7' 11" | 8' 1" | 9' 5" | 9' 11" | 12' 5" | 12' 8" | 14' 0" | 14' 0" |
| | | STUD | 4' 0" | 6' 1" | 6' 1" | 7' 11" | 8' 0" | 9' 5" | 9' 11" | 12' 5" | 12' 6" | 14' 0" | 14' 0" |
| | | STANDARD | 3' 10" | 5' 3" | 5' 3" | 6' 11" | 6' 11" | 9' 4" | 9' 4" | 10' 10" | 10' 10" | 14' 0" | 14' 0" |
| 16" O.C. | SPF HF | #1 / #2 | 4' 5" | 7' 8" | 7' 10" | 9' 1" | 9' 4" | 10' 10" | 11' 1" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | #3 | 4' 4" | 7' 4" | 7' 4" | 9' 1" | 9' 1" | 10' 10" | 10' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | STUD | 4' 4" | 7' 4" | 7' 4" | 9' 1" | 9' 1" | 10' 10" | 10' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | STANDARD | 4' 4" | 6' 4" | 6' 4" | 8' 4" | 8' 4" | 10' 10" | 10' 10" | 12' 11" | 12' 11" | 14' 0" | 14' 0" |
| | SP DFL | #1 | 4' 10" | 7' 8" | 8' 3" | 9' 1" | 9' 9" | 10' 10" | 11' 8" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | #2 | 4' 9" | 7' 8" | 8' 3" | 9' 1" | 9' 9" | 10' 10" | 11' 8" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | #3 | 4' 6" | 7' 7" | 7' 7" | 9' 1" | 9' 6" | 10' 10" | 11' 4" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | STUD | 4' 6" | 7' 6" | 7' 6" | 9' 1" | 9' 6" | 10' 10" | 11' 4" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | STANDARD | 4' 5" | 6' 5" | 6' 5" | 8' 6" | 8' 6" | 10' 10" | 11' 1" | 13' 3" | 13' 3" | 14' 0" | 14' 0" |
| 12" O.C. | SPF HF | #1 / #2 | 4' 11" | 8' 5" | 8' 8" | 10' 0" | 10' 3" | 11' 11" | 12' 3" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | #3 | 4' 9" | 8' 5" | 8' 5" | 10' 0" | 10' 0" | 11' 11" | 11' 11" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | STUD | 4' 9" | 8' 5" | 8' 5" | 10' 0" | 10' 0" | 11' 11" | 11' 11" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | STANDARD | 4' 9" | 7' 3" | 7' 3" | 9' 7" | 9' 7" | 11' 11" | 11' 11" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | SP DFL | #1 | 5' 4" | 8' 5" | 9' 1" | 10' 0" | 10' 9" | 11' 11" | 12' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | #2 | 5' 3" | 8' 5" | 9' 1" | 10' 0" | 10' 9" | 11' 11" | 12' 10" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | #3 | 5' 0" | 8' 5" | 8' 5" | 10' 0" | 10' 6" | 11' 11" | 12' 6" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | STUD | 5' 0" | 8' 5" | 8' 7" | 10' 0" | 10' 6" | 11' 11" | 12' 6" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |
| | | STANDARD | 4' 11" | 7' 5" | 7' 5" | 9' 10" | 9' 10" | 11' 11" | 12' 3" | 14' 0" | 14' 0" | 14' 0" | 14' 0" |




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 | #3 |
| STUD | STUD |
| STANDARD | STANDARD |

GROUP B:

| HEM-FIR |
|---|
| #1 & BTR |
| #1 |

| SOUTHERN PINE | DOUGLAS FIR-LARCH |
|---|---|
| #1 | #1 |
| #2 | #2 |

## GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 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 EACH "L" BRACE WITH 10d 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", BUT LESS THAN 11' 6" | 2X4 |
| GREATER THAN 11' 6" | 2.5X4 |

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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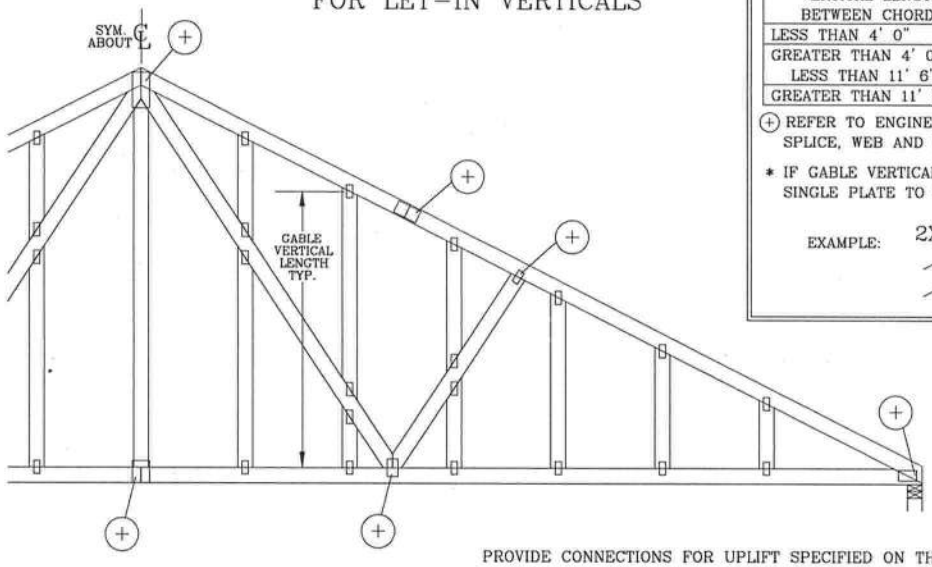
DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Oct 13 '08

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

| | |
|---|---|
| REF | ASCE7-02-GAB11015 |
| DATE | 2/23/07 |
| DRWG | A11015EE0207 |
| -ENG | |

# GABLE DETAIL
## FOR LET-IN VERTICALS

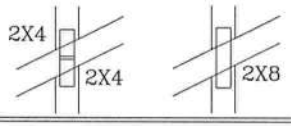


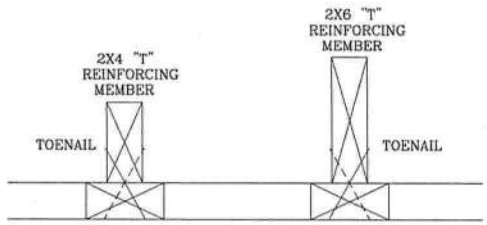

| GABLE VERTICAL PLATE SIZES | | |
|---|---|---|
| VERTICAL LENGTH BETWEEN CHORDS | PLATE SIZE | IF PLATES OVERLAP* |
| LESS THAN 4' 0" | 1X4 OR 2X3 | 2X8 |
| GREATER THAN 4' 0", BUT LESS THAN 11' 6" | 2X4 | 2X8 |
| GREATER THAN 11' 6" | 2.5X4 | 2.5X8 |

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



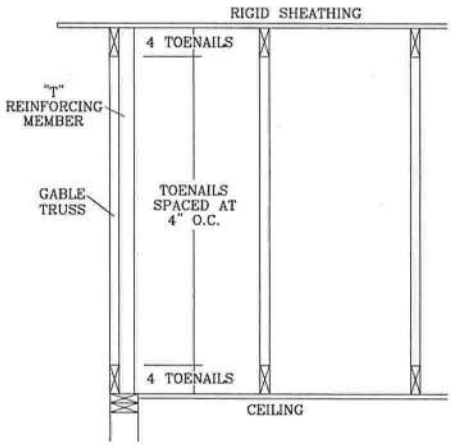

TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

### WEB LENGTH INCREASE W/ "T" BRACE

| WIND SPEED AND MRH | "T" REINF. MBR. SIZE | SBCCI | ASCE |
|---|---|---|---|
| 110 MPH | 2x4 | 10 % | 10 % |
| 15 FT | 2x6 | 40 % | 50 % |
| 110 MPH | 2x4 | 10 % | 10 % |
| 30 FT | 2x6 | 50 % | 50 % |
| 100 MPH | 2x4 | 10 % | 10 % |
| 15 FT | 2x6 | 30 % | 50 % |
| 100 MPH | 2x4 | 10 % | 10 % |
| 30 FT | 2x6 | 40 % | 40 % |
| 90 MPH | 2x4 | 20 % | 10 % |
| 15 FT | 2x6 | 20 % | 40 % |
| 90 MPH | 2x4 | 10 % | 10 % |
| 30 FT | 2x6 | 30 % | 50 % |
| 80 MPH | 2x4 | 10 % | 20 % |
| 15 FT | 2x6 | 10 % | 30 % |
| 80 MPH | 2x4 | 20 % | 10 % |
| 30 FT | 2x6 | 20 % | 40 % |
| 70 MPH | 2x4 | 0 % | 20 % |
| 15 FT | 2x6 | 0 % | 20 % |
| 70 MPH | 2x4 | 10 % | 20 % |
| 30 FT | 2x6 | 10 % | 30 % |

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"




PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5",MIN) TOENAILS IN TOP AND BOTTOM CHORD.
GUN DRIVEN NAILS:
8d COMMON (0.131"X 2.5",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08515EC0207, A13030EC0207, A12030EC0207, A11030EC0207, A10030EC0207, A08530EC0207
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0207, A12015EE0207, A11015EE0207, A10015EE0207, A08515EE0207, A13030EE0207, A12030EE0207, A11030EE0207, A10030EE0207, A08530EE0207
ASCE 7-05 GABLE DETAIL DRAWINGS
A13015E50207, A12015E50207, A11015E50207, A10015E50207, A08515E50207, A13030E50207, A12030E50207, A11030E50207, A10030E50207, A08530E50207

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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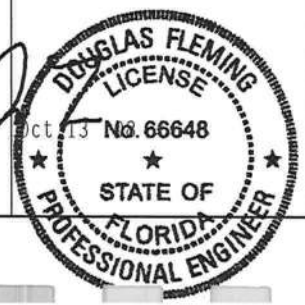



Oct 13

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

| | |
|---|---|
| REF | LET-IN VERT |
| DATE | 2/23/07 |
| DRWG | GBLLETIN0207 |
| -ENG | DLJ/KAR |

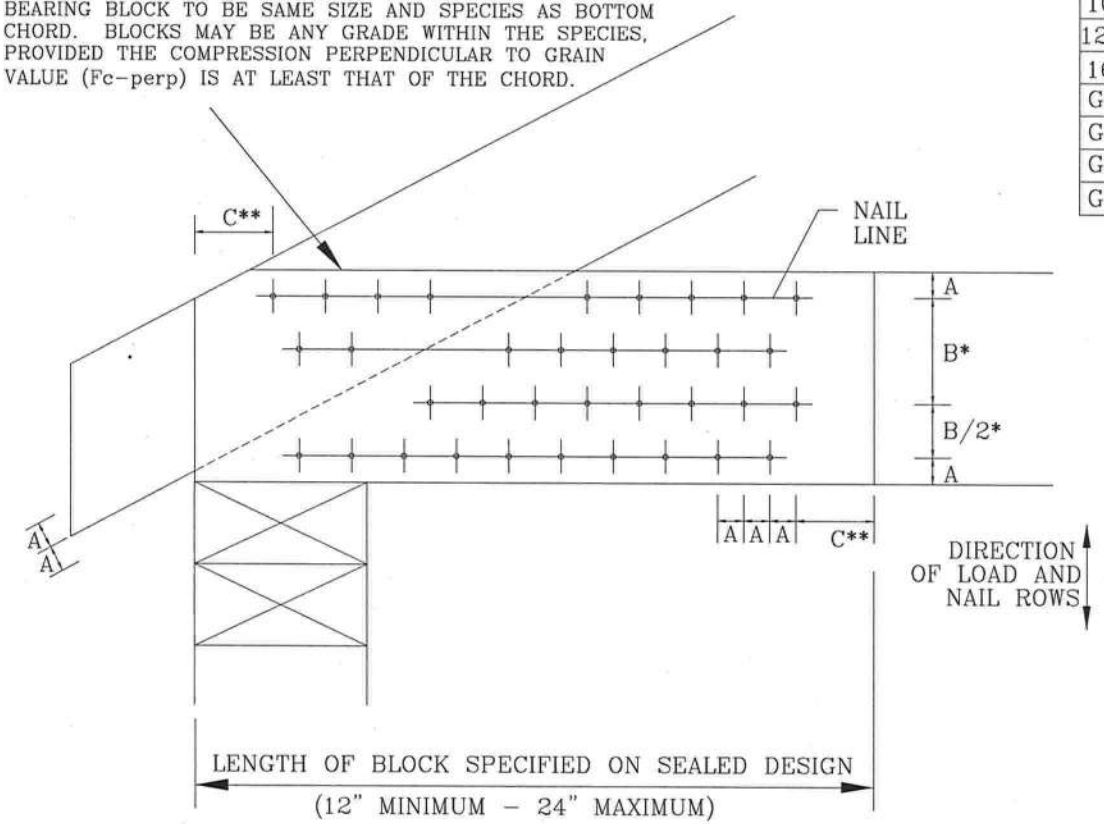
# BEARING BLOCK NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

A – EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
B – SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
C – END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
- * SPACING MAY BE REDUCED BY 50%
- ** SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES, PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE (Fc-perp) IS AT LEAST THAT OF THE CHORD.




## MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

| NAIL TYPE | CHORD SIZE 2X4 | 2X6 | 2X8 | 2X10 | 2X12 |
|---|---|---|---|---|---|
| 8d BOX (0.113"X 2.5",MIN) | 3 | 6 | 9 | 12 | 15 |
| 10d BOX (0.128"X 3.",MIN) | 3 | 5 | 7 | 10 | 12 |
| 12d BOX (0.128"X 3.25",MIN) | 3 | 5 | 7 | 10 | 12 |
| 16d BOX (0.135"X 3.5",MIN) | 3 | 5 | 7 | 10 | 12 |
| 20d BOX (0.148"X 4.",MIN) | 2 | 4 | 5 | 6 | 8 |
| 8d COMMON (0.131"X 2.5",MIN) | 3 | 5 | 7 | 10 | 12 |
| 10d COMMON (0.148"X 3.",MIN) | 2 | 4 | 6 | 8 | 10 |
| 12d COMMON (0.148"X 3.25",MIN) | 2 | 4 | 6 | 8 | 10 |
| 16d COMMON (0.162"X 3.5",MIN) | 2 | 4 | 6 | 8 | 10 |
| GUN (0.120"X 2.5",MIN) | 3 | 6 | 8 | 11 | 14 |
| GUN (0.131"X 2.5",MIN) | 3 | 5 | 7 | 10 | 12 |
| GUN (0.120"X 3.",MIN) | 3 | 6 | 8 | 11 | 14 |
| GUN (0.131"X 3.",MIN) | 3 | 5 | 7 | 10 | 12 |

## MINIMUM NAIL SPACING DISTANCES

| NAIL TYPE | DISTANCES A | B* | C** |
|---|---|---|---|
| 8d BOX (0.113"X 2.5",MIN) | 3/4" | 1 3/8" | 1 3/4" |
| 10d BOX (0.128"X 3.",MIN) | 7/8" | 1 5/8" | 2" |
| 12d BOX (0.128"X 3.25",MIN) | 7/8" | 1 5/8" | 2" |
| 16d BOX (0.135"X 3.5",MIN) | 7/8" | 1 5/8" | 2 1/8" |
| 20d BOX (0.148"X 4.",MIN) | 1" | 1 7/8" | 2 1/4" |
| 8d COMMON (0.131"X 2.5",MIN) | 7/8" | 1 5/8" | 2" |
| 10d COMMON (0.148"X 3.",MIN) | 1" | 1 7/8" | 2 1/4" |
| 12d COMMON (0.148"X 3.25",MIN) | 1" | 1 7/8" | 2 1/4" |
| 16d COMMON (0.162"X 3.5",MIN) | 1' | 2" | 2 1/2" |
| GUN (0.120"X 2.5",MIN) | 3/4" | 1 1/2" | 1 7/8" |
| GUN (0.131"X 2.5",MIN) | 7/8" | 1 5/8" | 2" |
| GUN (0.120"X 3.",MIN) | 3/4" | 1 1/2" | 1 7/8" |
| GUN (0.131"X 3.",MIN) | 7/8" | 1 5/8" | 2" |

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Oct 3 '08

| | |
|---|---|
| REF | BEARING BLOCK |
| DATE | 2/23/07 |
| DRWG | CNBRGBLK0207 |
| -ENG | SJP/KAR |

## Notice of Prevention for Subterranean Termites
**(As required by Florida Building Code (FBC) 104.2.6)**

27483


Live Oak PEST CONTROL, INC. — A locally owned company serving you since 1972

17856 U.S. 129 • McALPIN, FLORIDA 32062
**(386) 362-3887 • 1-800-771-3887** • Fax: (386) 364-3529


27483

DELTA OMEGA PROPERTIES

CROSSWINDS LOT 6 LAKE CITY FL.

Address of Treatment or Lot/Block of Treatment

| | | |
|---|---|---|
| 3-25-10 | 10:00 | AARON J CUMMINGS |
| Date | Time | Applicator |
| PREMISE | IMIDACLOPRID | 48 |
| Product Used | Chemical used *(active ingredient)* | Number of gallons applied |
| .05% | — | 120 |
| Percent Concentration | Area treated *(square feet)* | Linear feet treated |

VERTICAL / FINAL GRADE

Stage of treatment *(Horizontal, Vertical, Adjoining Slab, retreat of disturbed area)*

As per 104.2.6 - If soil chemical barrier method for Subterranean 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 and date this line. 3-25-10 AJC

## Notice of Prevention for Subterranean Termites
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**(386) 362-3887 • 1-800-771-3887** • Fax: (386) 364-3529


DELTA OMEGA PROPERTIES PERMIT #00027483

CROSSWINDS LOT 16 LAKE CITY FL.

Address of Treatment or Lot/Block of Treatment

| | | |
|---|---|---|
| 11-17-08 | 1:00 | AARON J CUMMINGS |
| Date | Time | Applicator |
| PREMISE | IMIDACLOPRID | 155 gal |
| Product Used | Chemical used *(active ingredient)* | Number of gallons applied |
| .10% | 2220 | 221 |
| Percent Concentration | Area treated *(square feet)* | Linear feet treated |

HORIZONTAL / VERTICAL

Stage of treatment *(Horizontal, Vertical, Adjoining Slab, retreat of disturbed area)*

As per 104.2.6 - If soil chemical barrier method for Subterranean termite prevention is used, final exterior treatment shall be completed prior to final building approval.
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27483 27483


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**(386) 362-3887 • 1-800-771-3887** • Fax: (386) 364-3529


#00027483

Address of Treatment or Lot/Block of Treatment

| | | |
|---|---|---|
| 4/9/09 | 5:25pm | Dan B. |
| Date | Time | Applicator |
| Termidor | Fipronil | 31 |
| Product Used | Chemical used *(active ingredient)* | Number of gallons applied |
| .06% | 84 | 58 |
| Percent Concentration | Area treated *(square feet)* | Linear feet treated |

Horizontal - Vertical - Around Existing Trees

Stage of treatment *(Horizontal, Vertical, Adjoining Slab, retreat of disturbed area)*

As per 104.2.6 - If soil chemical barrier method for Subterranean 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 and date this line. _____