DATE 04/24/2006

# Columbia County Building Permit

**This Permit Expires One Year From the Date of Issue**

**PERMIT**
**000024417**

APPLICANT CHARLES PEELER PHONE 752-9576

ADDRESS 2054 SW DAIRY STREET LAKE CITY FL 32024

OWNER CHARLES PEELER PHONE 623-4448

ADDRESS 138 SW GREMLIN WAY LAKE CITY FL 32024

CONTRACTOR CHARLES PEELER PHONE 623-4448

LOCATION OF PROPERTY 247S, TR ON STEVENS RD, TL ON GREMLIN WAY, 3RD LOT ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 68200.00

HEATED FLOOR AREA 1364.00 TOTAL AREA 1781.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 5/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 18

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

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

PARCEL ID 20-4S-16-03079-068 SUBDIVISION SHADY OAKS

LOT 10 BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES ____

000001058 ____ ____ [signature]

Culvert Permit No. | Culvert Waiver | Contractor's License Number | Applicant/Owner/Contractor

WAIVER 06-0016-N BK JH ____

Driveway Connection | Septic Tank Number | LU & Zoning checked by | Approved for Issuance | New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

V#0421

Check # or Cash 1319

## 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 $ 345.00 CERTIFICATION FEE $ 8.90 SURCHARGE FEE $ 8.90

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** 437.80

INSPECTORS OFFICE [signature] 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."**

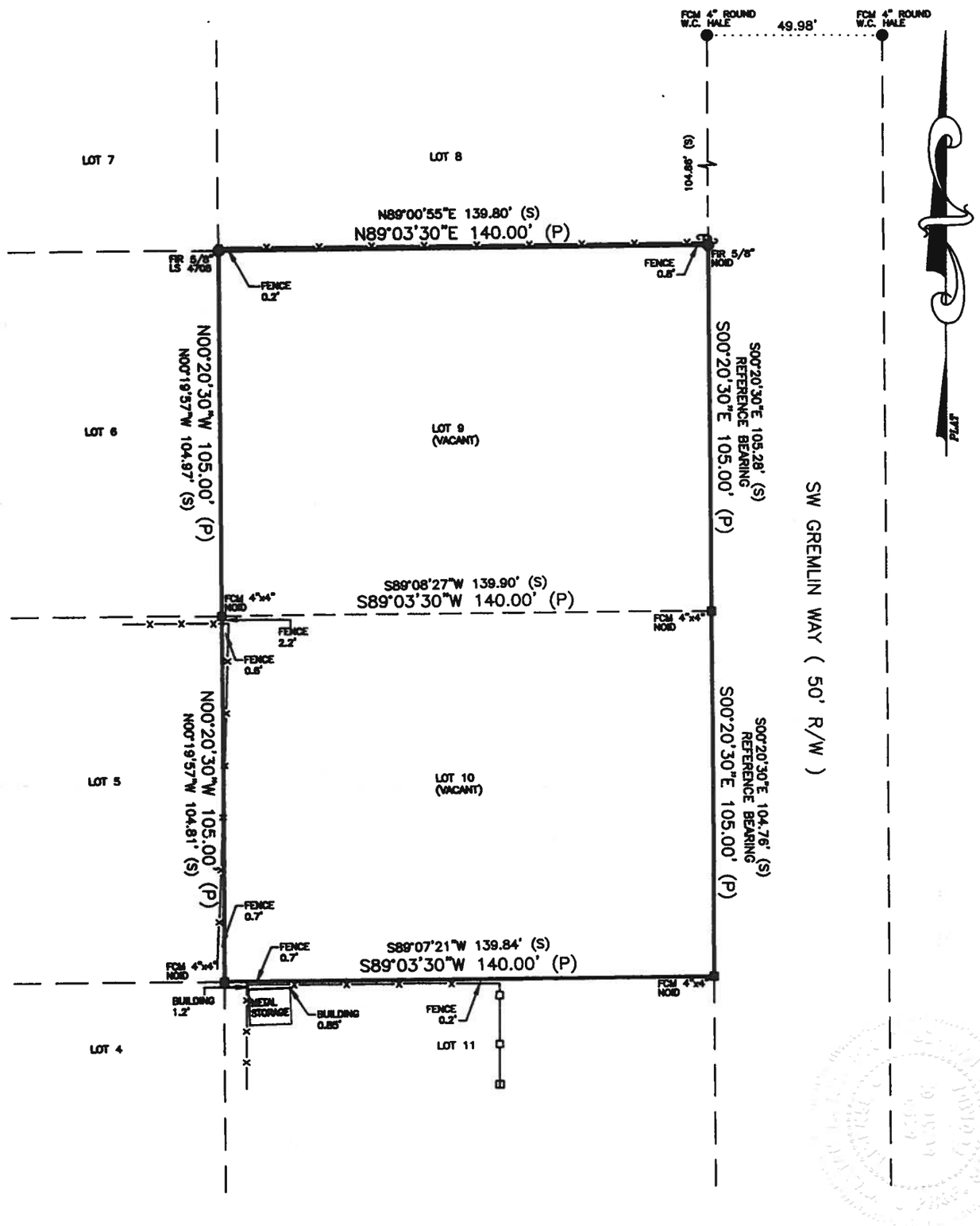
## This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

# MAP OF BOUNDARY SURVEY

SHOWING LOTS 9 & 10, BLOCK 5 OF SHADY OAKS ACRES UNIT 2, ADDITION, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 4, PAGE 34, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.




I HEREBY CERTIFY THIS SURVEY WAS DONE UNDER MY DIRECT SUPERVISION AND IT MEETS THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING PURSUANT TO CHAPTER 61G17-6, FLORIDA ADMINISTRATION CODE, CHAPTER 472, FLORIDA STATUES.

WILLIAM N. KITCHEN PSM 5490

William N. Kitchen 11-22-2005

SURVEYORS NOTES

1. BEARING BASED ON PLAT.
2. THIS SURVEY BASED ON LEGAL DESCRIPTION FURNISHED. THE PUBLIC RECORDS, WERE NOT SEARCHED BY THIS SURVEYOR FOR EASEMENTS, TITLE, COVENANTS, RESTRICTIONS, CLOSURES, TAKINGS OR ORDINANCES, ETC., THERE COULD BE OTHER MATTER OF RECORD THAT EFFECT THIS PARCEL.

**CERTIFIED TO:**
**CHARLES PEELER**

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

| REV: | | |
|---|---|---|
| WILLIAM N. KITCHEN<br>PROFESSIONAL SURVEYOR AND MAPPER<br>152 N MARION AVENUE<br>LAKE CITY, FLORIDA 32055<br>PHONE (386) 755-7786 | DRAWN BY: RI | FIELD BOOK: 05489 |
| | SCALE: 1" = 40' | |
| | SURVEY DATE: NOVEMBER 18, 2005 | |
| | JOB NUMBER | SHEET |
| CLIENT: CHARLES PEELER | 05489 | 1 OF 1 |

LEGEND

(P) = PLAT
(S) = SURVEY MEASUREMENT
NOID = NO SURVEYORS IDENTIFICATION
LS = LAND SURVEYOR
FCM = FOUND CONCRETE MONUMENT
FIR = FOUND IRON ROD
PRM = PERMANENT REFERENCE MONUMENT
R/W = RIGHT OF WAY

□---□ = WOOD FENCE
X --- X = WIRE FENCE
= POWER POLE

For Office Use Only Application # 0601-29 Date Received 1-10-06 By LH Permit # 10581 24417

Application Approved by - Zoning Official BLK Date 24.04.06 Plans Examiner OK JTH Date 1-17-06

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments V09421

(NOC)

Applicants Name Charles Beeler Phone 758-9338 752-9572 623-4448

Address 2054 SW Dairy St. Lake City, Fl. 32024

Owners Name Charles Beeler Phone

911 Address 138 SW Gremlin Way, Lake City, Fl. 32024

Contractors Name Charles Beeler Const. Phone 752-9572

Address 2054 SW Dairy St. Lake City, Fl. 32024 623-4448

Fee Simple Owner Name & Address Charles Beeler, 2054 SW Dairy St. Lake City, Fl.

Bonding Co. Name & Address

Architect/Engineer Name & Address

Mortgage Lenders Name & Address

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

Property ID Number R03079-068 (20-4S-16) Estimated Cost of Construction 100,000

Subdivision Name Shady Oaks Acres Lot 4 Block 5 Unit 2 Phase

Driving Directions Hwy 247 South to Hwy 242 On Right Behind Subs Store

Type of Construction Residential Number of Existing Dwellings on Property 0

Total Acreage 1.33 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 30 ✓ Side 20 VARIANCE Side 20 Rear 75 ✓

Total Building Height 18' Number of Stories 1 Heated Floor Area 1364 Roof Pitch 5:12

Porch 124 GARAGE 293 TOTAL 1781

**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.**

**OWNERS AFFIDAVIT: 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.**

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

Owner Builder or Agent (Including Contractor)

Contractor Signature

Contractors License Number RB0064675

Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY STAMP/SEAL

GALE TEDDER
MY COMMISSION # DD 333586
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

Sworn to (or affirmed) and subscribed before me this 10th day of January 20 06

Personally known ✓ or Produced Identification

Notary Signature

**NOTICE OF COMMENCEMENT FORM**
**COLUMBIA COUNTY, FLORIDA**

***THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.***

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

**Tax Parcel ID Number** 20307P-068 / 20-4S-17 **PERMIT NUMBER** _____

1. **Description of property:** (legal description of the property and street address or 911 address)
Lot 9 Block 5 Unit 2, Shady Oaks Acres S/D
138 SW Cremlin Way
Lake City, Fl. 32024

2. **General description of improvement:** New Home

3. **Owner Name & Address** Charles Peeler, 2054 SW Dairy St. Lake City, Fl. 32024 **Interest in Property** 100%

4. **Name & Address of Fee Simple Owner (if other than owner):** _____

5. **Contractor Name** Charles Peeler Const. **Phone Number** 623-4448
**Address** 2054 SW. Dairy St. Lake City, Fl. 32024

6. **Surety Holders Name** _____ **Phone Number** _____
**Address** _____
**Amount of Bond** _____

7. **Lender Name** Mercantile Bank **Phone Number** 752-5021
**Address** 187 SW Boya DR. Lake City, Fl. 32055

8. **Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:**
**Name** Shirley Watson **Phone Number** 754-4663
**Address** 2218 US. Hwy 90 W Lake City, Fl. 32055

9. **In addition to himself/herself the owner designates** _____ **of** _____ **to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) –**
**(a) 7. Phone Number of the designee** _____

10. **Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified)** _____

**NOTICE AS PER CHAPTER 713, Florida Statutes:**
**The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.**

Charles Peeler
**Signature of Owner**

**Sworn to (or affirmed) and subscribed before** 21st **day of** April, **20** 06

NOTARY PUBLIC GALE TEDDER MY COMMISSION # DD 333586 EXPIRES: June 28, 2009 Bonded Thru Notary Public Underwriters

Gale Tedder
**Signature of Notary**

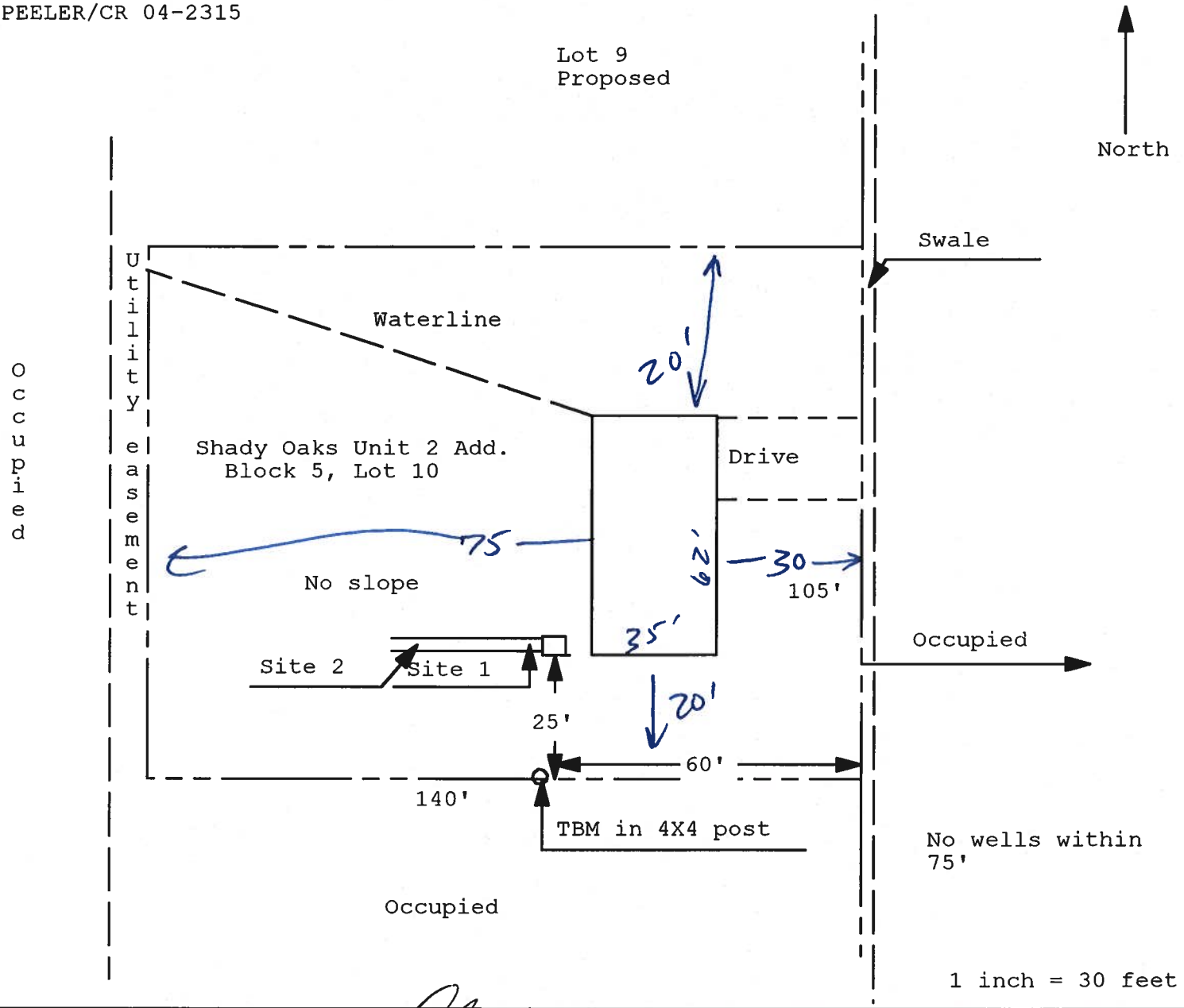
Inst:2006009758 Date:04/21/2006 Time:13:22
DC,P.DeWitt Cason,Columbia County B:1081 P:809

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

***Permit Application Number:*** 06-0016N

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

PEELER/CR 04-2315

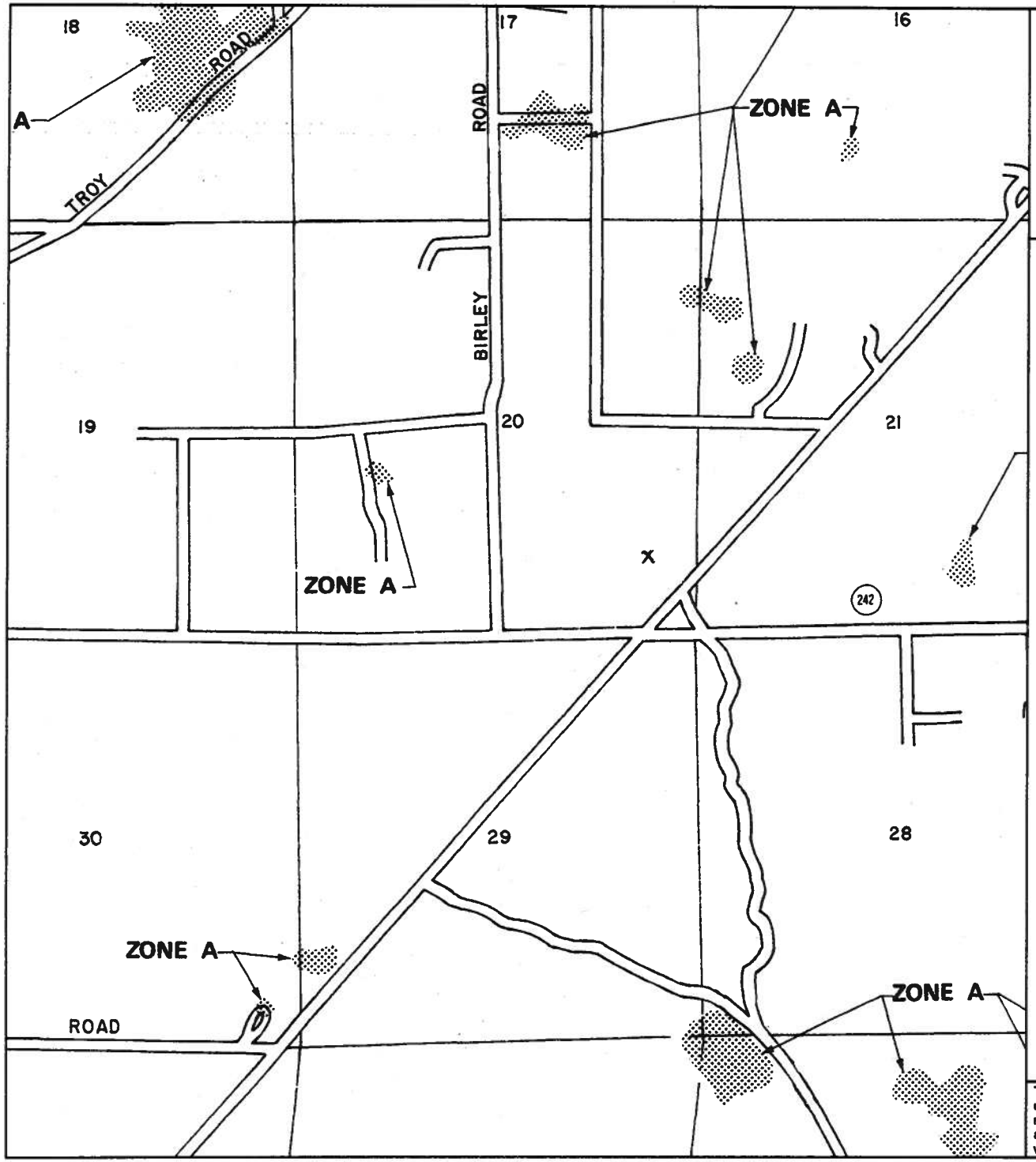



**Site Plan Submitted By** _____ **Date** 9/17/04

**Plan Approved** ✓ **Not Approved** ____ **Date** 9/17/04 1-10-06

**By** _____ Columbia **CPHU**

**Notes:** _____




N

APPROXIMATE SCALE IN FEET

2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

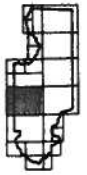
# FIRM

## FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION



COMMUNITY-PANEL NUMBER
120070 0175 B

EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency



Print Date: 1/13/2006 (printed at scale and type A)

Need address

# Columbia County Tax Collector

Site Provided by... govemmax.com T1.11

**Tax Record** 20-45-16 print 12 2 -/ 1 Account Number 1 of 1


**Details**
**Tax Record**
» Print View
Shopping Cart
License Renewal
Property Info ➡

**Searches**
**Account Number**
Owner Name
Mailing Address

**Site Functions**
Welcome
**Tax Search**
Occupational Lic.
Contact Us
Online Help
Home


**DATA VIEW AS OF:** 1/2/2006 8:17:10 AM ET

## Ad Valorem Taxes and Non-Ad Valorem Assessments

The information contained herein does not constitute a title search and should not be relied on as such.

| Account Number | Tax Type | Tax Year |
|---|---|---|
| R03079-068 | Real Estate | 2005 |

**Mailing Address**
PEELER CHARLES
2806 W US 90 SUITE 101
LAKE CITY FL 32055

**Folio**
110919.0000

| Assessed Value | Exempt Amount | Taxable Value |
|---|---|---|
| $4,500.00 | $0.00 | $4,500.00 |

**Exemption Detail**
NO EXEMPTIONS

**Millage Rate**
003 19.06040

**Legal Description**
LOT 9 BLOCK 5 SHADY OAKS ACRES UNIT 2 ADDITION. ORB 965-1621, WD 1016-1535.

### Tax Districts Detail

| Code | Description | Exemption | Amount |
|---|---|---|---|
| C001 | BOARD OF COUNTY COMMISSIONERS | $0.00 | $39.27 |
| S002 | COLUMBIA COUNTY SCHOOL BOARD | $0.00 | $35.80 |
| W SR | SUWANNEE RIVER WATER MGT DIST | $0.00 | $2.21 |
| HLSH | LAKE SHORE HOSPITAL AUTH | $0.00 | $7.88 |
| IIDA | INDUSTRIAL DEVELOPEMENT AUTH | $0.00 | $0.62 |
| FFIR | FIRE ASSESSMENTS | $0.00 | $0.00 |

| | |
|---|---|
| Total Gross | $85.78 |
| Discount | ($1.72) |
| Total | $84.06 |

| If Paid By | Amount Due |
|---|---|
| 01/31/2006 | $84.06 |
| 02/28/2006 | $84.92 |

### Prior Year Taxes Due

NO DELINQUENT TAXES

Click Here To Pay Now

138 SW Gremlin Way

FORM 600A-2004 EnergyGauge® 4.0

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

## Residential Whole Building Performance Method A

| | | | |
|---|---|---|---|
| Project Name: | **511233HitsonShirley** | Builder: | Charles Parker |
| Address: | **Lot: 9, Sub: Shady Oaks S/D, Plat:** | Permitting Office: | Columbia |
| City, State: | **, FL** | Permit Number: | 24417 |
| Owner: | **Spec House** | Jurisdiction Number: | 221000 |
| Climate Zone: | **North** | | |

| | | | |
|---|---|---|---|
| 1. New construction or existing | New | 12. Cooling systems | |
| 2. Single family or multi-family | Single family | a. Central Unit | Cap: 30.0 kBtu/hr |
| 3. Number of units, if multi-family | 1 | | SEER: 11.00 |
| 4. Number of Bedrooms | 3 | b. N/A | |
| 5. Is this a worst case? | Yes | | |
| 6. Conditioned floor area (ft²) | 1364 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) 133.0 ft² | a. Electric Heat Pump | Cap: 30.0 kBtu/hr |
| b. SHGC: | | | HSPF: 7.60 |
| (or Clear or Tint DEFAULT) 7b. | (Clear) 133.0 ft² | b. N/A | |
| 8. Floor types | | | |
| a. Slab-On-Grade Edge Insulation | R=0.0, 172.0(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. Face Brick, Wood, Exterior | R=13.0, 1118.0 ft² | | EF: 0.93 |
| b. Frame, Wood, Adjacent | R=13.0, 156.0 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, 1388.0 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: Garage | Sup. R=6.0, 150.0 ft | MZ-C-Multizone cooling, | |
| b. N/A | | MZ-H-Multizone heating) | |

| | | |
|---|---|---|
| Glass/Floor Area: 0.16 | Total as-built points: 22715<br>Total base points: 22792 | PASS |

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

**PREPARED BY:** _____

**DATE:** 12-8-09

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: 9, Sub: Shady Oaks S/D, Plat: , , FL,** 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 | 1364.0 | 20.04 | 4920.2 | Double, Clear | E | 1.5 | 3.5 | 6.0 | 42.06 | 0.78 | 195.7 | |
| | | | | Double, Clear | E | 1.5 | 5.5 | 45.0 | 42.06 | 0.90 | 1696.4 | |
| | | | | Double, Clear | E | 1.5 | 8.0 | 20.0 | 42.06 | 0.96 | 805.5 | |
| | | | | Double, Clear | E | 1.5 | 3.5 | 9.0 | 42.06 | 0.78 | 293.6 | |
| | | | | Double, Clear | E | 1.5 | 8.0 | 40.0 | 42.06 | 0.96 | 1611.1 | |
| | | | | Double, Clear | W | 6.0 | 5.5 | 15.0 | 38.52 | 0.51 | 293.9 | |
| | | | | Double, Clear | W | 6.0 | 8.0 | 7.0 | 38.52 | 0.60 | 162.5 | |
| | | | | Double, Clear | W | 0.0 | 0.0 | 60.0 | 38.52 | 1.00 | 2311.4 | |
| | | | | Double, Clear | W | 0.0 | 0.0 | 6.0 | 38.52 | 1.00 | 231.1 | |
| | | | | Double, Clear | N | 1.5 | 5.5 | 10.0 | 19.20 | 0.93 | 178.2 | |
| | | | | **As-Built Total:** | | | | **218.0** | | | **7779.5** | |
| **WALL TYPES** | Area X | BSPM = | Points | Type | | | R-Value | Area X | SPM = | | Points | |
| Adjacent | 156.0 | 0.70 | 109.2 | Face Brick, Wood, Exterior | | | 13.0 | 1118.0 | 0.35 | | 391.3 | |
| Exterior | 1118.0 | 1.70 | 1900.6 | Frame, Wood, Adjacent | | | 13.0 | 156.0 | 0.60 | | 93.6 | |
| **Base Total:** | **1274.0** | | **2009.8** | **As-Built Total:** | | | | **1274.0** | | | **484.9** | |
| **DOOR TYPES** | Area X | BSPM = | Points | Type | | | | Area X | SPM = | | Points | |
| Adjacent | 20.0 | 2.40 | 48.0 | Exterior Insulated | | | | 20.0 | 4.10 | | 82.0 | |
| Exterior | 40.0 | 6.10 | 244.0 | Exterior Insulated | | | | 20.0 | 4.10 | | 82.0 | |
| | | | | Adjacent Insulated | | | | 20.0 | 1.60 | | 32.0 | |
| **Base Total:** | **60.0** | | **292.0** | **As-Built Total:** | | | | **60.0** | | | **196.0** | |
| **CEILING TYPES** | Area X | BSPM = | Points | Type | | | R-Value | Area X | SPM X SCM = | | Points | |
| Under Attic | 1364.0 | 1.73 | 2359.7 | Under Attic | | | 30.0 | 1388.0 | 1.73 X 1.00 | | 2401.2 | |
| **Base Total:** | **1364.0** | | **2359.7** | **As-Built Total:** | | | | **1388.0** | | | **2401.2** | |
| **FLOOR TYPES** | Area X | BSPM = | Points | Type | | | R-Value | Area X | SPM = | | Points | |
| Slab | 172.0(p) | -37.0 | -6364.0 | Slab-On-Grade Edge Insulation | | | 0.0 | 172.0(p | -41.20 | | -7086.4 | |
| Raised | 0.0 | 0.00 | 0.0 | | | | | | | | | |
| **Base Total:** | | | **-6364.0** | **As-Built Total:** | | | | **172.0** | | | **-7086.4** | |
| **INFILTRATION** | Area X | BSPM = | Points | | | | | Area X | SPM = | | Points | |
| | 1364.0 | 10.21 | 13926.4 | | | | | 1364.0 | 10.21 | | 13926.4 | |

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 9, Sub: Shady Oaks S/D, Plat: , , FL,** PERMIT #:

| BASE | | | AS-BUILT | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Summer Base Points: 17144.2** | | | **Summer As-Built Points:** | | | | | | **17701.7** |
| 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 30000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) | | | | | | |
| | | | 17702 | 1.00 | (1.09 x 1.147 x 1.00) | 0.310 | 1.000 | 6866.7 | |
| **17144.2** | **0.4266** | **7313.7** | **17701.7** | **1.00** | **1.250** | **0.310** | **1.000** | **6866.7** | |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 9, Sub: Shady Oaks S/D, Plat: , , FL,** PERMIT #:

## BASE

### GLASS TYPES

| .18 X | Conditioned Floor Area | X BWPM | = Points |
|---|---|---|---|
| **.18** | **1364.0** | **12.74** | **3127.9** |

## AS-BUILT

| Type/SC | Overhang Ornt | Len | Hgt | Area X | WPM X | WOF = Points |
|---|---|---|---|---|---|---|
| Double, Clear | E | 1.5 | 3.5 | 6.0 | 18.79 | 1.09 123.3 |
| Double, Clear | E | 1.5 | 5.5 | 45.0 | 18.79 | 1.04 880.6 |
| Double, Clear | E | 1.5 | 8.0 | 20.0 | 18.79 | 1.02 383.3 |
| Double, Clear | E | 1.5 | 3.5 | 9.0 | 18.79 | 1.09 185.0 |
| Double, Clear | E | 1.5 | 8.0 | 40.0 | 18.79 | 1.02 766.6 |
| Double, Clear | W | 6.0 | 5.5 | 15.0 | 20.73 | 1.18 365.9 |
| Double, Clear | W | 6.0 | 8.0 | 7.0 | 20.73 | 1.13 164.6 |
| Double, Clear | W | 0.0 | 0.0 | 60.0 | 20.73 | 1.00 1243.7 |
| Double, Clear | W | 0.0 | 0.0 | 6.0 | 20.73 | 1.00 124.4 |
| Double, Clear | N | 1.5 | 5.5 | 10.0 | 24.58 | 1.00 246.5 |
| **As-Built Total:** | | | | **218.0** | | **4484.0** |

### WALL TYPES

| | Area X | BWPM | = Points |
|---|---|---|---|
| Adjacent | 156.0 | 3.60 | 561.6 |
| Exterior | 1118.0 | 3.70 | 4136.6 |
| **Base Total:** | **1274.0** | | **4698.2** |

| Type | R-Value | Area X | WPM | = Points |
|---|---|---|---|---|
| Face Brick, Wood, Exterior | 13.0 | 1118.0 | 3.17 | 3549.6 |
| Frame, Wood, Adjacent | 13.0 | 156.0 | 3.30 | 514.8 |
| **As-Built Total:** | | **1274.0** | | **4064.4** |

### DOOR TYPES

| | Area X | BWPM | = Points |
|---|---|---|---|
| Adjacent | 20.0 | 11.50 | 230.0 |
| Exterior | 40.0 | 12.30 | 492.0 |
| **Base Total:** | **60.0** | | **722.0** |

| Type | Area X | WPM | = Points |
|---|---|---|---|
| Exterior Insulated | 20.0 | 8.40 | 168.0 |
| Exterior Insulated | 20.0 | 8.40 | 168.0 |
| Adjacent Insulated | 20.0 | 8.00 | 160.0 |
| **As-Built Total:** | **60.0** | | **496.0** |

### CEILING TYPES

| | Area X | BWPM | = Points |
|---|---|---|---|
| Under Attic | 1364.0 | 2.05 | 2796.2 |
| **Base Total:** | **1364.0** | | **2796.2** |

| Type | R-Value | Area X | WPM X WCM = | Points |
|---|---|---|---|---|
| Under Attic | 30.0 | 1388.0 | 2.05 X 1.00 | 2845.4 |
| **As-Built Total:** | | **1388.0** | | **2845.4** |

### FLOOR TYPES

| | Area X | BWPM | = Points |
|---|---|---|---|
| Slab | 172.0(p) | 8.9 | 1530.8 |
| Raised | 0.0 | 0.00 | 0.0 |
| **Base Total:** | | | **1530.8** |

| Type | R-Value | Area X | WPM | = Points |
|---|---|---|---|---|
| Slab-On-Grade Edge Insulation | 0.0 | 172.0(p | 18.80 | 3233.6 |
| **As-Built Total:** | | **172.0** | | **3233.6** |

### INFILTRATION

| | Area X | BWPM | = Points |
|---|---|---|---|
| | 1364.0 | -0.59 | -804.8 |

| | Area X | WPM | = Points |
|---|---|---|---|
| | 1364.0 | -0.59 | -804.8 |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 9, Sub: Shady Oaks S/D, Plat: , , FL,** PERMIT #:

| BASE | | | AS-BUILT | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Winter Base Points:** | | **12070.4** | **Winter As-Built Points:** | | | | | **14318.7** |
| 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 30000 btuh ,EFF(7.6) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 | | | | | |
| | | | 14318.7 | 1.000 | (1.069 x 1.169 x 1.00) | 0.449 | 1.000 | 8028.5 |
| **12070.4** | **0.6274** | **7572.9** | **14318.7** | **1.00** | **1.250** | **0.449** | **1.000** | **8028.5** |

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 9, Sub: Shady Oaks S/D, Plat: , , FL,** 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 | |
| **7314** | **7573** | **7905** | **22792** | | **6867** | **8029** | **7820** | **22715** | |

# PASS

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 9, Sub: Shady Oaks S/D, Plat: , , FL,** 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 circuit 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* = 82.5**

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

Spec House, Lot: 9, Sub: Shady Oaks S/D, Plat: , , FL,

| | | | | | |
|---|---|---|---|---|---|
| 1. | New construction or existing | New | 12. | Cooling systems | |
| 2. | Single family or multi-family | Single family | | a. Central Unit | Cap: 30.0 kBtu/hr |
| 3. | Number of units, if multi-family | 1 | | | SEER: 11.00 |
| 4. | Number of Bedrooms | 3 | | b. N/A | |
| 5. | Is this a worst case? | Yes | | | |
| 6. | Conditioned floor area (ft²) | 1364 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) 133.0 ft² | | a. Electric Heat Pump | Cap: 30.0 kBtu/hr |
| | b. SHGC: | | | | HSPF: 7.60 |
| | (or Clear or Tint DEFAULT) 7b. | (Clear) 133.0 ft² | | b. N/A | |
| 8. | Floor types | | | | |
| | a. Slab-On-Grade Edge Insulation | R=0.0, 172.0(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. Face Brick, Wood, Exterior | R=13.0, 1118.0 ft² | | | EF: 0.93 |
| | b. Frame, Wood, Adjacent | R=13.0, 156.0 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, 1388.0 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: Garage | 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.

# BUILDING INPUT SUMMARY REPORT

## PROJECT

| | | | | | |
|---|---|---|---|---|---|
| **Title:** | 511233HitsonShirley | **Family Type:** | Single | **Address Type:** | Lot Information |
| **Owner:** | Spec House | **New/Existing:** | New | **Lot #:** | 9 |
| **# of Units:** | 1 | **Bedrooms:** | 3 | **Subdivision:** | Shady Oaks S/D |
| **Builder Name:** | (blank) | **Conditioned Area:** | 1364 | **Platbook:** | (blank) |
| **Climate:** | North | **Total Stories:** | 1 | **Street:** | N/A |
| **Permit Office:** | (blank) | **Worst Case:** | Yes | **County:** | Columbia |
| **Jurisdiction #:** | (blank) | **Rotate Angle:** | 0 | **City, St, Zip:** | , FL, |

## FLOORS

| # | Floor Type | R-Val | Area/Perimeter | Units |
|---|---|---|---|---|
| 1 | Slab-On-Grade Edge Insulation | 0.0 | 172.0(p) ft | 1 |

## DOORS

| # | Door Type | Orientation | Area | Units |
|---|---|---|---|---|
| 1 | Insulated | Exterior | 10.0 ft² | 2 |
| 2 | Insulated | Exterior | 20.0 ft² | 1 |
| 3 | Insulated | Adjacent | 20.0 ft² | 1 |

## CEILINGS

| # | Ceiling Type | R-Val | Area | Base Area | Units |
|---|---|---|---|---|---|
| 1 | Under Attic | 30.0 | 1388.0 ft² | 1364.0 ft² | 1 |

**Credit Multipliers:** None

## COOLING

| # | System Type | Efficiency | Capacity |
|---|---|---|---|
| 1 | Central Unit | SEER: 11.00 | 30.0 kBtu/hr |

**Credit Multipliers:** None

## WALLS

| # | Wall Type | Location | R-Val | Area | Units |
|---|---|---|---|---|---|
| 1 | Face Brick - Wood | Exterior | 13.0 | 1118.0 ft² | 1 |
| 2 | Frame - Wood | Adjacent | 13.0 | 156.0 ft² | 1 |

## HEATING

| # | System Type | Efficiency | Capacity |
|---|---|---|---|
| 1 | Electric Heat Pump | COP: 7.60 | 30.0 kBtu/hr |

**Credit Multipliers:** None

## WINDOWS

| # | Panes | Tint | Ornt | Area | OH Length | OH Hght | Units |
|---|---|---|---|---|---|---|---|
| 1 | Double | Clear | N | 6.0 ft² | 1.5 ft | 3.5 ft | 1 |
| 2 | Double | Clear | N | 15.0 ft² | 1.5 ft | 5.5 ft | 3 |
| 3 | Double | Clear | N | 10.0 ft² | 1.5 ft | 8.0 ft | 2 |
| 4 | Double | Clear | N | 9.0 ft² | 1.5 ft | 3.5 ft | 1 |
| 5 | Double | Clear | N | 40.0 ft² | 1.5 ft | 8.0 ft | 1 |
| 6 | Double | Clear | S | 15.0 ft² | 6.0 ft | 5.5 ft | 1 |
| 7 | Double | Clear | S | 7.0 ft² | 6.0 ft | 8.0 ft | 1 |
| 8 | Double | Clear | S | 15.0 ft² | 0.0 ft | 0.0 ft | 4 |
| 9 | Double | Clear | S | 6.0 ft² | 0.0 ft | 0.0 ft | 1 |
| 10 | Double | Clear | W | 10.0 ft² | 1.5 ft | 5.5 ft | 1 |

## DUCTS

| # | Supply Location | Return Location | Air Handler Location | Supply R-Val | Supply Length |
|---|---|---|---|---|---|
| 1 | Uncond. | Uncond. | Garage | 6.0 | 150.0 ft |

**Credit Multipliers:** None

## WATER

| # | System Type | EF | Cap. | Conservation Type | Con. EF |
|---|---|---|---|---|---|
| 1 | Electric Resistance | 0.93 | 40.0 | None | 0.00 |

## REFR.

| # | Use Default? | Annual Operating Cost | Electric Rate |
|---|---|---|---|
| 1 | Yes | N/A | N/A |

**STRUCTURAL TEST REPORT SUMMARY**

**Rendered to:**

**MI HOME PRODUCTS, INC.**

**SERIES/MODEL: 650**
**TYPE: Twin Aluminum Single Hung Window**

| Title of Test | Results |
|---|---|
| Overall Design Pressure | 35.0 psf |
| Operating Force | 18 lb max. |
| Air Infiltration | 0.29 cfm/ft$^2$ |
| Water Resistance | 5.25 psf |
| Structural Test Pressure | 70.5 psf |

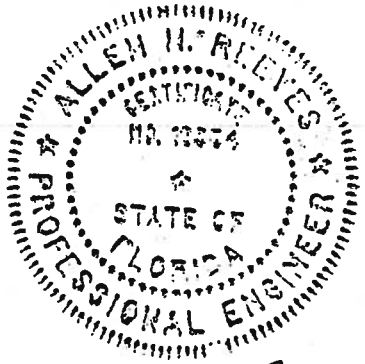
Reference should be made to Report No. 01-36060.02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Scott D. Kramer

Scott D. Kramer, Technician

SDK:nlb/baw




Allen H. Riley
28 MARCH 2002

Architectural Testing

# STRUCTURAL TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-36060.02
Test Date: 11/04/99
Report Date: 03/26/02
Expiration Date: 11/04/03

**Project Summary**: Architectural Testing, Inc. (ATI) was contracted to perform tests on a Series/Model 650, twin aluminum single hung window at MI Home Products' test facility in Elizabethville, Pennsylvania. Test specimen description and results are reported herein.

**Test Specification** The test specimen was evaluated in accordance with the following:

ASTM E 283-91, *Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

ASTM E 330-97, *Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference*

ASTM E 547-96, *Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential*

**Test Specimen Description**:

**Series/Model**: 650

**Type**: Twin Aluminum Single Hung Window

**Overall Size**: 5' 10-1/4" wide by 5' 0" high

**Active Size (2)**: 2' 8-3/4" wide by 2' 6-1/4" high

**Fixed Daylight Opening Size (2)**: 2' 6- 1/4" wide by 2' 3" high

**Screen Size (2)**: 2' 7-3/4" wide by 2' 4-1/4" high

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28 MARCH 2002

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**Test Results**

The results are tabulated as follows:

| Title of Test - Test Method | Results | Allowed |
|---|---|---|
| Air Infiltration per ASTM E 283-91 | | |
| @ 0.56 psf (15 mph) | 0.15 cfm/ft$^2$ | 0.30 cfm/ft$^2$ |
| @ 1.57 psf (25 mph) | 0.29 cfm/ft$^2$ | 0.30 cfm/ft$^2$ |
| Water Resistance per ASTM E 547-96 (with and without screen) | | |
| WTP = 5.25 psf | No leakage | No leakage |
| Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (load held for 33 seconds) | | |
| @ 47.0 psf (exterior) | 0.010" | 0.24" max. |
| @ 47.0 psf (interior) | 0.015" | 0.24" max. |

*Note: No end measurements were taken on the member measured. The measurements stated above include displacement as well as bending. Only permanent sets were recorded, not deflection measurements. This statement applies to all uniform load tests performed.*

| | | |
|---|---|---|
| Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (load held for 10 seconds) | | |
| @ 70.5 psf (exterior) | 0.060" | 0.24" max |
| @ 70.5 psf (interior) | 0.040" | 0.24" max |

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Scott D. Kramer
Technician

SDK:nlb/baw
01-36060.02

Allen N. Reeves, P.E.
Director – Engineering Services

28 MARCH 2002

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**Test Specimen Description**: (Continued)

**Hardware**:

| Description | Quantity | Location |
|---|---|---|
| Plastic tilt latches | 4 | Ends of interior meeting rail |
| Metal pivot bars | 4 | Ends of the bottom rails |
| Metal sweep lock | 2 | Midspan of interior meeting rail |
| Metal keeper | 2 | Midspan of fixed meeting rail |
| Sash stops | 4 | One per jamb |
| Block and tackle balance system | 4 | One per jamb |
| Spring loaded latch pins | 2 | 6" from ends of screen top rail |

**Drainage**:

| Description | Quantity | Location |
|---|---|---|
| Sloped sill | | Sill |
| 1/4" wide by 3/16" high weepslot | 4 | Ends of exterior vertical sill leg |

**Installation**: The test unit was installed into the 2" x 8" nominal Spruce-Pine-Fir #2 wood test buck utilizing the integral nailing fin and 1" roofing nails. Five per top, bottom, and sides of the nail fin were evenly spaced. The nail fin was bedded in a silicone sealant.

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28 MARCH 2002

**Test Specimen Description**: (Continued)

**Finish**: All aluminum was painted white.

**Glazing Details**: Both the active sash and fixed lites utilized 5/8" thick insulating glass fabricated from two sheets of 3/32" thick clear annealed glass and a desiccant filled metal spacer system. The active sash were channel glazed with a flexible wedge gasket. The fixed lites were interior glazed, back bedded with single sided adhesive foam tape and held-in-place with PVC snap-in glazing beads.

**Weatherstripping**:

| Description | Quantity | Location |
|---|---|---|
| 0.270" backed by 0.190" high polypile with center fin | 1 Row | Fixed meeting stile |
| 3/8" high vinyl wrapped foam bulb | 1 Row | Bottom rail |
| 0.187" backed by 0.250" high polypile with center fin | 2 Rows | Stiles |
| 1/4" high polypile dust plug | 2 Rows | Ends of bottom rail, top of each stile |

**Frame Construction**: Frame was constructed of extruded aluminum members and all corners were coped, butted, sealed, and fastened with two screws per corner. The fixed meeting rail was attached to the jambs with a plastic clip and two screws per end.

**Mullion Construction**: The mullion was constructed of an extruded aluminum member. It was fastened to the head and sill with four screws per end. All screw heads were sealed as well as the butt joint at the sill.

**Sash Construction**: The sash were constructed of extruded aluminum members and all corners were coped, butted, and fastened with one screw per corner.

**Screen Construction**: The screen was constructed of rolled aluminum members and the corners were keyed. The screen mesh was held-in-place with a flexible spline.

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28 MARCH 2002

**AAMA/NWWDA 101/I.S.2-97**
**TEST REPORT SUMMARY**

**Rendered to:**

**MI HOME PRODUCTS, INC.**

**SERIES/MODEL: 650 Fin**
**TYPE: Aluminum Single Hung Window**

| Title of Test | Results |
|---|---|
| Rating | H-R40 52 x 72 |
| Overall Design Pressure | +45.0 psf<br>-47.2 psf |
| Operating Force | 11 lb max. |
| Air Infiltration | 0.13 cfm/ft$^2$ |
| Water Resistance | 6.00 psf |
| Structural Test Pressure | +67.5 psf<br>-70.8 psf |
| Deglazing | Passed |
| Forced Entry Resistance | Grade 10 |

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

1 APRIL 2002

REEVES CERTIFICATE NO. 18354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Architectural Testing

# AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

**Project Summary**: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

**Test Specification**: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

**Test Specimen Description**:

**Series/Model**: 650 Fin

**Type**: Aluminum Single Hung Window

**Overall Size**: 4' 4-1/4" wide by 6' 0-3/8" high

**Active Sash Size**: 4' 1-3/4" wide by 3' 0-5/8" high

**Daylight Opening Size**: 3' 11-3/8" wide by 2' 9-1/2" high

**Screen Size**: 4' 0-1/4" wide by 2' 11-1/8" high

**Finish**: All aluminum was white.

**Glazing Details**: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

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1 APRIL 2002

REEVES VINCENT STATE NO. 19354 STATE OF FLORIDA PROFESSIONAL ENGINEER

**Test Specimen Description:** (Continued)

**Weatherstripping:**

| Description | Quantity | Location |
|---|---|---|
| 0.230" high by 0.270" backed polypile with center fin | 1 Row | Fixed meeting rail |
| 0.250" high by 0.187" backed polypile with center fin | 2 Rows | Active sash stiles |
| 1/2" x 1/2" dust plug | 4 Pieces | Active sash, top and bottom of stiles |
| 1/4" foam-filled vinyl bulb seal | 1 Row | Active sash, bottom rail |

**Frame Construction:** The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

**Sash Construction:** The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

**Screen Construction:** The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

**Hardware:**

| Description | Quantity | Location |
|---|---|---|
| Metal cam lock with keeper | | Midspan, active meeting rail with keeper adjacent on fixed meeting rail |
| Plastic tilt latch | 2 | Active sash, meeting rail ends |
| Metal tilt pin | 2 | Active sash, bottom rail ends |
| Balance assembly | 2 | One in each jamb |
| Screen plunger | 2 | 4" from rail ends on top rail |

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1 APRIL 2002

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FLORIDA
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**Test Specimen Description:** (Continued)

**Drainage:** Sloped sill

**Reinforcement:** No reinforcement was utilized.

**Installation:** The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

**Test Results:**

The results are tabulated as follows:

| Paragraph | Title of Test - Test Method | Results | Allowed |
|---|---|---|---|
| 2.2.1.6.1 | Operating Force | 11 lbs | 30 lbs max |
| | Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph) | 0.13 cfm/ft$^2$ | 0.3 cfm/ft$^2$ max |
| | Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf | No leakage | No leakage |
| 2.1.4.1 | Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) | | |
| | @ 25.9 psf (positive) | 0.42"* | 0.26" max. |
| | @ 34.7 psf (negative) | 0.43"* | 0.26" max. |
| 2.1.4.2 | Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) | | |
| | @ 38.9 psf (positive) | 0.02" | 0.18" max. |
| | @ 52.1 psf (negative) | 0.02" | 0.18" max. |

***Note #1:** The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.*

***Exceeds L/175 for deflection, but passes all other test requirements.*

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
CERTIFICATE
NO. 1333[illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

**Test Specimen Description:** (Continued)

| Paragraph | Title of Test - Test Method | Results | Allowed |
|---|---|---|---|
| 2.2.1.6.2 | Deglazing Test (ASTM E 987) | | |
| | In operating direction at 70 lbs | | |
| | Meeting rail | 0.12"/25% | 0.50"/100% |
| | Bottom rail | 0.12"/25% | 0.50"/100% |
| | In remaining direction at 50 lbs | | |
| | Left stile | 0.06"/12% | 0.50"/100% |
| | Right stile | 0.06"/12% | 0.50"/100% |
| | Forced Entry Resistance (ASTM F 588-97) | | |
| | Type: A | | |
| | Grade: 10 | | |
| | Lock Manipulation Test | No entry | No entry |
| | Tests A1 through A5 | No entry | No entry |
| | Test A7 | No entry | No entry |
| | Lock Manipulation Test | No entry | No entry |
| Optional Performance | | | |
| 4.3 | Water Resistance (ASTM E 547-00) | | |
| | (with and without screen) | | |
| | WTP = 6.00 psf | No leakage | No leakage |
| | Uniform Load Deflection (ASTM E 330-97) | | |
| | (Measurements reported were taken on the meeting rail) | | |
| | (Loads were held for 33 seconds) | | |
| | @ 45.0 psf (positive) | 0.47"* | 0.26" max. |
| | @ 47.2 psf (negative) | 0.46"* | 0.26" max. |

**Exceeds L/175 for deflection, but passes all other test requirements.*

| | | |
|---|---|---|
| Uniform Load Structural (ASTM E 330-97) | | |
| (Measurements reported were taken on the meeting rail) | | |
| (Loads were held for 10 seconds) | | |
| @ 67.5 psf (positive) | 0.05" | 0.18" max. |
| @ 70.8 psf (negative) | 0.05" | 0.18" max. |

Allen N. Reeves
1 APRIL 2002

LEII N. REEVES
CERTIFICATE NO. 19554
STATE OF FLORIDA
PROFESSIONAL ENGINEER

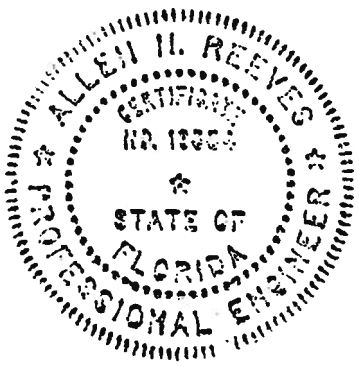
Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

MAH:nlb
01-41134.01

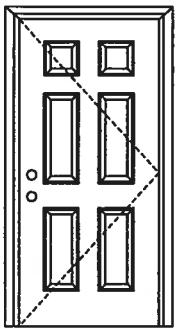


**X**
Opaque Inswing Unit

COP-WL-JH4101-02

# WOOD-EDGE STEEL DOORS

## APPROVED ARRANGEMENT:



**Note:**
Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Single Door
Maximum unit size = 3'0" x 6'8"

**Design Pressure**
+66.0/-66.0
limited water unless special threshold design is used.

**Large Missile Impact Resistance**
Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

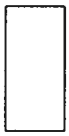
## MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0001-02.

## MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

## APPROVED DOOR STYLES:


Flush


Arch Top 3-panel


3-panel


6-panel


New England 4-panel


Eyebrow 4-panel


8-panel


9-panel


15-panel


5-panel


5-panel with scroll


Eyebrow 5-panel


Eyebrow 5-panel with scroll



Johnson™ EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR® Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

**X**
Opaque Inswing Unit

**COP-WL-JH4101-02**

# WOOD-EDGE STEEL DOORS

## CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

## PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

**COMPANY NAME**
CITY, STATE

**To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).**

Kurt L Balthy

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etisemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.



Johnson™ EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR® Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

# 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: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

### Raised Profile

| | |
|---|---|
| Product size | 13¼"x 38¾" |
| Exposure | 5⅝" |
| Pieces/Bundle | 22 |
| Bundles/Square | 3/100 sq.ft. |
| Squares/Pallet | 16 |

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

### 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: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

### Prestique *High Definition*

| | |
|---|---|
| Product size | 13¼"x 38¾" |
| Exposure | 5⅝" |
| Pieces/Bundle | 22 |
| Bundles/Square | 3/100 sq.ft. |
| Squares/Pallet | 16 |

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

### HIP AND RIDGE SHINGLES

**Seal-A-Ridge® w/*FLX*™**
Size: 12"x 12"
Exposure: 6⅛"
Pieces/Bundle: 45
Coverage: 4 Bundles = 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: Antique Slate, Weatheredwood, 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 roofing products contain Elk WindGuard® sealant. WindGuard 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. Not available in Sablewood.

**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 meet the latest Metro Dade building code requirements.**

*See actual limited warranty for conditions and limitations.
**Check for product availability.

## 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 I 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

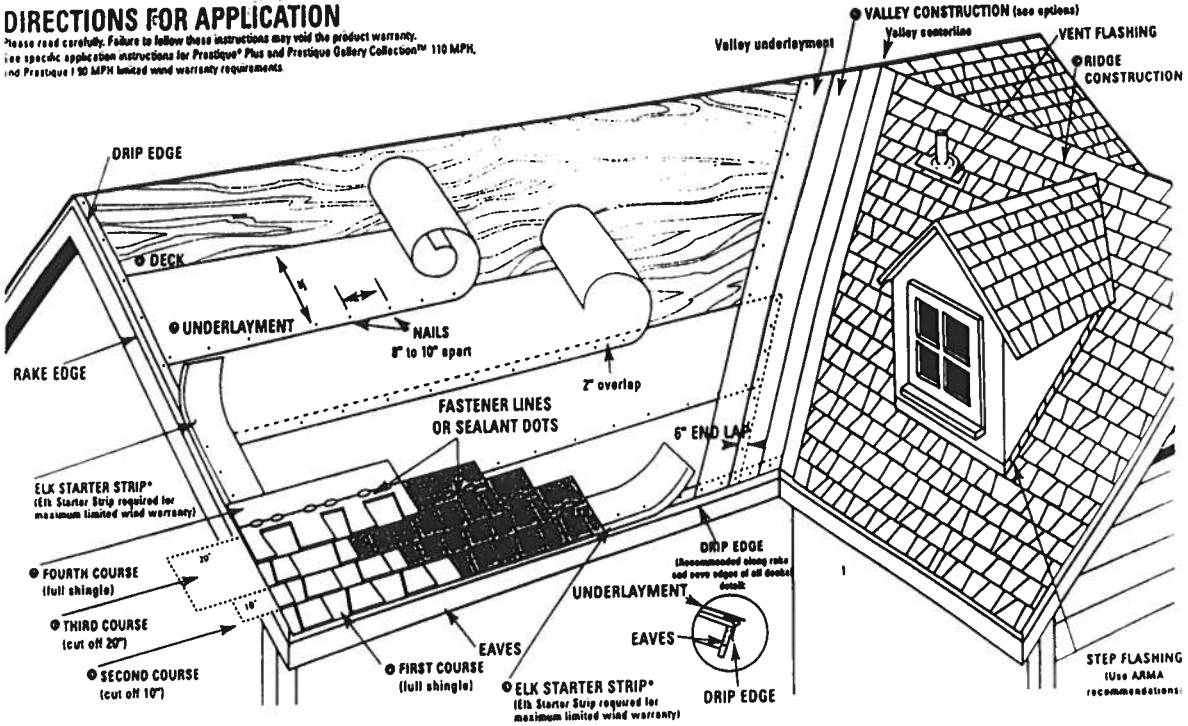
**CORPORATE HEADQUARTERS:**
800.354.7732

**PLANT LOCATION:**
800.945.5545

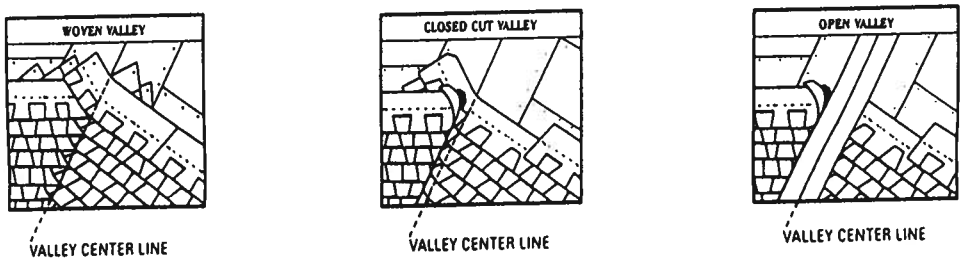
ELK
www.elkcorp.com

# DIRECTIONS FOR APPLICATION

Please read carefully. Failure to follow these instructions may void the product warranty.
See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH, and Prestique I 90 MPH limited wind warranty requirements.




VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual




## 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 6" 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). 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 Field Service Department for application specifications over other decks and other slopes.

### ❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 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

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

### ❻ 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.

### ❼ 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 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

### ❽ RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula *FLX*™ (See ridge package for installation instructions.)

### FASTENERS

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

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with 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.

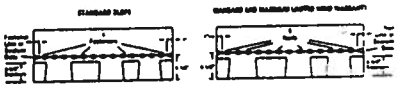
Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

### 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.

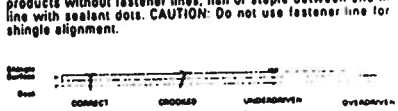
### LIMITED WIND WARRANTY

- 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, 6 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



### 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 UL® 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

www.elkcorp.com

# Residential System Sizing Calculation

## Summary

Spec House

, FL

Project Title:
511233HitsonShirley

Class 3 Rating
Registration No. 0
Climate: North

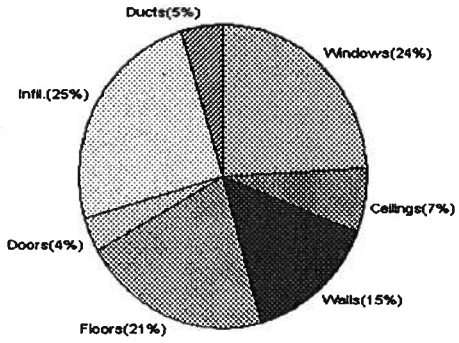
12/8/2005

| Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M) | | | | | |
|---|---|---|---|---|---|
| Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.) | | | | | |
| Winter design temperature | 31 | F | Summer design temperature | 93 | F |
| Winter setpoint | 70 | F | Summer setpoint | 75 | F |
| Winter temperature difference | 39 | F | Summer temperature difference | 18 | F |
| **Total heating load calculation** | **25515** | **Btuh** | **Total cooling load calculation** | **23952** | **Btuh** |
| Submitted heating capacity | % of calc | Btuh | Submitted cooling capacity | % of calc | Btuh |
| Total (Electric Heat Pump) | 117.6 | 30000 | Sensible (SHR = 0.5) | 82.7 | 15000 |
| Heat Pump + Auxiliary(0.0kW) | 117.6 | 30000 | Latent | 258.5 | 15000 |
| | | | Total (Electric Heat Pump) | 125.2 | 30000 |

## WINTER CALCULATIONS

Winter Heating Load (for 1364 sqft)

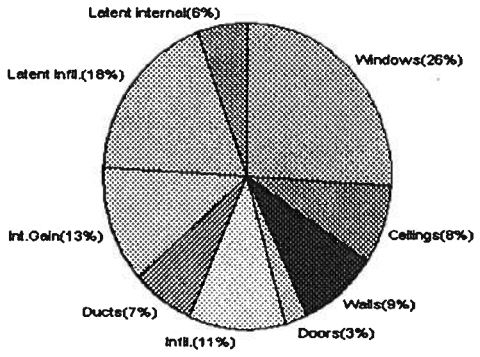
| Load component | | | Load | |
|---|---|---|---|---|
| Window total | 218 | sqft | 6169 | Btuh |
| Wall total | 1274 | sqft | 3715 | Btuh |
| Door total | 60 | sqft | 921 | Btuh |
| Ceiling total | 1388 | sqft | 1804 | Btuh |
| Floor total | 172 | ft | 5435 | Btuh |
| Infiltration | 146 | cfm | 6254 | Btuh |
| **Subtotal** | | | **24300** | **Btuh** |
| Duct loss | | | 1215 | Btuh |
| **TOTAL HEAT LOSS** | | | **25515** | **Btuh** |




## SUMMER CALCULATIONS

Summer Cooling Load (for 1364 sqft)

| Load component | | | Load | |
|---|---|---|---|---|
| Window total | 218 | sqft | 6286 | Btuh |
| Wall total | 1274 | sqft | 2108 | Btuh |
| Door total | 60 | sqft | 608 | Btuh |
| Ceiling total | 1388 | sqft | 1971 | Btuh |
| Floor total | | | 0 | Btuh |
| Infiltration | 128 | cfm | 2526 | Btuh |
| Internal gain | | | 3000 | Btuh |
| **Subtotal(sensible)** | | | **16499** | **Btuh** |
| Duct gain | | | 1650 | Btuh |
| **Total sensible gain** | | | **18148** | **Btuh** |
| Latent gain(infiltration) | | | 4424 | Btuh |
| Latent gain(internal) | | | 1380 | Btuh |
| **Total latent gain** | | | **5804** | **Btuh** |
| **TOTAL HEAT GAIN** | | | **23952** | **Btuh** |




EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY:

DATE: 12-8-05

# System Sizing Calculations - Winter

## Residential Load - Component Details

Spec House
, FL

Project Title:
511233HitsonShirley

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

12/8/2005

| Window | Panes/SHGC/Frame/U | Orientation | Area X | HTM= | Load |
|---|---|---|---|---|---|
| 1 | 2, Clear, Metal, DEF | N | 6.0 | 28.3 | 170 Btuh |
| 2 | 2, Clear, Metal, DEF | N | 45.0 | 28.3 | 1274 Btuh |
| 3 | 2, Clear, Metal, DEF | N | 20.0 | 28.3 | 566 Btuh |
| 4 | 2, Clear, Metal, DEF | N | 9.0 | 28.3 | 255 Btuh |
| 5 | 2, Clear, Metal, DEF | N | 40.0 | 28.3 | 1132 Btuh |
| 6 | 2, Clear, Metal, DEF | S | 15.0 | 28.3 | 424 Btuh |
| 7 | 2, Clear, Metal, DEF | S | 7.0 | 28.3 | 198 Btuh |
| 8 | 2, Clear, Metal, DEF | S | 60.0 | 28.3 | 1698 Btuh |
| 9 | 2, Clear, Metal, DEF | S | 6.0 | 28.3 | 170 Btuh |
| 10 | 2, Clear, Metal, DEF | W | 10.0 | 28.3 | 283 Btuh |
| | Window Total | | 218 | | 6169 Btuh |
| **Walls** | Type | R-Value | Area X | HTM= | Load |
| 1 | Frame - Exterior | 13.0 | 1118 | 3.1 | 3466 Btuh |
| 2 | Frame - Adjacent | 13.0 | 156 | 1.6 | 250 Btuh |
| | Wall Total | | 1274 | | 3715 Btuh |
| **Doors** | Type | | Area X | HTM= | Load |
| 1 | Insulated - Exter | | 20 | 18.3 | 367 Btuh |
| 2 | Insulated - Exter | | 20 | 18.3 | 367 Btuh |
| 3 | Insulated - Adjac | | 20 | 9.4 | 188 Btuh |
| | Door Total | | 60 | | 921Btuh |
| **Ceilings** | Type | R-Value | Area X | HTM= | Load |
| 1 | Under Attic | 30.0 | 1388 | 1.3 | 1804 Btuh |
| | Ceiling Total | | 1388 | | 1804Btuh |
| **Floors** | Type | R-Value | Size X | HTM= | Load |
| 1 | Slab-On-Grade Edge Insul | 0 | 172.0 ft(p) | 31.6 | 5435 Btuh |
| | Floor Total | | 172 | | 5435 Btuh |
| **Infiltration** | Type | ACH X | Building Volume | CFM= | Load |
| | Natural | 0.80 | 10912(sqft) | 146 | 6254 Btuh |
| | Mechanical | | | 0 | 0 Btuh |
| | Infiltration Total | | | 146 | 6254 Btuh |

| | | |
|---|---|---|
| **Totals for Heating** | **Subtotal** | **24300 Btuh** |
| | **Duct Loss(using duct multiplier of 0.05)** | **1215 Btuh** |
| | **Total Btuh Loss** | **25515 Btuh** |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
511233HitsonShirley

Class 3 Rating
Registration No. 0
Climate: North

12/8/2005

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(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 )

# System Sizing Calculations - Summer

## Residential Load - Component Details

Spec House
, FL

Project Title:
511233HitsonShirley

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults)  Summer Temperature Difference: 18.0 F  12/8/2005

| Window | Type Panes/SHGC/U/InSh/ExSh | Ornt | Overhang Len | Hgt | Window Area(sqft) Gross | Shaded | Unshaded | HTM Shaded | Unshaded | Load |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2, Clear, DEF, N, N | N | 1.5 | 3.5 | 6.0 | 0.0 | 6.0 | 22 | 22 | 132 Btuh |
| 2 | 2, Clear, DEF, N, N | N | 1.5 | 5.5 | 45.0 | 0.0 | 45.0 | 22 | 22 | 990 Btuh |
| 3 | 2, Clear, DEF, N, N | N | 1.5 | 8 | 20.0 | 0.0 | 20.0 | 22 | 22 | 440 Btuh |
| 4 | 2, Clear, DEF, N, N | N | 1.5 | 3.5 | 9.0 | 0.0 | 9.0 | 22 | 22 | 198 Btuh |
| 5 | 2, Clear, DEF, N, N | N | 1.5 | 8 | 40.0 | 0.0 | 40.0 | 22 | 22 | 880 Btuh |
| 6 | 2, Clear, DEF, N, N | S | 6 | 5.5 | 15.0 | 15.0 | 0.0 | 22 | 37 | 330 Btuh |
| 7 | 2, Clear, DEF, N, N | S | 6 | 8 | 7.0 | 7.0 | 0.0 | 22 | 37 | 154 Btuh |
| 8 | 2, Clear, DEF, N, N | S | 0 | 0 | 60.0 | 0.0 | 60.0 | 22 | 37 | 2220 Btuh |
| 9 | 2, Clear, DEF, N, N | S | 0 | 0 | 6.0 | 0.0 | 6.0 | 22 | 37 | 222 Btuh |
| 10 | 2, Clear, DEF, N, N | W | 1.5 | 5.5 | 10.0 | 0.0 | 10.0 | 22 | 72 | 720 Btuh |
| | Window Total | | | | 218 | | | | | 6286 Btuh |

| Walls | Type | R-Value | Area | HTM | Load |
|---|---|---|---|---|---|
| 1 | Frame - Exterior | 13.0 | 1118.0 | 1.7 | 1945 Btuh |
| 2 | Frame - Adjacent | 13.0 | 156.0 | 1.0 | 162 Btuh |
| | Wall Total | | 1274.0 | | 2108 Btuh |

| Doors | Type | Area | HTM | Load |
|---|---|---|---|---|
| 1 | Insulated - Exter | 20.0 | 10.1 | 203 Btuh |
| 2 | Insulated - Exter | 20.0 | 10.1 | 203 Btuh |
| 3 | Insulated - Adjac | 20.0 | 10.1 | 203 Btuh |
| | Door Total | 60.0 | | 608 Btuh |

| Ceilings | Type/Color | R-Value | Area | HTM | Load |
|---|---|---|---|---|---|
| 1 | Under Attic/Dark | 30.0 | 1388.0 | 1.4 | 1971 Btuh |
| | Ceiling Total | | 1388.0 | | 1971 Btuh |

| Floors | Type | R-Value | Size | HTM | Load |
|---|---|---|---|---|---|
| 1 | Slab-On-Grade Edge Insulation | 0.0 | 172.0 ft(p) | 0.0 | 0 Btuh |
| | Floor Total | | 172.0 | | 0 Btuh |

| Infiltration | Type | ACH | Volume | CFM= | Load |
|---|---|---|---|---|---|
| | Natural | 0.70 | 10912 | 127.6 | 2526 Btuh |
| | Mechanical | | | 0 | 0 Btuh |
| | Infiltration Total | | | 128 | 2526 Btuh |

| Internal gain | | Occupants | | Btuh/occupant | | Appliance | Load |
|---|---|---|---|---|---|---|---|
| | | 6 | X | 300 | + | 1200 | 3000 Btuh |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
511233HitsonShirley

Class 3 Rating
Registration No. 0
Climate: North

12/8/2005

| | | | |
|---|---|---|---|
| Totals for Cooling | Subtotal | 16499 | Btuh |
| | Duct gain(using duct multiplier of 0.10) | 1650 | Btuh |
| | Total sensible gain | 18148 | Btuh |
| | Latent infiltration gain (for 51 gr. humidity difference) | 4424 | Btuh |
| | Latent occupant gain (6 people @ 230 Btuh per person) | 1380 | Btuh |
| | Latent other gain | 0 | Btuh |
| | TOTAL GAIN | 23952 | Btuh |

Key: Window types (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/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

Weggie

# Columbia County Building Department
# Culvert Waiver

**Culvert Waiver No.**
**000001058** 1059

DATE: 04/24/2006 BUILDING PERMIT NO. 24417

APPLICANT CHARLES PEELER PHONE 752-9576

ADDRESS 2054 SW DAIRY STREET LAKE CITY FL 32024

OWNER CHARLES PEELER PHONE 623-4448

ADDRESS 138 SW GREMLIN WAY LAKE CITY FL 32024

CONTRACTOR CHARLES PEELER PHONE 623-4448

LOCATION OF PROPERTY 247S, TR ON STEVENS RD, TL ON GREMLIN WAY, 3RD LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT SHADY OAKS 10

PARCEL ID # 20-4S-16-03079-068

**I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.**

**SIGNATURE:**

**A SEPARATE CHECK IS REQUIRED**
**MAKE CHECKS PAYABLE TO BCC**

**Amount Paid 50.00**

---

**PUBLIC WORKS DEPARTMENT USE ONLY**

**I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE CULVERT WAIVER IS:**

✓ APPROVED _____ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS:

SIGNED: Ricky Pitts DATE: 4/28/06

**ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.**

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

RECEIVED
APR 26 2006
BY:

COLUMBIA COUNTY FLORIDA

GTC DESIGN GROUP

GTC Design Group, LLC
P.O. Box 187
Live Oak, FL 32064
(Phone) 386.362.3678
(Fax) 386.362.6133
cwilliams3@alltel.net

# Finish Floor Elevation Certification

**Owner:** **Hitson Peeler**
**2218 US 90 West**
**Suite 103 Westside Plaza**
**Lake City, Florida 32055**

**Description:** **Lot 9, Shady Oaks Subdivision**

**Parcel ID#** **20-4S-16-03079-068**

**Foundation Requirements:**

For protection against water damage, the minimum finish floor elevation of the proposed structure shall be 12 inches above the existing ground at any point along the perimeter of the proposed structure. In no case shall the finish floor elevation be more than 6 inches below the centerline of the adjacent roadway, SW Gremlin Way.

The ground around the proposed structure shall be graded such as to convey all stormwater runoff away from the proposed structure.

The above elevations are based on the structure's current staked location, approximately +/-50 feet West from SW Gremlin Way.

Chadwick W. Williams
P. E. License Number: 63144
May 5, 2006

24417

# CERTIFICATE OF OCCUPANCY

## COLUMBIA COUNTY, FLORIDA

## Department of Building and Zoning Inspection

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

**Parcel Number** 20-4S-16-03079-068 **Building permit No.** 000024417

**Use Classification** SFD,UTILITY **Fire:** 17.76

**Permit Holder** CHARLES PEELER **Waste:** 36.75

**Owner of Building** CHARLES PEELER **Total:** 54.51

**Location:** 138 SW GREMLIN WAY

**Date:** 07/26/2006

Harry Dicks

**Building Inspector**

**POST IN A CONSPICUOUS PLACE**
***(Business Places Only)***

# Alpine Engineered Products, Inc.

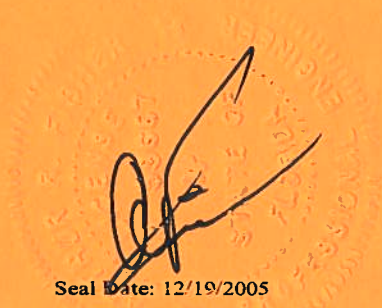
1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1ST2487-Z0219093811

| | |
|---|---|
| Truss Fabricator: | Anderson Truss Company |
| Job Identification: | 5-549-SHIRLEY HITSON - #9 SHADY OAKS |
| Truss Count: | 19 |
| Model Code: | Florida Building Code 2004 |
| Truss Criteria: | ANSI/TPI-2002(STD)/FBC |
| Engineering Software: | Alpine Software,Version 7.22. |
| Structural Engineer of Record: | |
| Address: | |
| Minimum Design Loads: | Roof - 40.0 PSF @ 1.25 Duration<br>Floor - N/A<br>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: HCUSR487

Details: BRCLBSUB



Seal Date: 12/19/2005

-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

| # | Ref | Description | Drawing# | Date |
|---|---|---|---|---|
| 1 | 34216 | A1-GE | 05353063 | 12/19/05 |
| 2 | 34217 | A2 | 05353051 | 12/19/05 |
| 3 | 34218 | A3 | 05353047 | 12/19/05 |
| 4 | 34219 | A4 | 05353052 | 12/19/05 |
| 5 | 34220 | A5 | 05353053 | 12/19/05 |
| 6 | 34221 | A6 | 05353054 | 12/19/05 |
| 7 | 34222 | B1-GE | 05353055 | 12/19/05 |
| 8 | 34223 | B2 | 05353048 | 12/19/05 |
| 9 | 34224 | B3 | 05353056 | 12/19/05 |
| 10 | 34225 | B4 | 05353057 | 12/19/05 |
| 11 | 34226 | B5 | 05353058 | 12/19/05 |
| 12 | 34227 | B6 | 05353059 | 12/19/05 |
| 13 | 34228 | C1-GE | 05353064 | 12/19/05 |
| 14 | 34229 | C2 | 05353049 | 12/19/05 |
| 15 | 34230 | C3 | 05353050 | 12/19/05 |
| 16 | 34231 | C4G | 05353060 | 12/19/05 |
| 17 | 34232 | D1-GE | 05353061 | 12/19/05 |
| 18 | 34233 | D2G | 05353065 | 12/19/05 |
| 19 | 34234 | K1-GE | 05353062 | 12/19/05 |

# Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
 Document ID:1ST2487-Z0219093811

| | |
|---|---|
| Truss Fabricator: | Anderson Truss Company |
| Job Identification: | 5-549-SHIRLEY HITSON - #9 SHADY OAKS (5-549\|-SHIRLEY HITSON - #9 SHADY OAKS) |
| Truss Count: | 3 |
| Model Code: | Florida Building Code 2004 |
| Truss Criteria: | ANSI/TPI-2002(STD)/FBC |
| Engineering Software: | Alpine Software,Version 7.22. |
| Structural Engineer of Record: | |
| Address: | |
| Minimum Design Loads: | Roof - 40.0 PSF @ 1.25 Duration<br>Floor - N/A<br>Wind - 110 MPH ASCE 7-02 -Closed |

Notes:

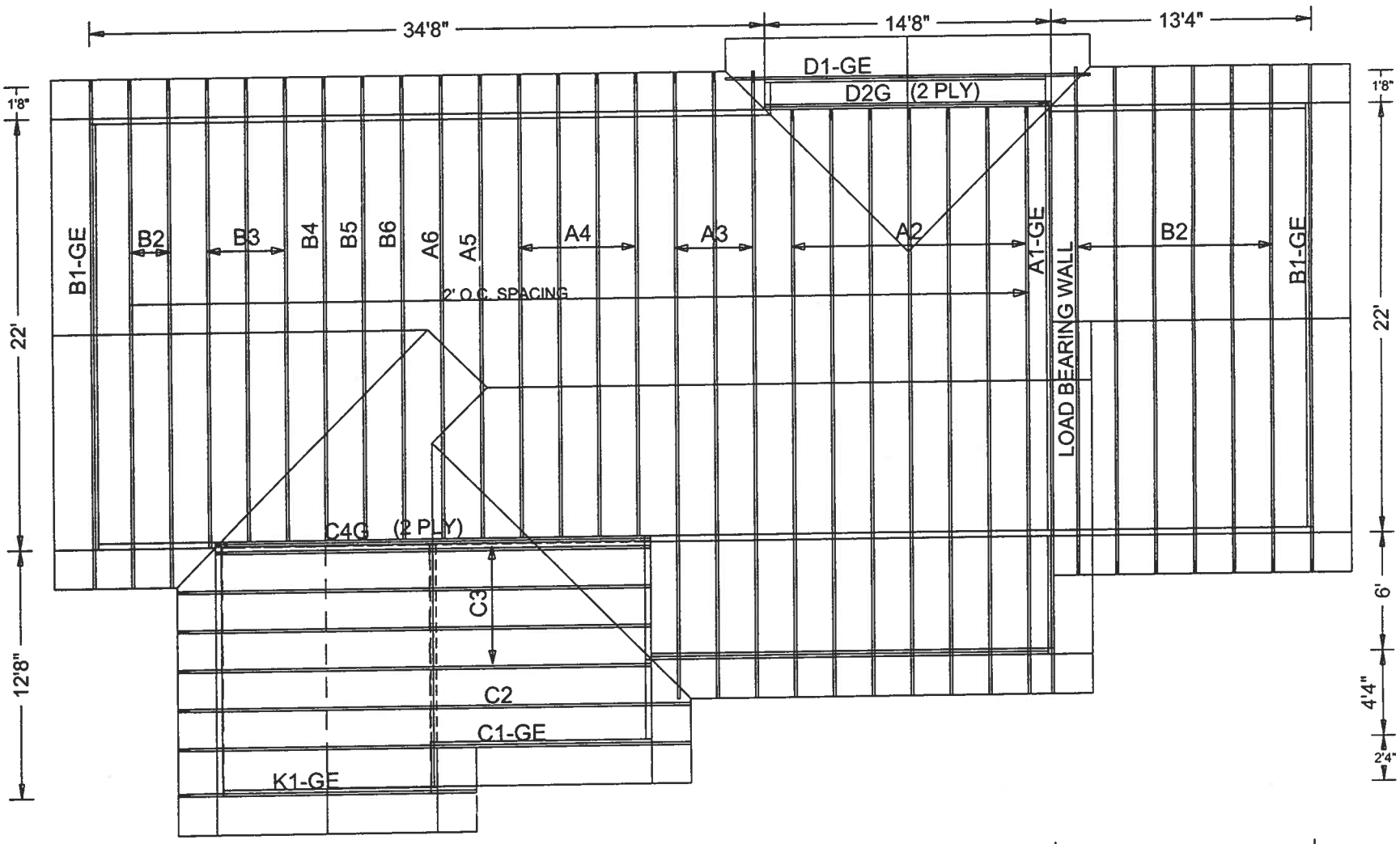
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR487

Seal Date: 12/19/2005

-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

## Revised Trusses

| # | Ref | Description | Drawing# | Date |
|---|---|---|---|---|
| 1 | 34216--A1-GE | | 05353063 | 12/19/05 |
| 2 | 34228--C1-GE | | 05353064 | 12/19/05 |
| 3 | 34234--K1-GE | | 05353062 | 12/19/05 |




# #5-549 SHIRLEY HITSON - LOT #9 SHADY OAKS

12/16/05

Scale: 1/8" = 1'

Charles Peeler
754-4963 or 623-4448

| JOB NO: 5-549 | PAGE NO: 1 OF 1 |
|---|---|

(5-549-SHIRLEY HITSON - #9 SHADY OAKS - A1-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 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 11.00 |
| TC - From | 113 PLF | at | 11.00 | to | 113 PLF | at 14.00 |
| TC - From | 113 PLF | at | 14.00 | to | 113 PLF | at 22.00 |
| TC - From | 83 PLF | at | 22.00 | to | 83 PLF | at 28.00 |
| TC - From | 62 PLF | at | 28.00 | to | 62 PLF | at 30.00 |
| BC - From | 20 PLF | at | 0.00 | to | 4 PLF | at 30.00 |

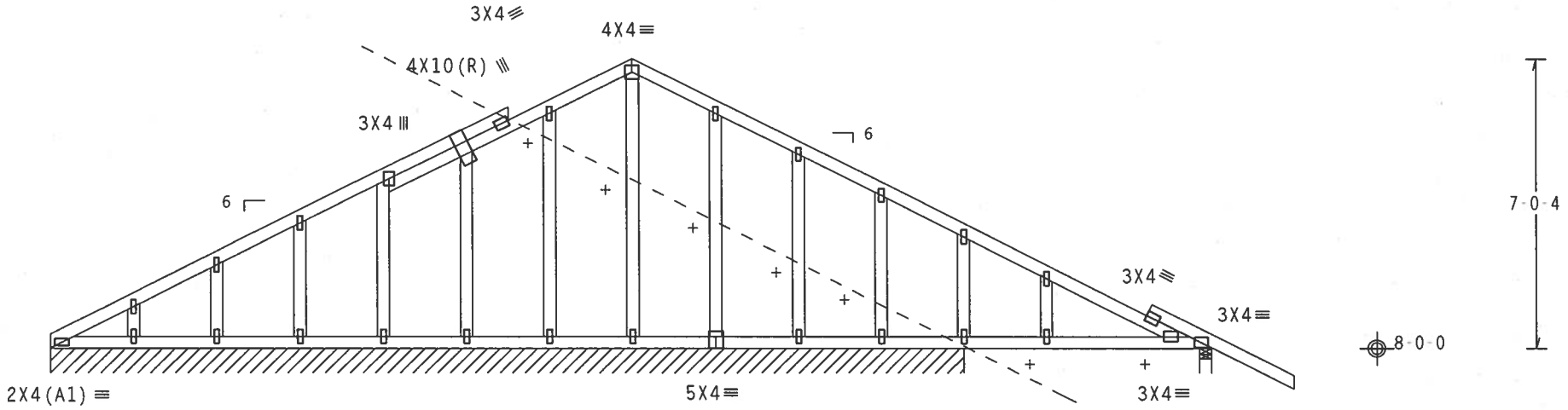
+ LATERALLY BRACE FOR HORIZONTAL WIND LOADS.
BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

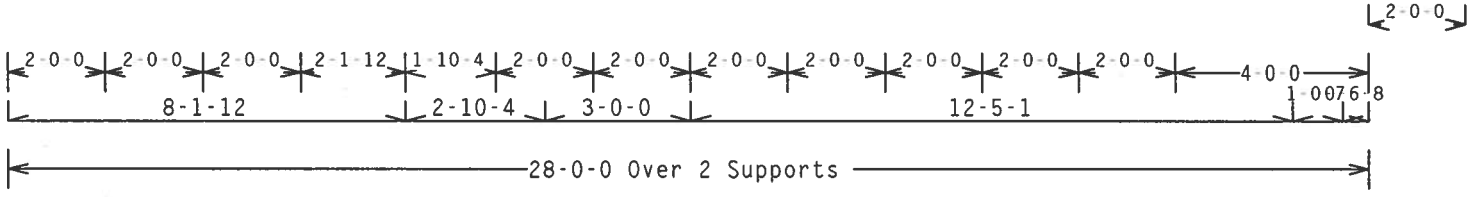
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load.

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

See DWGS A10015EE0405, GBLLETIN0405, & GBLBRSTD0405 for more requirements.




Note: All Plates Are 1.5X4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.11 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marlev Drive

**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

**IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, 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. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W, K/H,S) 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

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 19 '05

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R487-- 34216 |
| TC DL | 10.0 PSF | DATE | 12/19/05 |
| BC DL | 10.0 PSF | DRW | HCUSR487 05353063 |
| BC LL | 0.0 PSF | HC-ENG | DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- | 67221 REV |
| DUR.FAC. | 1.25 | | |

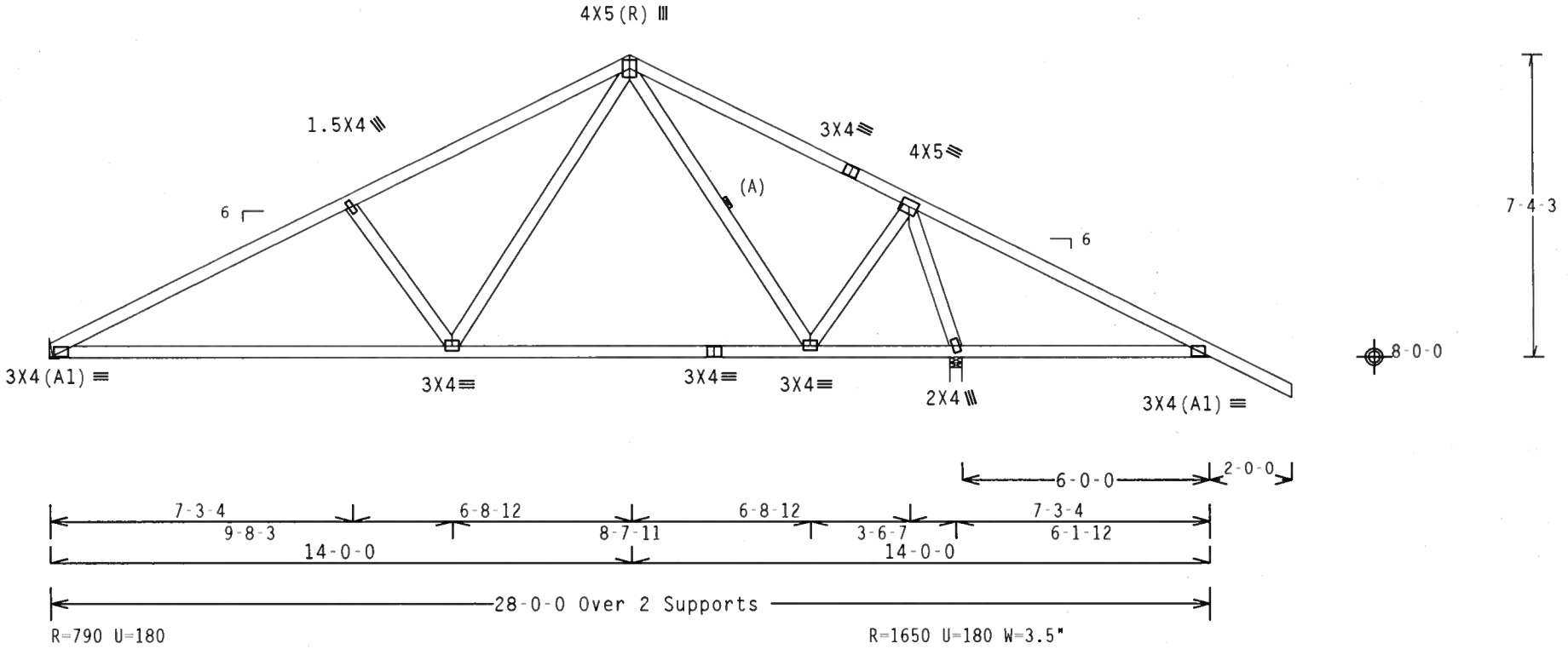
(5 549 SHIRLEY HITSON #9 SHADY OAKS A2)

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

(A) Continuous lateral bracing equally spaced on member.

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.

Deflection meets L/360 live and L/240 total load.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:7 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 19,05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34217 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353051 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 67170 |
| DUR.FAC. | 1.25 | |

(5-549-SHIRLEY HITSON - #9 SHADY OAKS - A3)

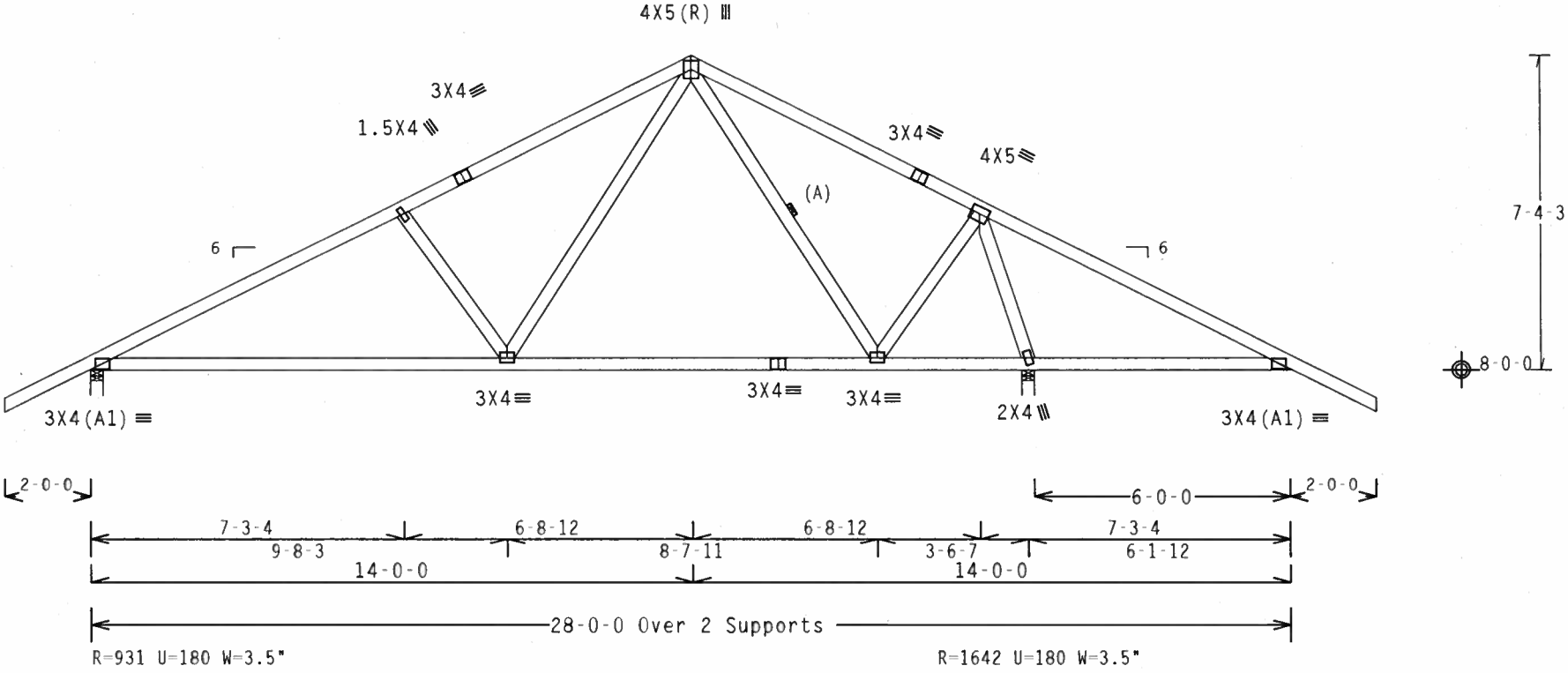
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.

NOTE: THIS TRUSS MUST BE INSTALLED AS SHOWN. IT CAN NOT BE FLIPPED END FOR END.

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.

Deflection meets L/360 live and L/240 total load.




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:3 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 19 '05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34218 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353047 |
| BC LL | 0.0 PSF | HC-ENG DF/AF * |
| TOT.LD. | 40.0 PSF | SEQN- 19222 |
| DUR.FAC. | 1.25 | |

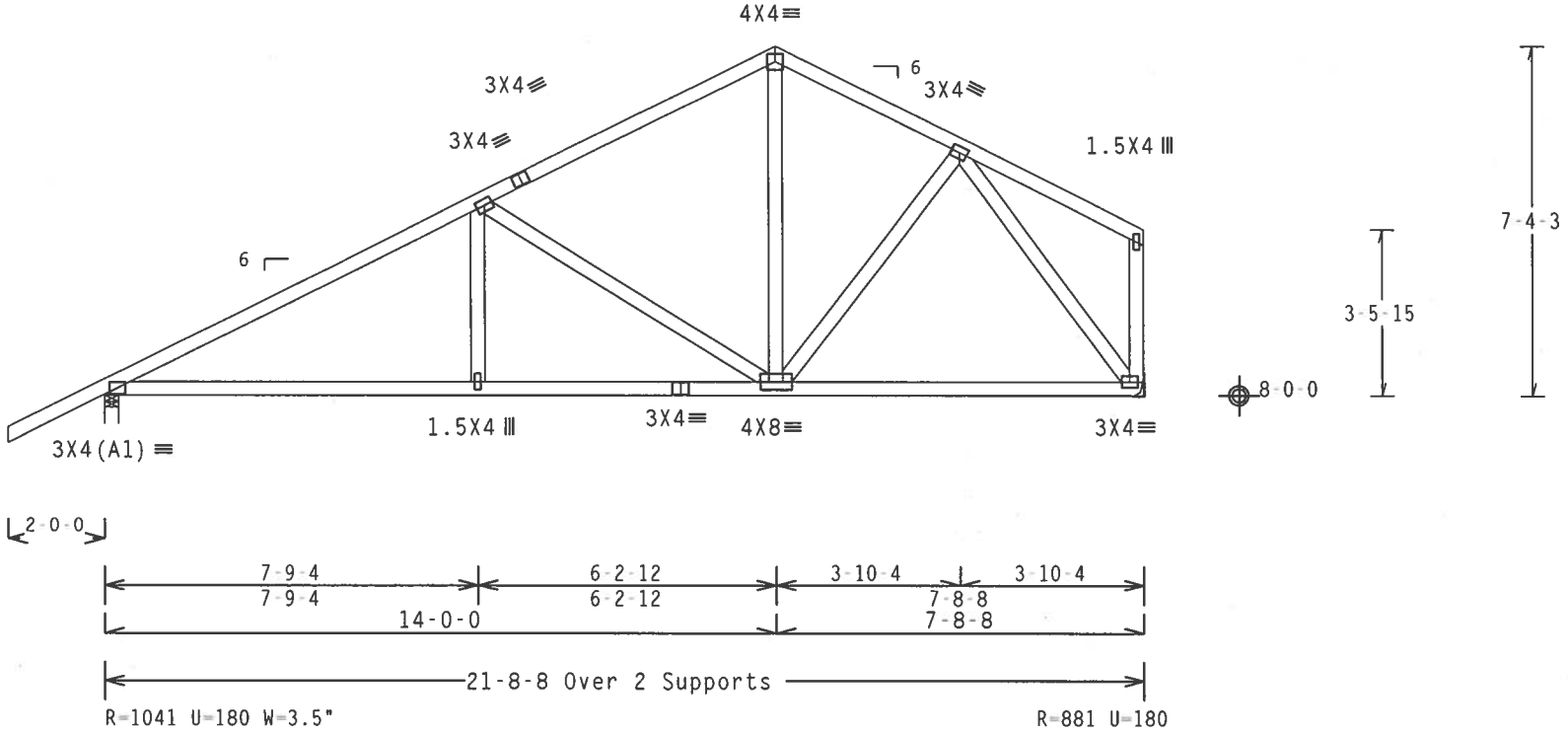
(5-549-SHIRLEY HITSON #9 SHADY OAKS A4)

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

Deflection meets L/360 live and L/240 total load.

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.

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) 7.22.11 TY:4 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive

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ARTHUR R. FISHER LICENSE No.59680 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 19 '05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34219 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353052 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 19199 |
| DUR.FAC. | 1.25 | |

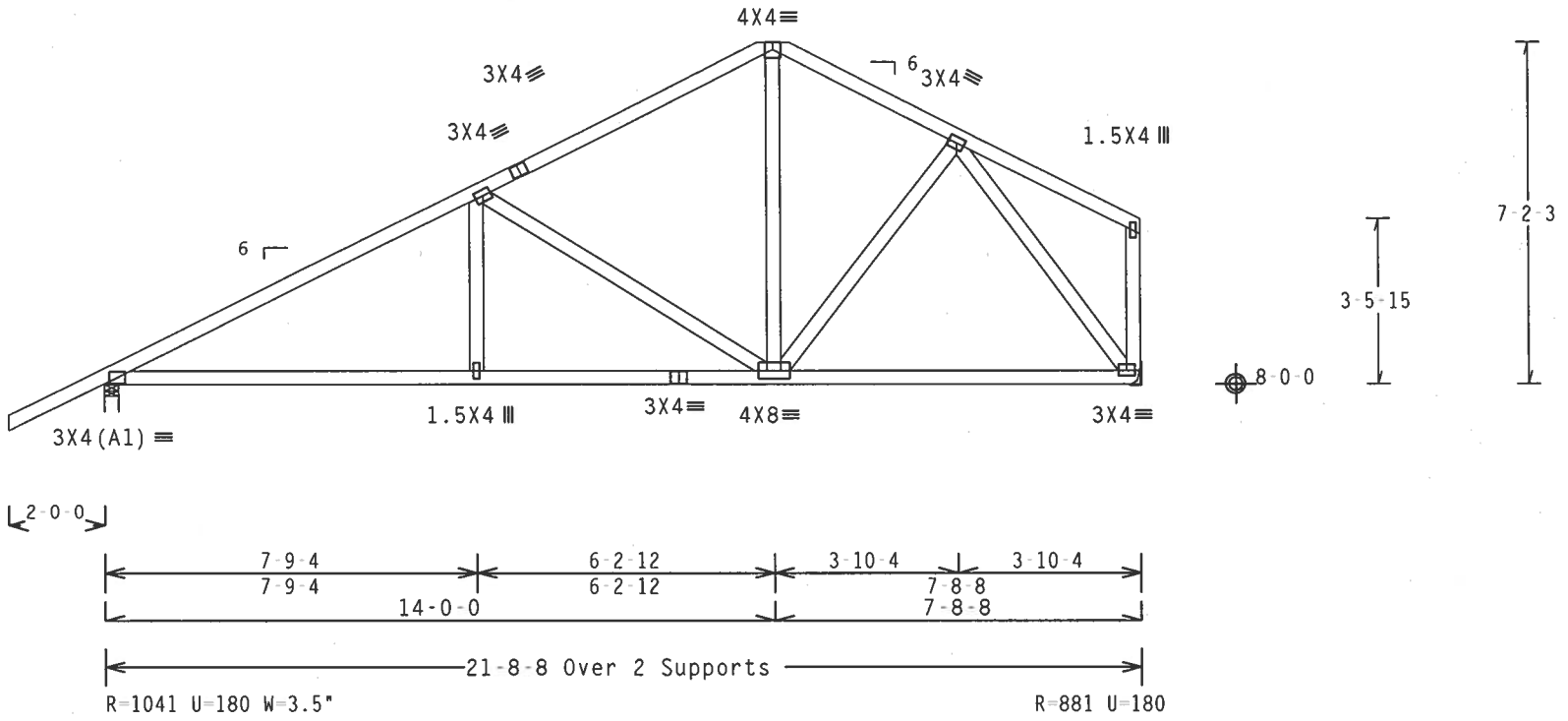
(5-549-SHIRLEY HITSON - #9 SHADY OAKS - A5)

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

Deflection meets L/360 live and L/240 total load.

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.

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) 7.22.1 TY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 19 '05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34220 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353053 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 19205 |
| DUR.FAC. | 1.25 | |

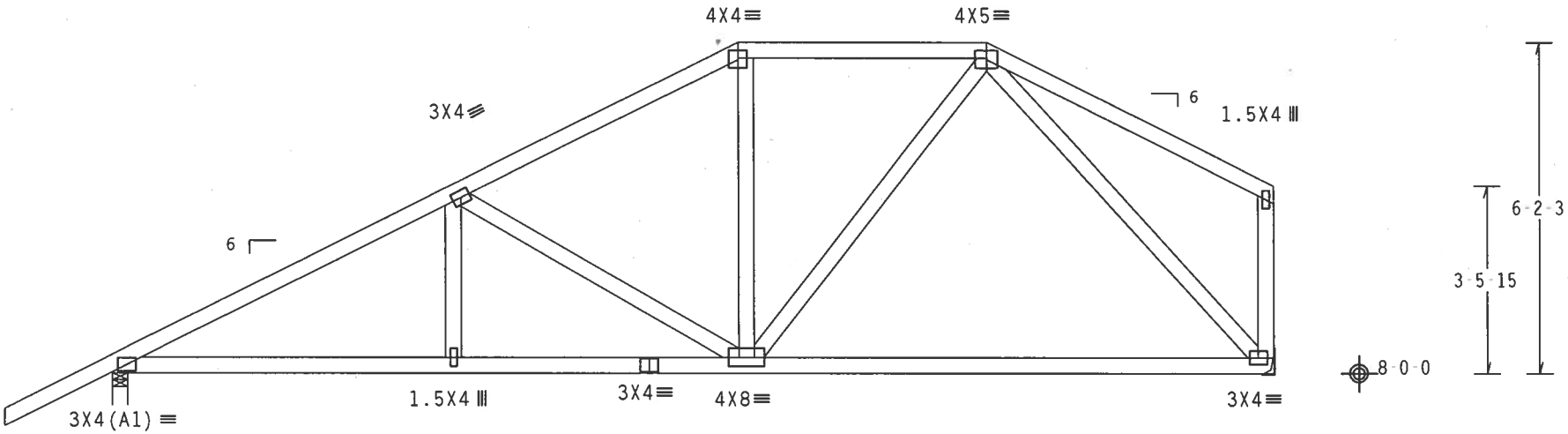
(5-549-SHIRLEY HITSON #9 SHADY OAKS A6)

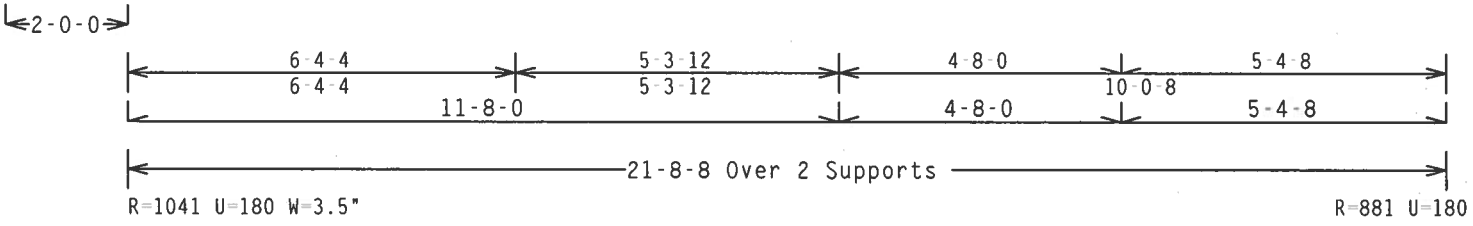
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Deflection meets L/360 live and L/240 total load.

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.

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

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ARTHUR R. FISHER LICENSE No.69687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 19 '05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34221 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353054 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 19184 |
| DUR.FAC. | 1.25 | |

(5-549-SHIRLEY HITSON #9 SHADY OAKS B1-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

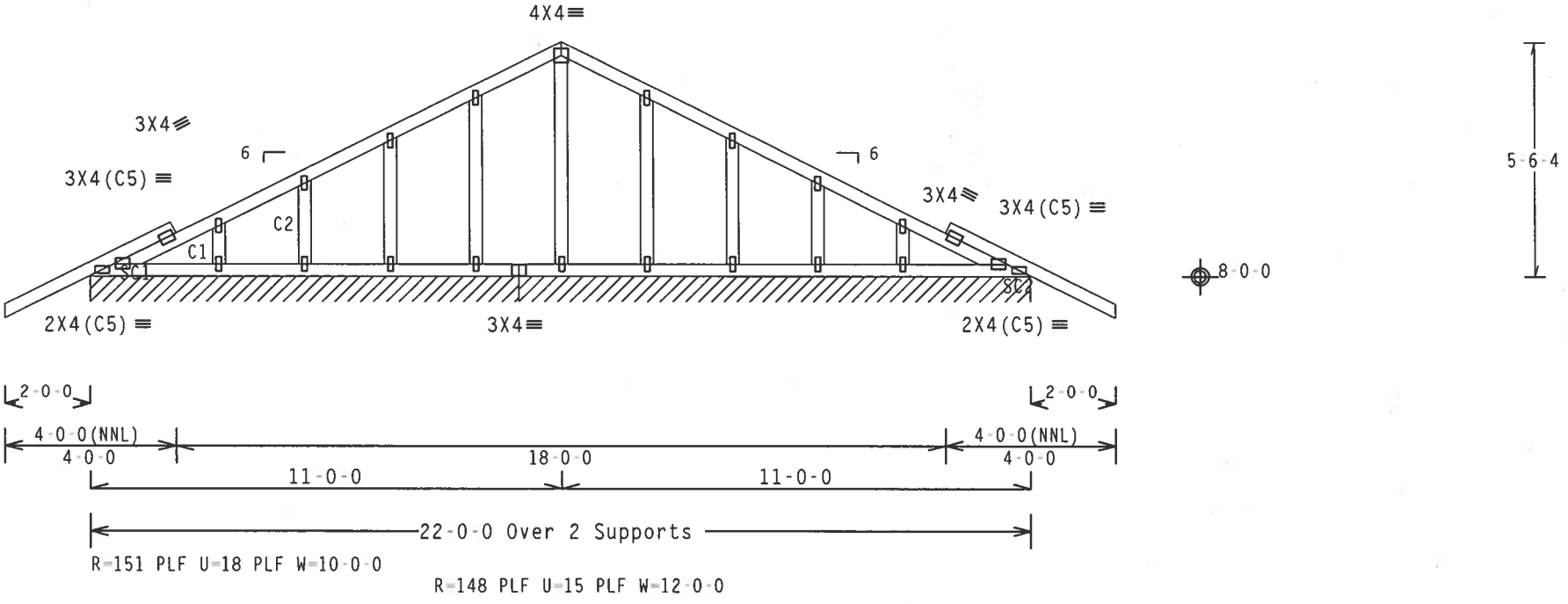
See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Deflection meets L/360 live and L/240 total load.

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.

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




Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:2 FL/-/4/-/-/R/- Scale =.25"/Ft.

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 19 '05

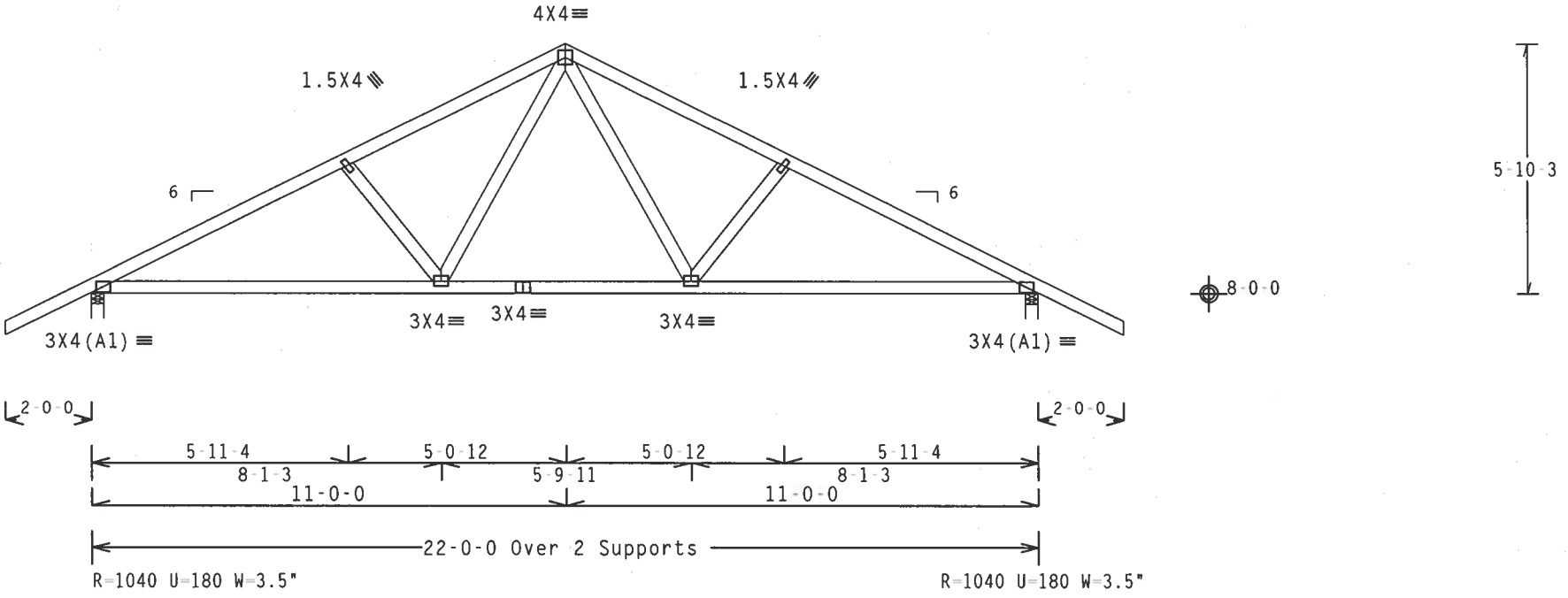
| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34222 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353055 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 19088 |
| DUR.FAC. | 1.25 | |

(5-549-SHIRLEY HITSON #9 SHADY OAKS B2)

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

Deflection meets L/360 live and L/240 total load.

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.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:8 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 19, 05

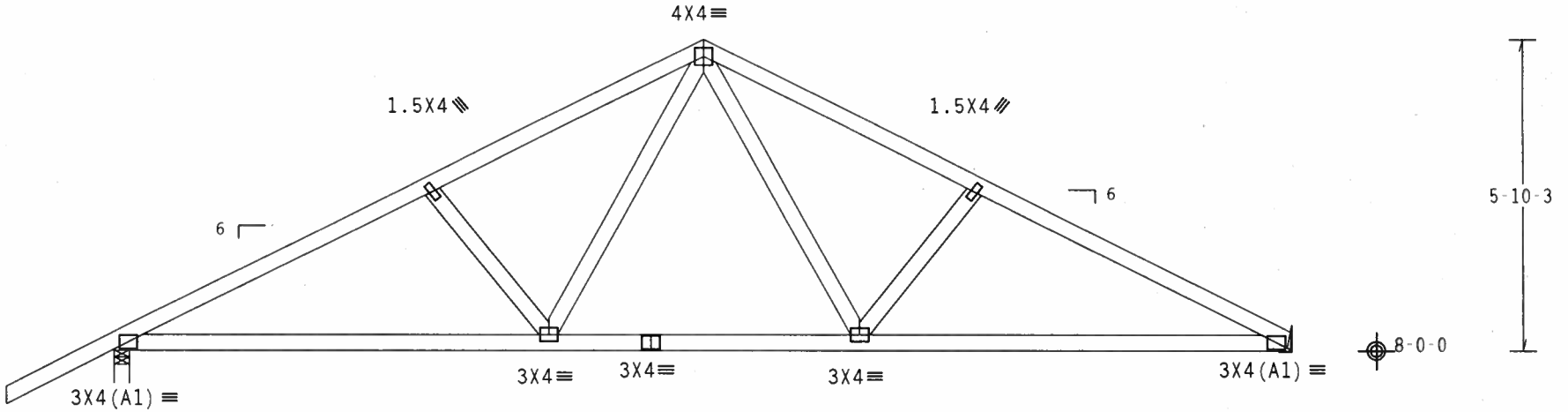
| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34223 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353048 |
| BC LL | 0.0 PSF | HC-ENG DF/AF * |
| TOT.LD. | 40.0 PSF | SEQN- 19074 |
| DUR.FAC. | 1.25 | |

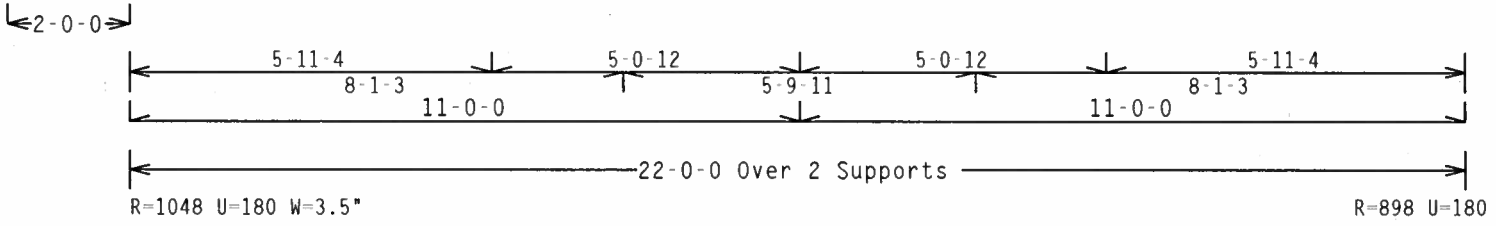
(J 349 SHIRLEY HITSON #9 SHADY OAKS B3)

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

Deflection meets L/360 live and L/240 total load.

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.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:3 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Dec 19 05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34224 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353056 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 67252 |
| DUR.FAC. | 1.25 | |

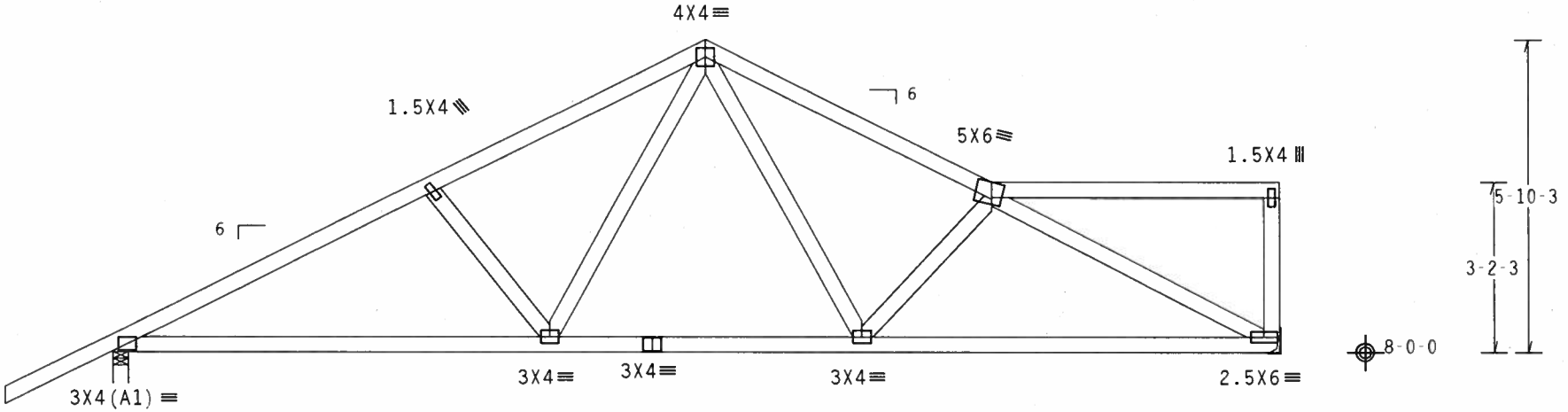
(5-949-SHIRLEY HITSON #9 SHADY OAKS B4)

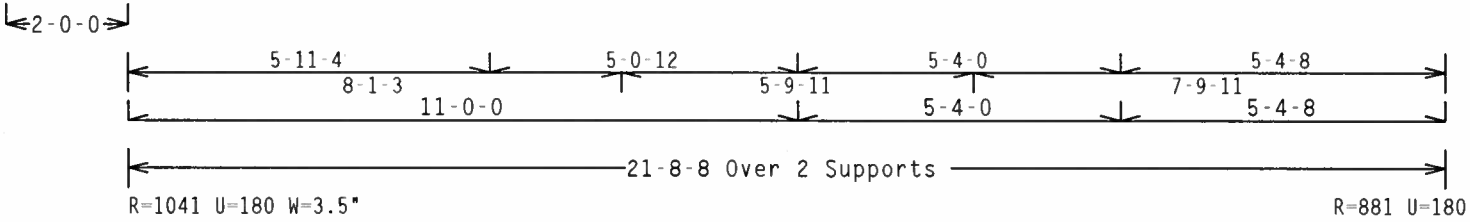
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Deflection meets L/360 live and L/240 total load.

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.

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

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1950 Marley Drive

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 19 '05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34225 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353057 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 19136 |
| DUR.FAC. | 1.25 | |

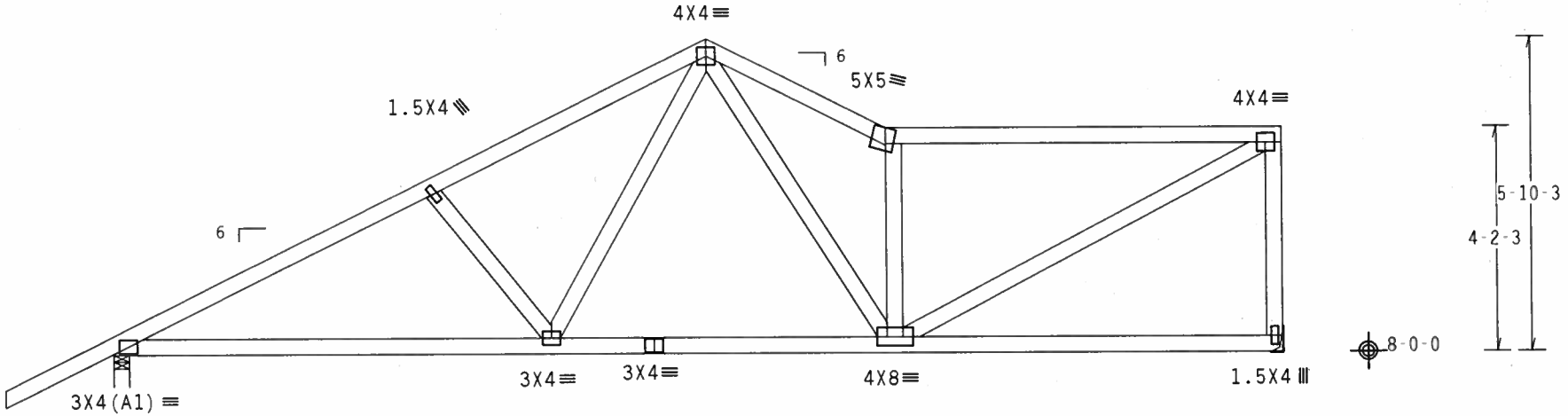
(5-549-SHIRLEY HITSON #9 SHADY OAKS B5)

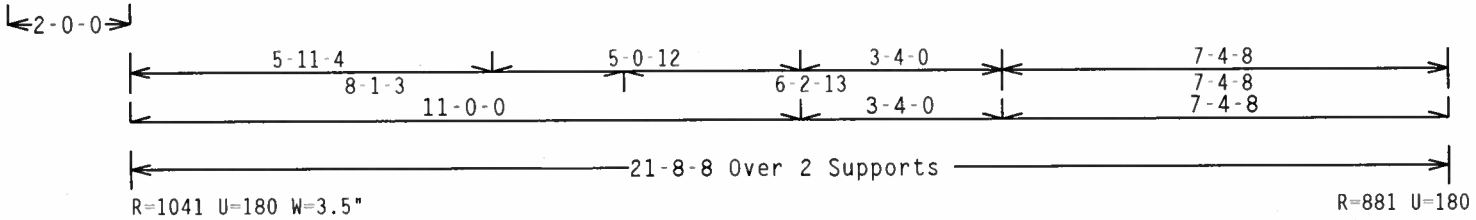
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Deflection meets L/360 live and L/240 total load.

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.

Right end vertical not exposed to wind pressure.




Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.3125"/Ft.

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Dec 19 '05

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R487-- 34226 |
| TC DL | 10.0 PSF | DATE | 12/19/05 |
| BC DL | 10.0 PSF | DRW | HCUSR487 05353058 |
| BC LL | 0.0 PSF | | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- | 19148 |
| DUR.FAC. | 1.25 | | |

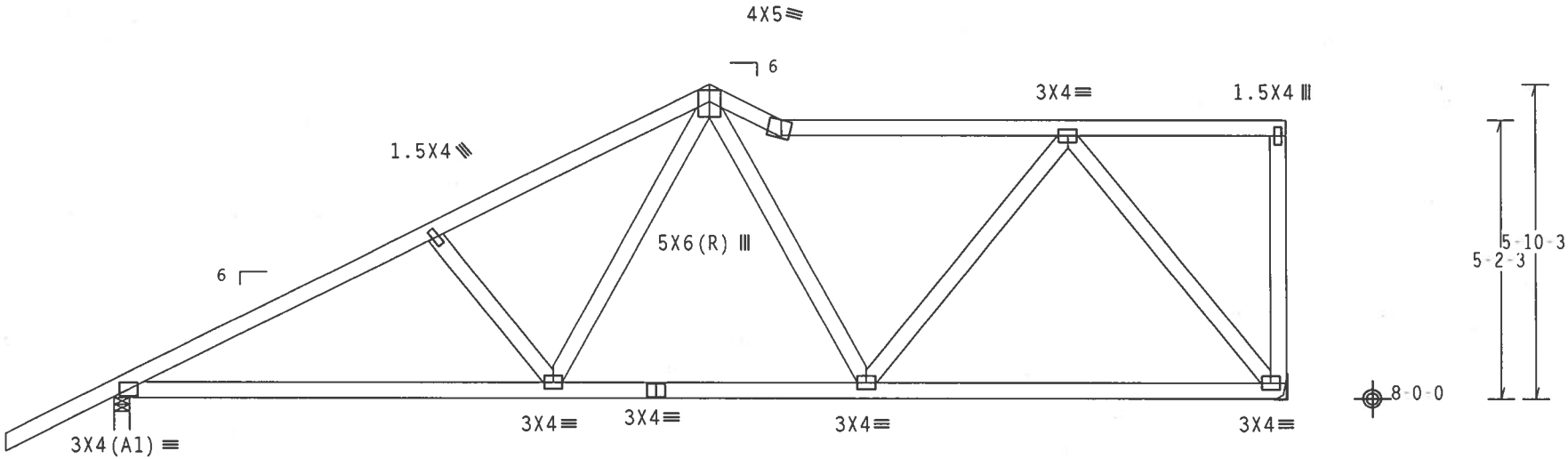
(5-549-SHIRLEY HITSON #9 SHADY OAKS 86)

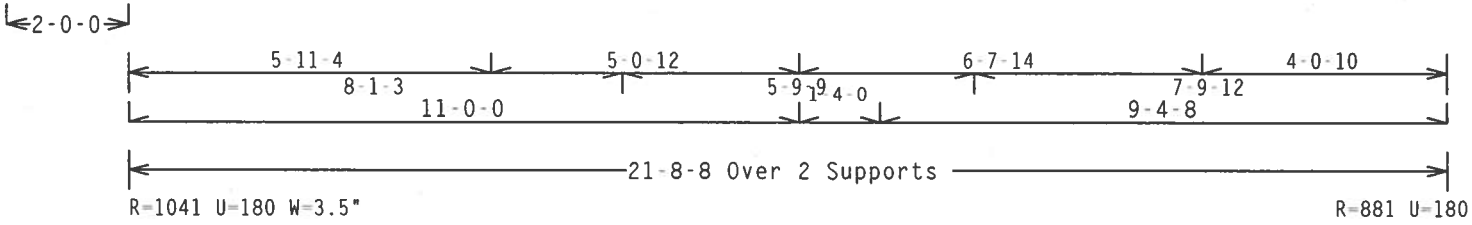
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Deflection meets L/360 live and L/240 total load.

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.

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

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Dec 19 '05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34227 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353059 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 19174 |
| DUR.FAC. | 1.25 | |

(3-549-SHIRLEY HITSON #9 SHADY OAKS C1-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:

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

| | | | | | | |
|---|---|---|---|---|---|---|
| TC - From | 125 PLF | at | -2.00 | to | 125 PLF | at 0.00 |
| TC - From | 128 PLF | at | 0.00 | to | 130 PLF | at 0.33 |
| TC - From | 130 PLF | at | 0.33 | to | 143 PLF | at 5.67 |
| TC - From | 140 PLF | at | 5.67 | to | 141 PLF | at 5.77 |
| TC - From | 171 PLF | at | 5.77 | to | 210 PLF | at 11.00 |
| TC - From | 210 PLF | at | 11.00 | to | 211 PLF | at 11.17 |
| TC - From | 211 PLF | at | 11.17 | to | 210 PLF | at 11.29 |
| TC - From | 180 PLF | at | 11.29 | to | 132 PLF | at 20.89 |
| TC - From | 135 PLF | at | 20.89 | to | 131 PLF | at 21.79 |
| TC - From | 131 PLF | at | 21.79 | to | 128 PLF | at 22.33 |
| TC - From | 125 PLF | at | 22.33 | to | 125 PLF | at 24.33 |
| BC - From | 10 PLF | at | 0.00 | to | 10 PLF | at 22.33 |

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

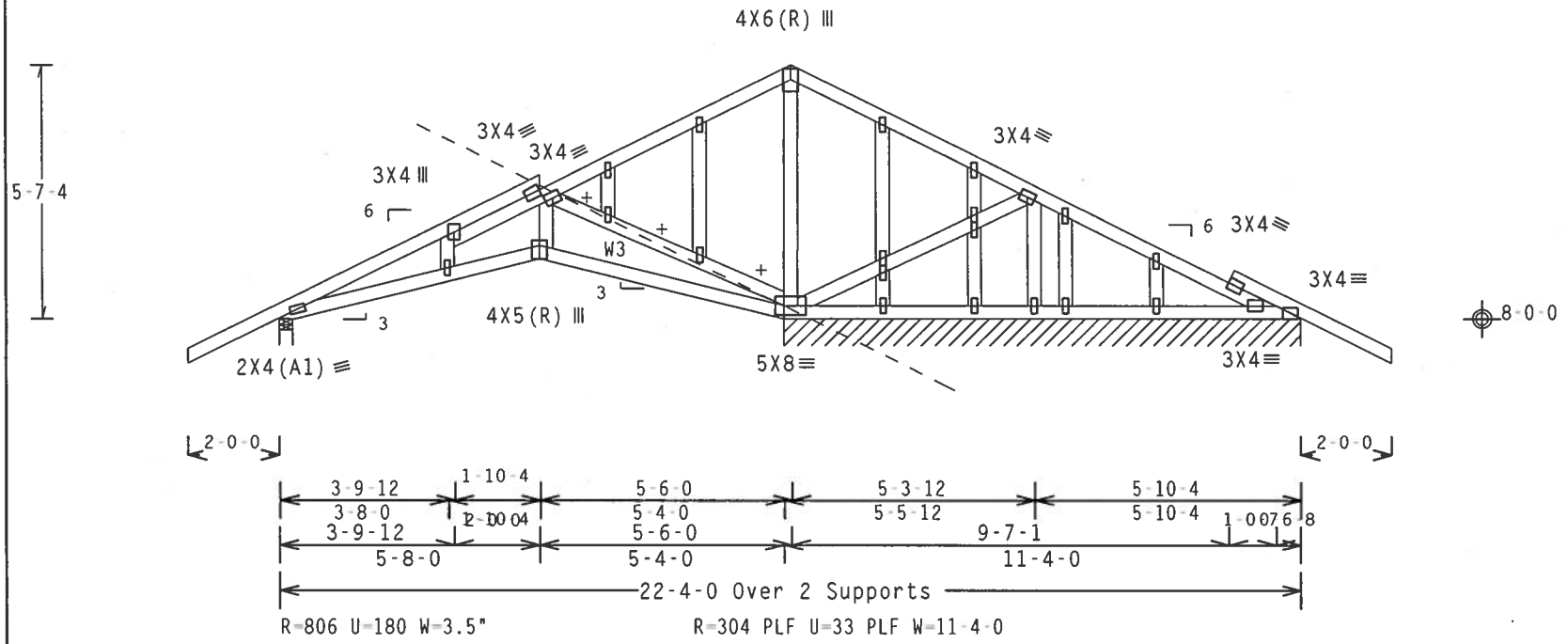
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Deflection meets L/360 live and L/240 total load.

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




Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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Dec 19 05

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R487-- 34228 |
| TC DL | 10.0 PSF | DATE | 12/19/05 |
| BC DL | 10.0 PSF | DRW | HCUSR487 05353064 |
| BC LL | 0.0 PSF | HC-ENG | DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- | 19126 REV |
| DUR.FAC. | 1.25 | | |

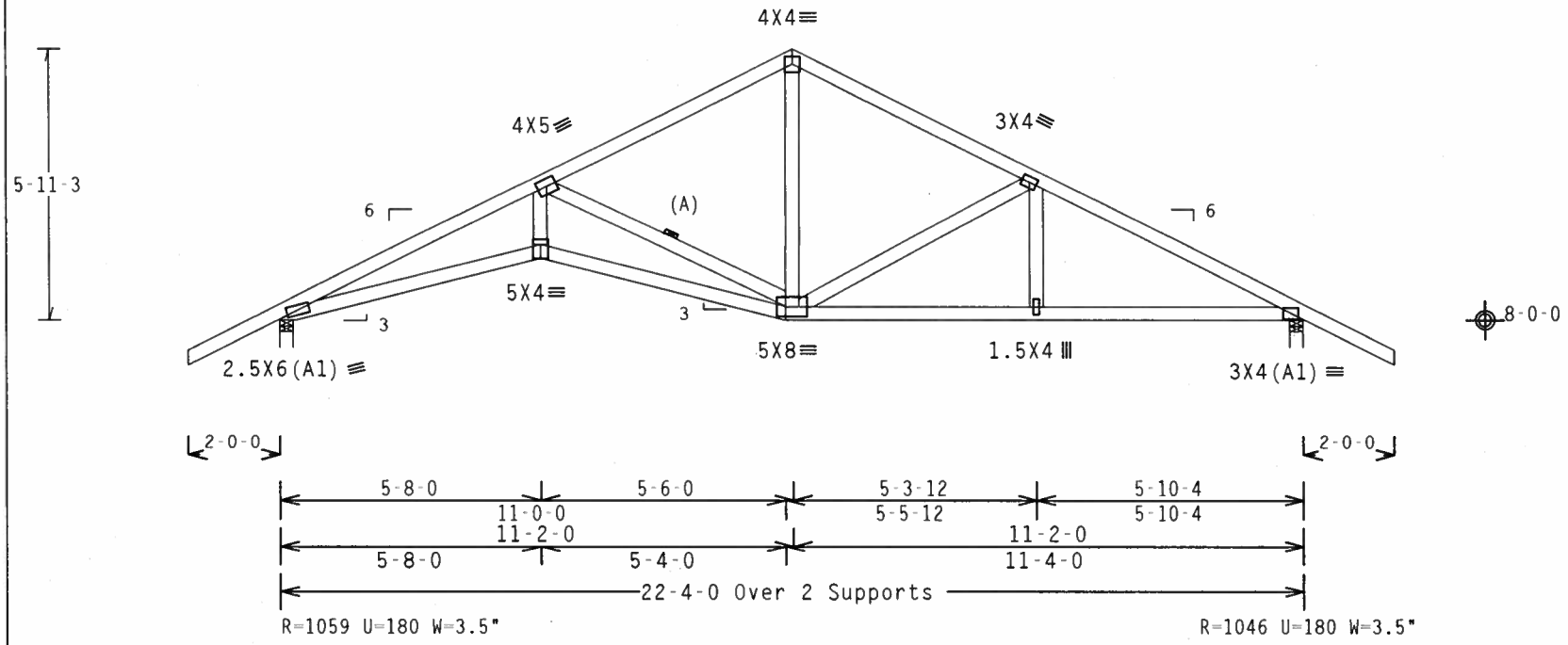
(5-549 SHIRLEY HITSON #9 SHADY OAKS C2)

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

(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.

Deflection meets L/360 live and L/240 total load.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.1 [illegible]Y:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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PROFESSIONAL ENGINEER
Dec 19 '05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34229 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353049 |
| BC LL | 0.0 PSF | HC-ENG DF/AF * |
| TOT.LD. | 40.0 PSF | SEQN- 19115 |
| DUR.FAC. | 1.25 | |

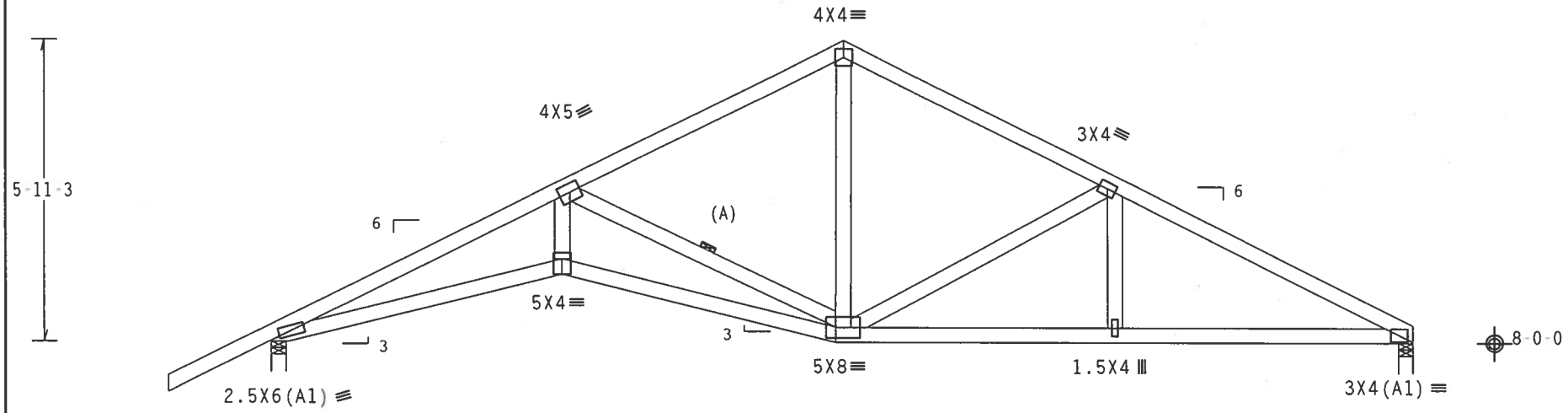
(J 549 SHIRLEY HITSON #9 SHADY OAKS C3)

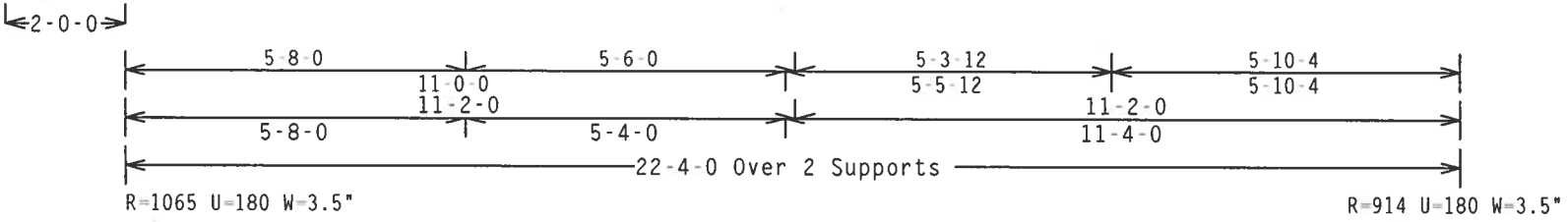
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(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.

Deflection meets L/360 live and L/240 total load.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:4 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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Dec 19 '05

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R487-- 34230 |
| TC DL | 10.0 PSF | DATE | 12/19/05 |
| BC DL | 10.0 PSF | DRW | HCUSR487 05353050 |
| BC LL | 0.0 PSF | HC-ENG | DF/AF * |
| TOT.LD. | 40.0 PSF | SEQN- | 19109 |
| DUR.FAC. | 1.25 | | |

(5-549-SHIRLEY HITSON #9 SHADY OAKS C4G)

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

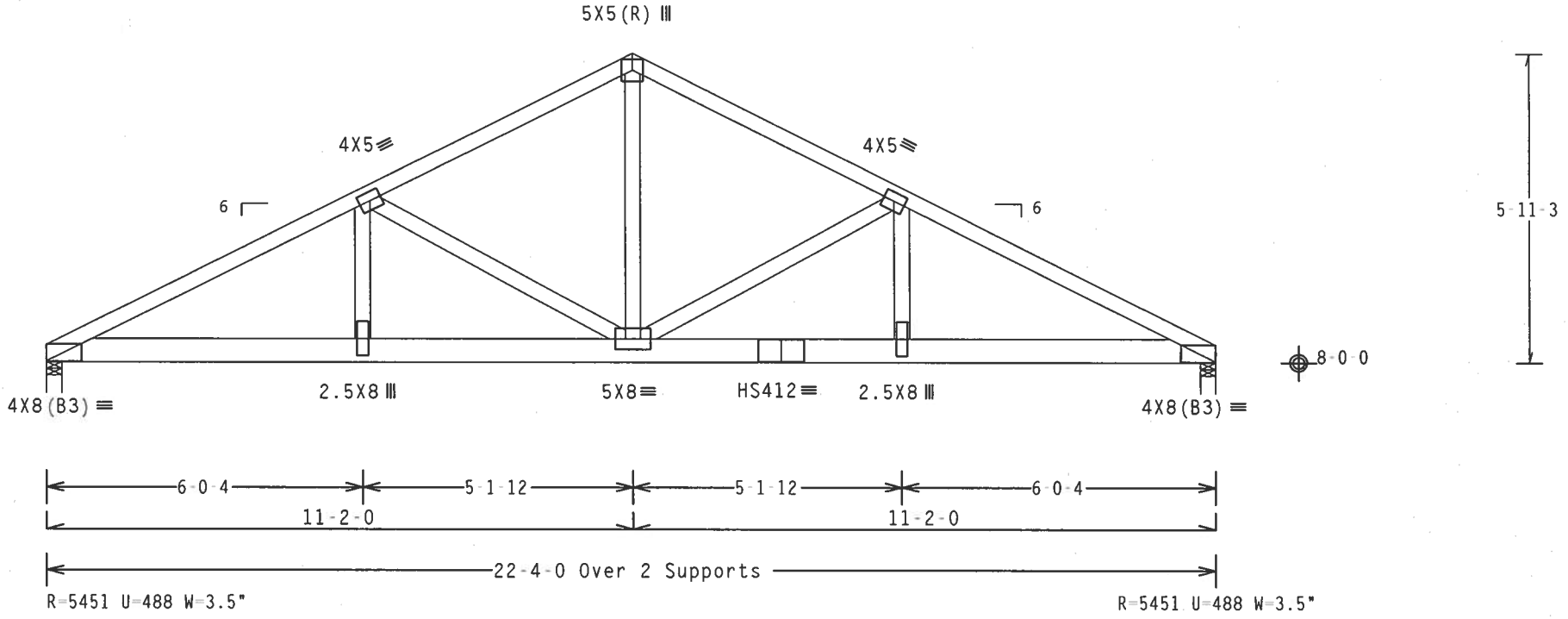
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT I, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Girder supports 22-0-0 span to BC one face and 2-0-0 span to TC/BC split opposite face.

## 2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Common_(0.148"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Deflection meets L/360 live and L/240 total load.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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Dec 19, 05

| | | |
|---|---|---|
| TC LL | 20.0 PSF | REF R487-- 34231 |
| TC DL | 10.0 PSF | DATE 12/19/05 |
| BC DL | 10.0 PSF | DRW HCUSR487 05353060 |
| BC LL | 0.0 PSF | HC-ENG DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- 67240 |
| DUR.FAC. | 1.25 | |

(5-549-SHIRLEY HITSON - #9 SHADY OAKS - D1-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TC | From | 62 PLF | at | -2.00 | to | 62 PLF | at 2.00 |
| TC | From | 60 PLF | at | 2.00 | to | 60 PLF | at 12.67 |
| TC | From | 62 PLF | at | 12.67 | to | 62 PLF | at 16.67 |
| BC | From | 4 PLF | at | -2.00 | to | 4 PLF | at 0.00 |
| BC | From | 20 PLF | at | 0.00 | to | 20 PLF | at 14.67 |
| BC | From | 4 PLF | at | 14.67 | to | 4 PLF | at 16.67 |

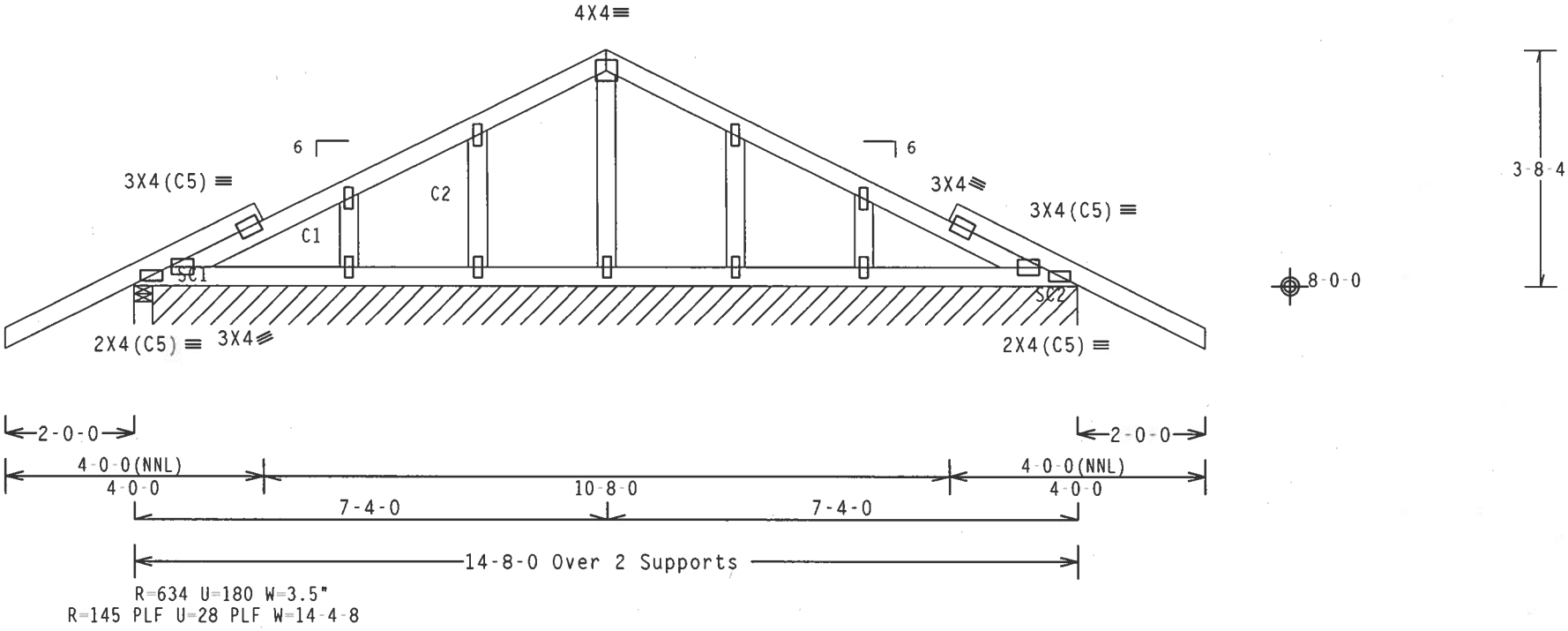
Deflection meets L/360 live and L/240 total load.

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

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.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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




Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.11 TY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive

**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

**IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, 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. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/S/K) ASTM A653 GRADE 40/60 (W. K/H.S) 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

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 19 '05

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R487-- 34232 |
| TC DL | 10.0 PSF | DATE | 12/19/05 |
| BC DL | 10.0 PSF | DRW | HCUSR487 05353061 |
| BC LL | 0.0 PSF | HC-ENG | DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- | 67233 |
| DUR.FAC. | 1.25 | | |

(5 549 SHIRLEY HITSON #9 SHADY OAKS D2G)

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

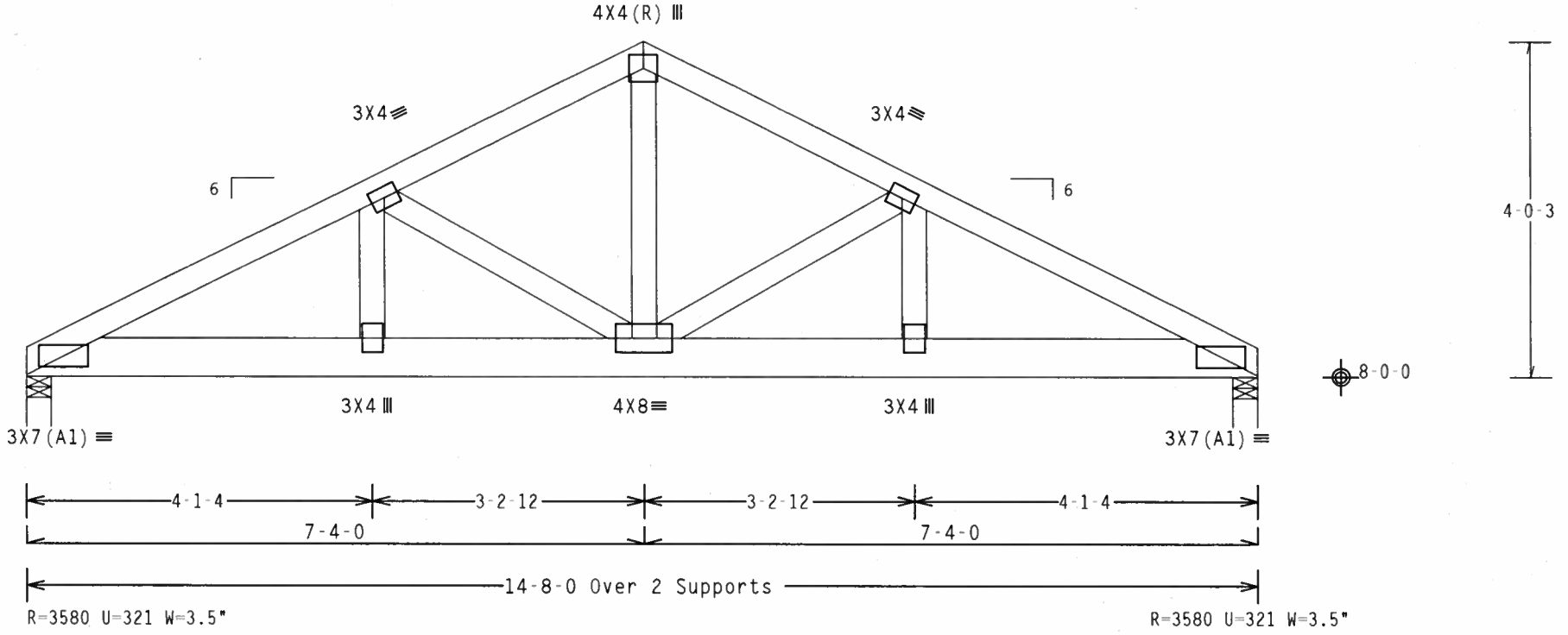
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT I, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Girder supports 22-0-0 span to BC one face and 2-0-0 span to TC/BC split opposite face.

## 2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Common_(0.148"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 9.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Deflection meets L/360 live and L/240 total load.




Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.11 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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1950 Marley Drive

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ARTHUR R. FISHER LICENSE No.69687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 19 '05

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R487-- 34233 |
| TC DL | 10.0 PSF | DATE | 12/19/05 |
| BC DL | 10.0 PSF | DRW | HCUSR487 05353065 |
| BC LL | 0.0 PSF | HC-ENG | DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- | 57227 |
| DUR.FAC. | 1.25 | | |

(5-549-SHIRLEY HITSON - #9 - SHADY OAKS - K1-GE)

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

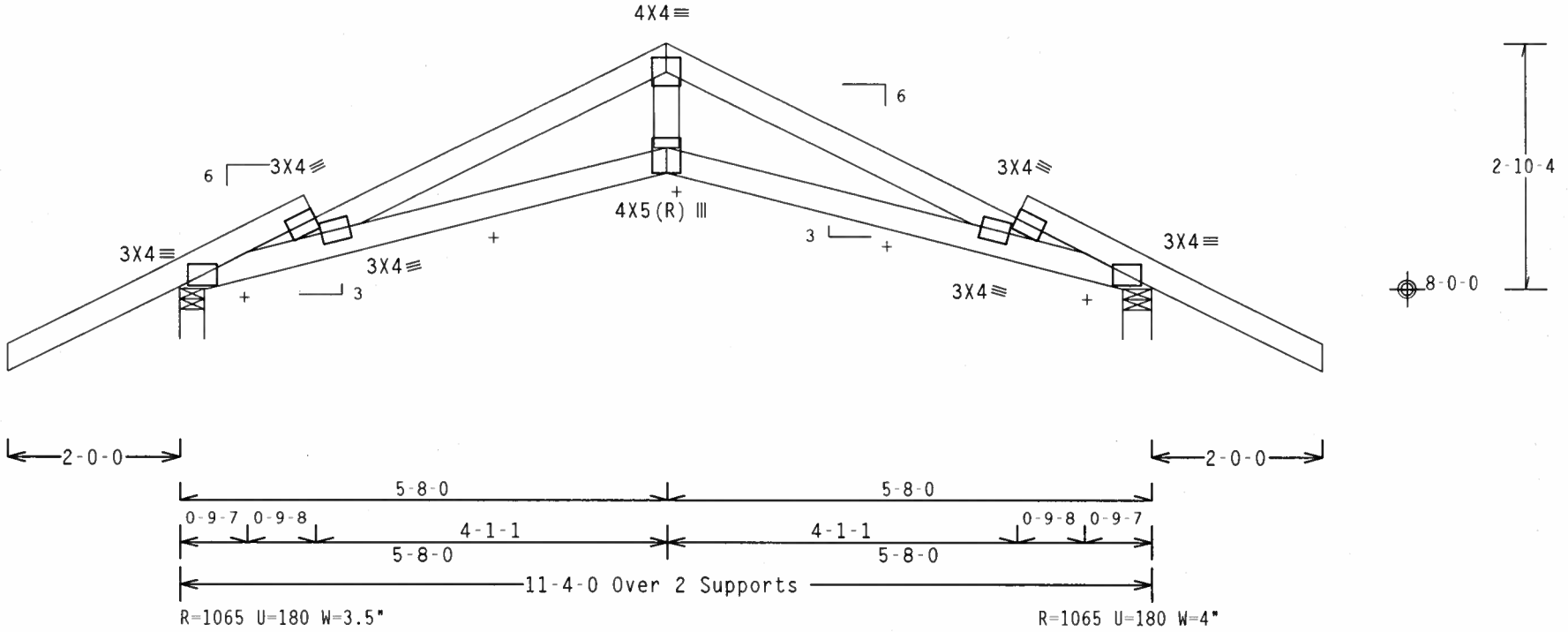
Deflection meets L/360 live and L/240 total load.

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

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.

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

See DWGS A10015EE0405, GBLLETIN0405, & GBLBRSTD0405 for more requirements.




Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1 03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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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Dec 19 '05

| | | | |
|---|---|---|---|
| TC LL | 20.0 PSF | REF | R487-- 34234 |
| TC DL | 10.0 PSF | DATE | 12/19/05 |
| BC DL | 10.0 PSF | DRW | HCUSR487 05353062 |
| BC LL | 0.0 PSF | HC-ENG | DF/AF |
| TOT.LD. | 40.0 PSF | SEQN- | 19098 REV |
| DUR.FAC. | 1.25 | | |

# 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.

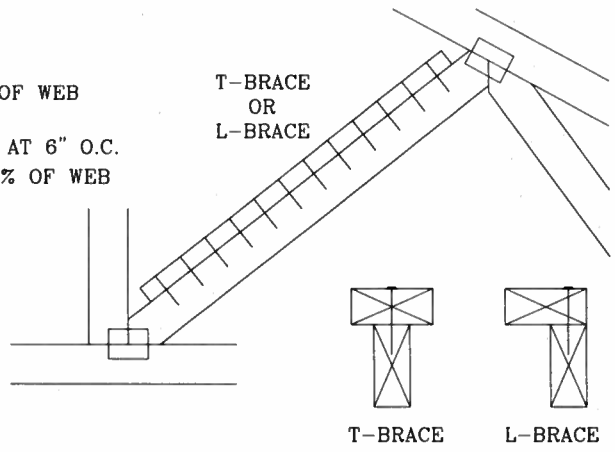
(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

## T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE

ATTACH WITH 16d NAILS AT 6" O.C.

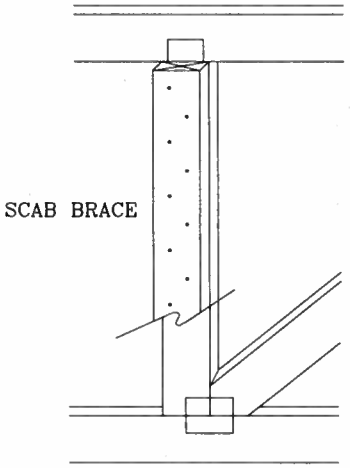
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH




## SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB. NO MORE THAN (1) SCAB PER FACE.

ATTACH WITH 10d OR .128"x3" GUN NAILS AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH




THIS DRAWING REPLACES DRAWING 579,640

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA



ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec

| | | | |
|---|---|---|---|
| TC LL | PSF | REF | CLB SUBST. |
| TC DL | PSF | DATE | 11/26/03 |
| BC DL | PSF | DRWG | BRCLBSUB1103 |
| BC LL | PSF | -ENG | MLH/KAR |
| TOT. LD. | PSF | | |
| DUR. FAC. | | | |

(Porches)

# NOTICE OF INSPECTION AND/OR TREATMENT

# 24417

Date of Inspection
5/24/06

Date of Treatment
Termidor

Pesticide Used
Sub Termites

Wood-Destroying Organisms Treated

**Notice**
It is a violation of Florida State Law (Chap. 482.226) for anyone other than the property owner to remove this notice.

Address:
**Pestmaster Services of Lake City**
879 S.W. Arlington Blvd., Suite 106 • Lake City, FL 32025