DATE 01/24/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026661

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER VINCENT & CHRISTY TONNETTI PHONE 754-2121

ADDRESS 394 NW CARR COURT LAKE CITY FL 32055

CONTRACTOR ROGER WHIDDON PHONE 867-0812

LOCATION OF PROPERTY 90W, TR ON LAKE JEFFERY RD, TL ON NASH, TR ON CARR CT, 4TH LOT ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 153150.00

HEATED FLOOR AREA 1475.00 TOTAL AREA 3063.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 28

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

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

PARCEL ID 17-3S-16-02162-006 SUBDIVISION ____

LOT ____ BLOCK ____ PHASE ____ UNIT ____ TOTAL ACRES 5.15

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CRC1328025	

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
EXISTING	08-0029	BK	JH	N

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD
MH TO BE REMOVED 45 DAYS AFTER CO IS ISSUED

Check # or Cash 2640

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 $ 770.00 CERTIFICATION FEE $ 15.31 SURCHARGE FEE $ 15.31

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

FLOOD DEVELOPMENT FEE $ ____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ ____ **TOTAL FEE** 875.62

INSPECTORS OFFICE ____ CLERKS OFFICE CH

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

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

26661

Permit Number:_____

Tax Folio Number: **02162-006**

State of: **Florida**
County of: **Columbia**

File Number: **08-051**

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By Hann Teagle
Deputy Clerk
Date 02-04-2008

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

NOTICE OF COMMENCEMENT

Inst:200812002186 Date:2/4/2008 Time:3:42 PM
AT DC,P.DeWitt Cason,Columbia County Page 1 of 2

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.

1. Description of Property:

   See exhibit "A" attached hereto and by this reference made a part hereof.

2. General Description of Improvements: Single Family Dwelling

3. Owner Information:
   a. Name and Address: Vincent M. Tonetti and Christy M. Tonetti, husband and wife
      394 Carr Court, Lake City, Florida 32055

   b. Interest in property: Fee Simple

   c. Names and address of fee simple title holder (if other than owner):

4. Contractor: Whiddon Construction Company
   582 NW Brook Loop, Lake City, Florida 32055

5. Surety: N/A

6. Lender: First Federal Savings Bank of Florida, 4705 West U. S. Highway 90
Post Office Box 2029 (32056), Lake City, Florida 32055

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

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

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

Vincent M. Tonetti

Christy M. Tonetti

Christy M Tonetti

Sworn to and subscribed before me January 30, 2008 by Vicent M. Tonetti and Christy M. Tonetti, husband and wife who is personally known to me or who did provide drivers license as identification.

Megan M. Marable
Notary Public
My Commission Expires:_____

MEGAN M. MARABLE
MY COMMISSION # DD 412865
EXPIRES: March 30, 2009
Bonded Thru Notary Public Underwriters

Exhibit "A"

TOWNSHIP 3 SOUTH, RANGE 16 EAST

SECTION 17: Commence at the NW Corner of the E 1/2 of said Section 17, Township 3 South, Range 16 East and Run N 89° 59' 09" E, 171.12 feet; Thence S 00° 07' 14" E, 1345.36 feet; Thence S 01° 03' 18" W, 645.13 feet; thence S 00° 02' 27" E, 37.17 feet; Thence S 00° 02' 27" E, 622.27 feet; Thence S 01° 45' 36" E, 354.72 feet; Thence S 01° 52' 53" E 265.72 feet; to the Point of Beginning; Thence S 01° 52' 53" E 55.11 feet; Thence S 03° 22' 29" E 335.43 feet, Thence S 89° 39' 27" E 386.55 feet, Thence run N 01° 40' 59" W, 119.19 feet, Thence run S 89° 06' 08" E, 184.61 feet, Thence run N 01° 41' 02" W, 390.00 feet, Thence run N 89° 39' 27" W, 581.19 feet to the Point of Beginning.
IN COLUMBIA COUNTY, FLORIDA.

875.62 CK# 2640

Columbia County Building Permit Application

For Office Use Only Application # 0801-62 Date Received 1-14-08 By LH Permit # 26661

Zoning Official BLK Date 23 01 08 Flood Zone X FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE 1ft above Rd River N/A Plans Examiner OKSIH Date 1-18-08

Comments NOC EH Deed or PA Site Plan State Road Info Parent Parcel # MH to be Permd 45 days after CO is issued.

Dev Permit # Existing well In Floodway Letter of Authorization from Contractor

Unincorporated area Incorporated area Town of Fort White Town of Fort White Compliance letter

Fax 752-2282

Name Authorized Person Signing Permit Linda or Melanie Roder Phone 752-2281

Address 387 SW Kempt Lake City FL 32024

Owners Name Vincent + Christy Tonnetti Phone 754-2121

911 Address 394 NW Carr CT Lake City FL 32055

Contractors Name Roger Whiddon Phone 386-867-0812

Address 582 NW Brooke Look Lake City FL 32055

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Roger Whiddon

Mortgage Lenders Name & Address First federal

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

Property ID Number 17-35-16-02162-006 Estimated Cost of Construction 175K

Subdivision Name Lot Block Unit Phase

Driving Directions Hwy 90 West, R on Lake Jeffery Rd, L on Nash, R on Carr court 4th Lot on L before Blackberry Farms

Number of Existing Dwellings on Property mh will be moved

Construction of Single family dwelling Total Acreage 5.015 Lot Size 5.15

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 28'-4"

Actual Distance of Structure from Property Lines - Front ~~200'~~ Side 147' Side ~~210'~~ Rear ~~333'~~

Number of Stories 2 Heated Floor Area 1475 Total ~~Heated~~ Floor Area ~~1475~~ 3,063 Roof Pitch 6-12

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

Columbia County Building Permit Application

Application # _____

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

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

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

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

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

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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

X _____

Owners Signature

Affirmed under penalty of perjury to by the Owner and subscribed before me this 14 **day of** Jan **20**08

Personally known____ **or Produced identification** FL DRIVER'S LIC # T 530873763300

_____ **SEAL:**

State of Florida Notary Signature (For the Owner)

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

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

X _____

Contractor's Signature (Permitee)

Contractor's License Number CRC1328025

Columbia County
Competency Card Number_____

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 14 **day of** Jan **20**08

Personally known____ **or Produced identification** ✓

_____ **SEAL:**

#0638 P.003 /003 CANON 12/28/2007 17:27 3867522282

0801-62

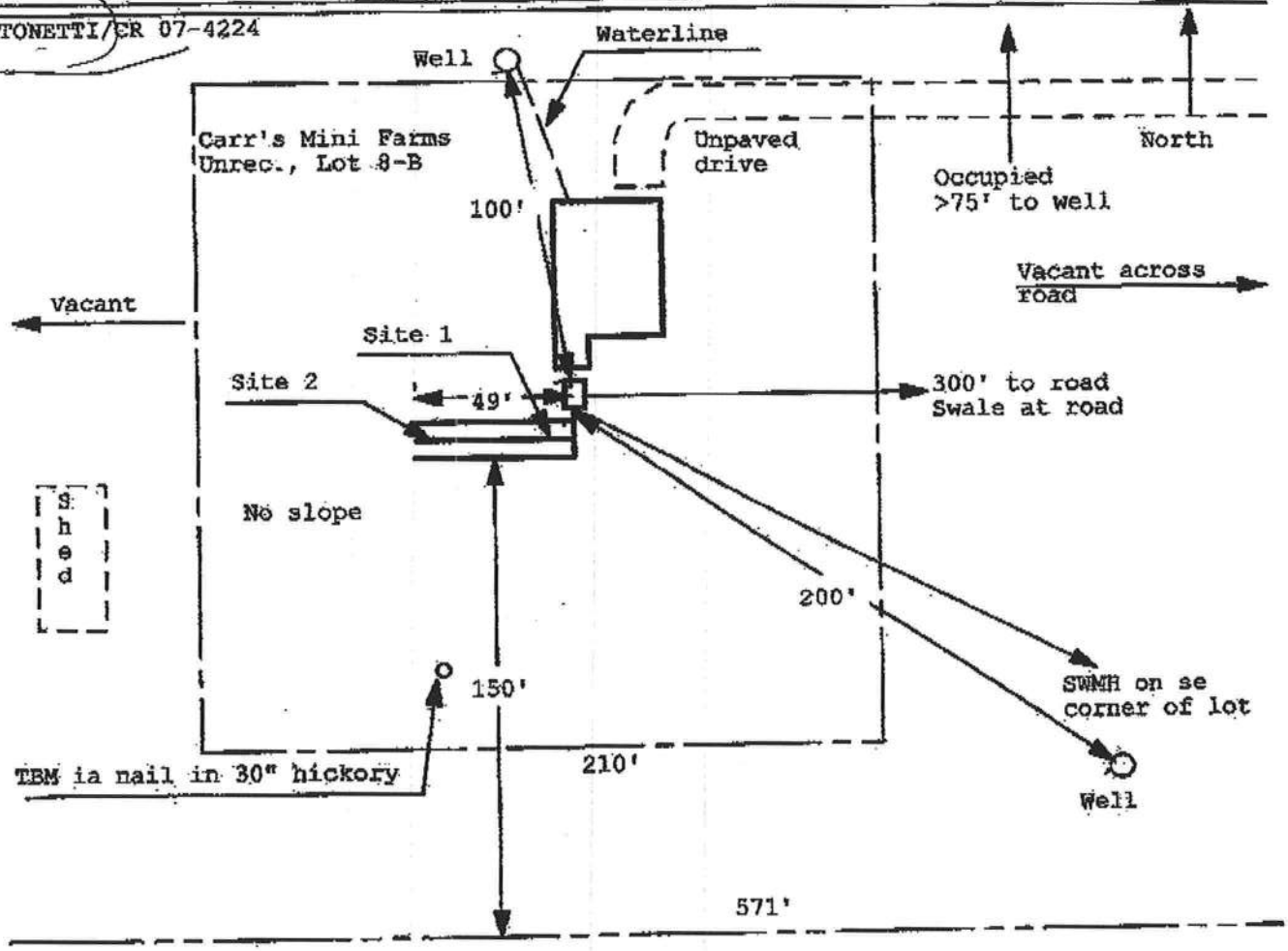
08-0029-N

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

Permit Application Number: _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

TONETTI/ER 07-4224



1 inch = 50 feet

Site Plan Submitted By _____ Date 1/4/08

Plan Approved ✓ Not Approved ____ Date 1-14-08

By _____ Columbia CPHU

Notes: _____

Notice of Authorization

I Roger Whidden, do hereby authorize Linda Roder or Melanie Roder,

to be my representative and act on my behaf in all aspects of applying for any

building permit to be located in Columbia county.

~~Any~~ homeowner and legal description Vincent & Christy Tonetti
17-35-16-02162-006

XRWhidden

Contractor's signature

12/30/07

Date

Sworn and subscribed before me this 14 day of Jan., 2008

Linda Roder

Notary Public

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

My commision expires: _____
Commision No. _____
Personally known _____
Produced ID (Type): ✓

This Instrument Prepared by & return to:
Name: *KIM WATSON, an employee of TITLE OFFICES, LLC*
Address: *1089 SW MAIN BLVD. LAKE CITY, FLORIDA 32025*
File No. 05Y-02147KW

Inst:200500666 Date:03/22/2005 Time:15:15
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:1041 P:735

Parcel I.D. [redacted]

SPACE ABOVE THIS LINE FOR PROCESSING DATA *SPACE ABOVE THIS LINE FOR RECORDING DATA*

THIS WARRANTY DEED *Made the 15th day of March, A.D. 2005, by* ***VINCENT M. TONETTI*** *and* ***CHRISTY TONETTI, HIS WIFE,*** *and* ***PHILLIP A. YOST,*** Single *, hereinafter called the grantor, to* ***VINCENT M. TONETTI*** *and* ***CHRISTY TONETTI, HIS WIFE,*** *whose post office address is* ***394 NW CARR COURT, LAKE CITY, FLORIDA 32055,*** *hereinafter called the grantees:*

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

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

TOWNSHIP 3 SOUTH, RANGE 16 EAST

SECTION 17: COMMENCE AT THE NW CORNER OF THE EAST HALF OF SAID SECTION 17, AND RUN N 89°59'09" E, 171.12 FEET; THENCE S 0°07'14" E, 1345.36 FEET; THENCE S 1°03'18" W, 645.13 FEET; THENCE S 0°02'27" E, 37.17 FEET; THENCE S 0°02'27" E, 622.27 FEET; THENCE S 01°45'36" E, 354.72 FEET; THENCE S 01°52'53" E, 321.22 FEET; THENCE S 03°22'29" E, 335.43 FEET TO THE POINT OF BEGINNING; THENCE S 89°39'27" E, 571.09 FEET; THENCE N 01°41'02" W, 390.00 FEET; THENCE N 89°39'27" W, 581.19 FEET; THENCE S 01°52'53" E, 55.11 FEET; THENCE S 03°22'29" E, 335.43 FEET TO THE POINT OF BEGINNING.

ALSO DESCRIBED AS LOT 8-B OF A SURVEY OF A SUBDIVISION IN SECTION 17, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA IN THAT CERTAIN SURVEY PREPARED BY L.L. LEE & ASSOCIATES, INC. FOR LUTHER V. CARR DATED AUGUST 25, 1979.

TOGETHER WITH A 1971 SKYLINE SINGLEWIDE MOBILE HOME, I.D. NO. SF1367E, TITLE NO. 4411976.

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

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

And the grantor hereby covenants with said grantees that he is lawfully seized of said land in fee simple; that he has good right and lawful authority to sell and convey said land, and hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2004.

In Witness Whereof, *the said grantor has signed and sealed these presents, the day and year first above written.*

Signed, sealed and delivered in the presence of:

Martha Bryan
Witness Signature
MARTHA BRYAN
Printed Name

Witness Signature
Kim Watson
Printed Name

VINCENT M. TONETTI ___ *L. S.*
Address:

Christy Tonetti
CHRISTY TONETTI

Phillip A. Yost
PHILLIP A. YOST

STATE OF FLORIDA
COUNTY OF COLUMBIA

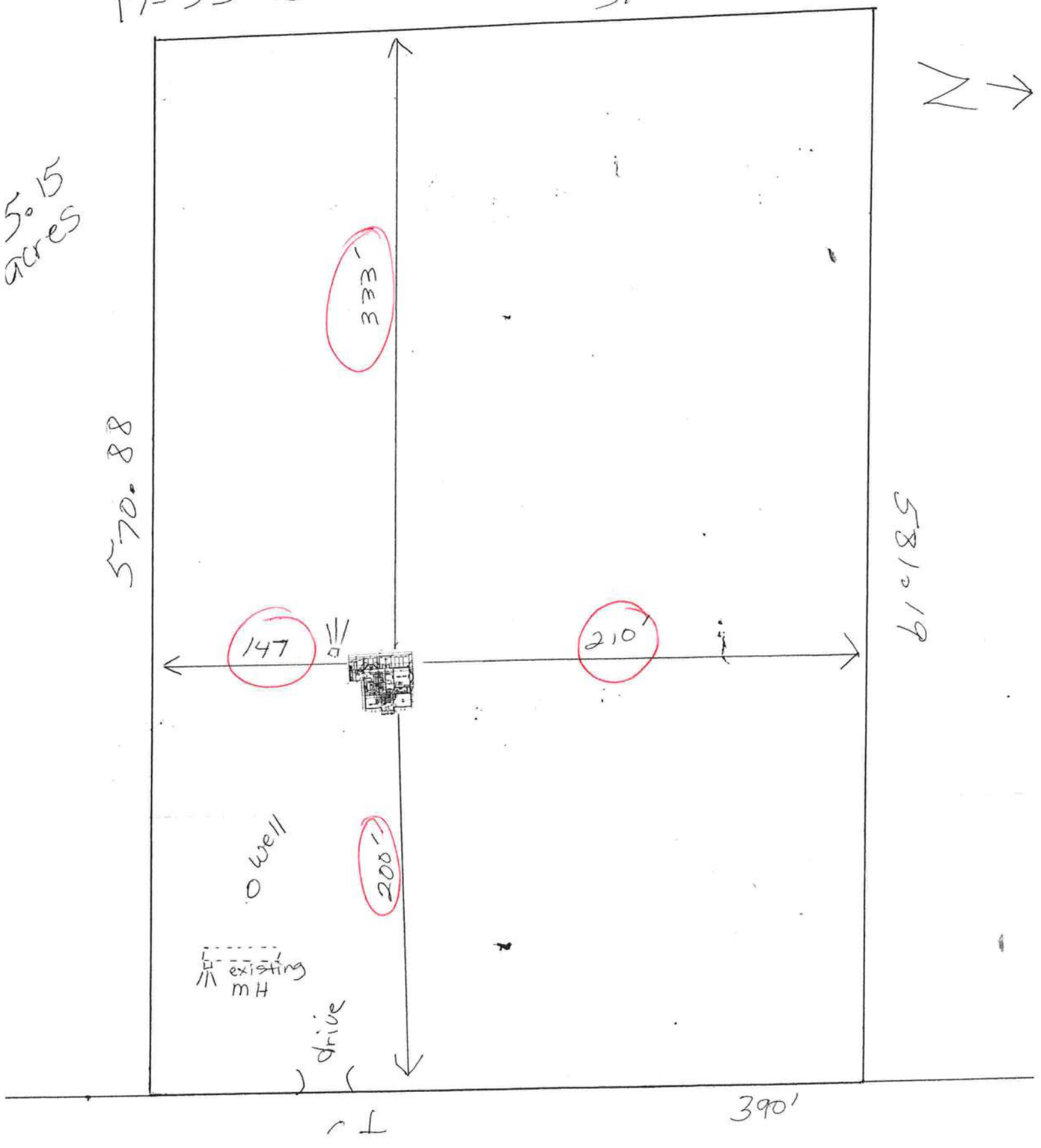
The foregoing instrument was acknowledged before me this 15th day of March, 2005, by VINCENT M. TONETTI and CHRISTY TONETTI, HIS WIFE, and PHILLIP A. YOST, who is known to me or who has produced Dr. License *as identification.*

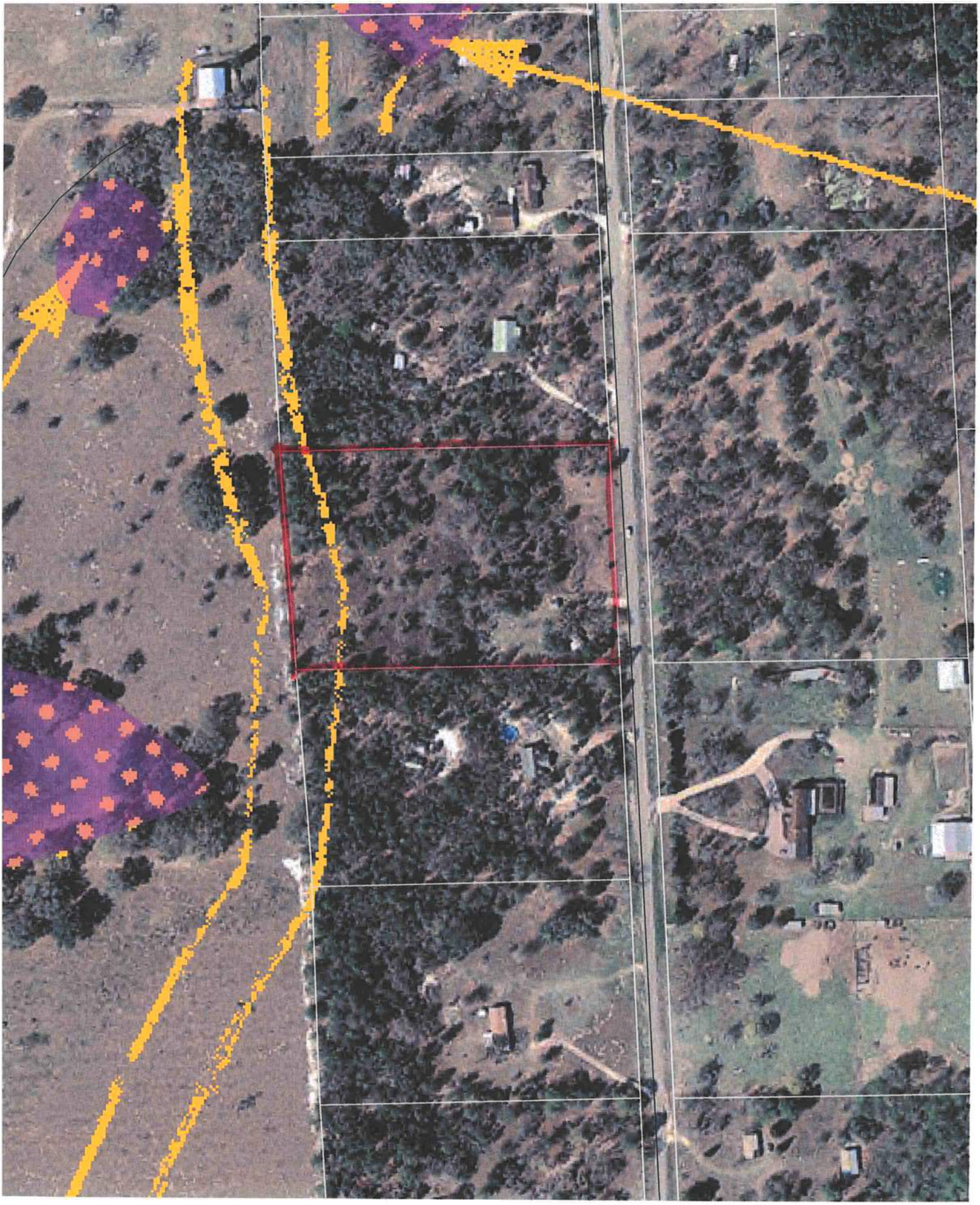
Martha Bryan
Commission # DD232534
Expires August 10, 2007
Bonded Thru Fain - Insurance, Inc 800-385-7019

Notary Public
My commission expires __

Inst:2005006664 Date:03/22/2005 Time:15:15
Doc Stamp-Deed : 0.70
_____DC,P.DeWitt Cason,Columbia County B:1041 P:736

Vincent and Christy Tonetti
17-35-16-02162-006 390.54





0801-62

FORM 600A-2004R

EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Tonetti New Home**	Builder:	**Whiddon Construction Co., Inc**
Address:	**394 NW Carr Ct.**	Permitting Office:	Columbia
City, State:	**Lake City, FL 32055-**	Permit Number:	266661
Owner:	**Vincent and Christy Tonetti**	Jurisdiction Number:	221000
Climate Zone:	**South**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	2475 ft²	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description (Dble, U=0.8) 412.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Tint) 403.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 178.0(p) ft	
b.	Slab-On-Grade Edge Insulation	R=0.0, 144.0(p) ft	
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=11.0, 2384.0 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2475.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 120.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit/Package	Cap: 45.0 kBtu/hr SEER: 13.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 45.0 kBtu/hr HSPF: 7.70	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.95	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	MZ-C, PT, CF,	

Glass/Floor Area: 0.17

Total as-built points: 24887

Total base points: 30334

PASS

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

PREPARED BY: R Whiddon

DATE: 1-11-08

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

OWNER/AGENT: R Whiddon

DATE: 1-11-08

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.

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

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: **394 NW Carr Ct., Lake City, FL, 32055-** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 67798.5			**Summer As-Built Points:**					**73606.2**
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 45000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)					
			73606	1.00	(1.00 x 1.165 x 0.90)	0.260	0.857	17203.9
67798.5	**0.3250**	**22034.5**	**73606.2**	**1.00**	**1.048**	**0.260**	**0.857**	**17203.9**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **394 NW Carr Ct., Lake City, FL, 32055-** 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	2475.0	30.53	13601.0	1.Double,U=0.75,Tint	N	1.3	8.0	54.0	25.66	0.98	1352.0
				2.Double,U=0.75,Tint	N	1.3	3.0	8.0	25.66	0.86	176.0
				3.Double,U=0.75,Tint	N	0.0	0.0	15.0	25.66	1.00	384.0
				4.Double,U=0.75,Tint	W	0.0	0.0	108.0	50.31	1.00	5433.0
				5.Double,U=0.75,Tint	W	0.0	0.0	75.0	50.31	1.00	3772.0
				6.Double,U=0.75,Tint	E	0.0	0.0	135.0	56.10	1.00	7573.0
				7.Double,U=0.75,Tint	E	0.0	0.0	8.0	56.10	1.00	448.0
				8.Double,U=0.75,SHGC=0.4	E	0.0	0.0	9.0	38.35	1.00	345.0
				As-Built Total:				**412.0**			**19483.0**

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	11.0	2384.0	2.70	6436.8
Exterior	2384.0	2.70	6436.8					
Base Total:	**2384.0**		**6436.8**	**As-Built Total:**		**2384.0**		**6436.8**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	1.Exterior Insulated	42.0	6.40	268.8
Exterior	119.6	6.40	765.4	2.Exterior Insulated	42.0	6.40	268.8
				3.Exterior Insulated	35.6	6.40	227.8
Base Total:	**119.6**		**765.4**	**As-Built Total:**	**119.6**		**765.4**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	2475.0	2.80	6930.0	1. Under Attic	30.0	2475.0	2.77 X 1.00	6855.8
Base Total:	**2475.0**		**6930.0**	**As-Built Total:**		**2475.0**		**6855.8**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	322.0(p)	-20.0	-6440.0	1. Slab-On-Grade Edge Insulation	0.0	178.0(p	-20.00	-3560.0
Raised	0.0	0.00	0.0	2. Slab-On-Grade Edge Insulation	0.0	144.0(p	-20.00	-2880.0
Base Total:			**-6440.0**	**As-Built Total:**		**322.0**		**-6440.0**

INFILTRATION	Area X	BSPM	= Points	Area X	SPM	= Points
	2475.0	18.79	46505.3	2475.0	18.79	46505.3

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **394 NW Carr Ct., Lake City, FL, 32055-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM	X WOF	= Points	
.18	2475.0	3.60	1604.0	1.Double,U=0.75,Tint	N	1.3	8.0	54.0	3.90	1.00	209.0	
				2.Double,U=0.75,Tint	N	1.3	3.0	8.0	3.90	0.98	30.0	
				3.Double,U=0.75,Tint	N	0.0	0.0	15.0	3.90	1.00	58.0	
				4.Double,U=0.75,Tint	W	0.0	0.0	108.0	3.58	1.00	386.0	
				5.Double,U=0.75,Tint	W	0.0	0.0	75.0	3.58	1.00	268.0	
				6.Double,U=0.75,Tint	E	0.0	0.0	135.0	3.01	1.00	406.0	
				7.Double,U=0.75,Tint	E	0.0	0.0	8.0	3.01	1.00	24.0	
				8.Double,U=0.75,SHGC=0.4	E	0.0	0.0	9.0	3.36	1.00	30.0	
				As-Built Total:				**412.0**			**1411.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM	=	Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			11.0	2384.0	0.60		1430.4	
Exterior	2384.0	0.60	1430.4									
Base Total:	**2384.0**		**1430.4**	**As-Built Total:**				**2384.0**			**1430.4**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM	=	Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				42.0	1.80		75.6	
Exterior	119.6	1.80	215.3	2.Exterior Insulated				42.0	1.80		75.6	
				3.Exterior Insulated				35.6	1.80		64.1	
Base Total:	**119.6**		**215.3**	**As-Built Total:**				**119.6**			**215.3**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM	=	Points	
Under Attic	2475.0	0.10	247.5	1. Under Attic			30.0	2475.0	0.10 X 1.00		247.5	
Base Total:	**2475.0**		**247.5**	**As-Built Total:**				**2475.0**			**247.5**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM	=	Points	
Slab	322.0(p)	-2.1	-676.2	1. Slab-On-Grade Edge Insulation			0.0	178.0(p	-2.10		-373.8	
Raised	0.0	0.00	0.0	2. Slab-On-Grade Edge Insulation			0.0	144.0(p	-2.10		-302.4	
Base Total:			**-676.2**	**As-Built Total:**				**322.0**			**-676.2**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM	=	Points	
	2475.0	-0.06	-148.5					2475.0	-0.06		-148.5	

EnergyGauge® DCA Form 600A-2004R EnergyGauge®/FlaRES 2004R FLRCPB v4.5.2

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **394 NW Carr Ct., Lake City, FL, 32055-** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**2672.5**	**Winter As-Built Points:**					**2479.5**
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 45000 btuh ,EFF(7.7) Ducts:Con(S),Con(R),Int(AH),R6.0					
			2479.5	1.000	(1.000 x 1.137 x 0.91)	0.443	0.950	1079.3
2672.5	**0.5540**	**1480.6**	**2479.5**	**1.00**	**1.035**	**0.443**	**0.950**	**1079.3**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **394 NW Carr Ct., Lake City, FL, 32055-** 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	2273.00	6819.0	40.0	0.95	3	1.00	2201.22	1.00	6603.7	
			As-Built Total:						**6603.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
22035	**1481**	**6819**	**30334**	**17204**	**1079**	**6604**	**24887**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **394 NW Carr Ct., Lake City, FL, 32055-** 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 circui 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* = 89.2

The higher the score, the more efficient the home.

Vincent and Christy Tonetti, 394 NW Carr Ct., Lake City, FL, 32055-

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	2475 ft²	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT) 7a.	Description Area (Dble, U=0.8) 412.0 ft²	
	b. SHGC: (or Clear or Tint DEFAULT) 7b.	(Tint) 403.0 ft²	
8.	Floor types		
	a. Slab-On-Grade Edge Insulation	R=0.0, 178.0(p) ft	
	b. Slab-On-Grade Edge Insulation	R=0.0, 144.0(p) ft	
	c. N/A		
9.	Wall types		
	a. Frame, Wood, Exterior	R=11.0, 2384.0 ft²	
	b. N/A		
	c. N/A		
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=30.0, 2475.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts		
	a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 120.0 ft	
	b. N/A		
12.	Cooling systems		
	a. Central Unit/Package	Cap: 45.0 kBtu/hr SEER: 13.00	
	b. N/A		
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump	Cap: 45.0 kBtu/hr HSPF: 7.70	
	b. N/A		
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 40.0 gallons EF: 0.95	
	b. N/A		
	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	MZ-C, PT, CF,	

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: RWTudder Date: 1-11-08

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.

Freeman Design Group inc

Engineers • Planners

161 N.W. Madison St. Suite 102
Lake City, Florida 32055
Tel: 386-758-4209
Fax: 386-758-4290

January 31, 2008

Columbia County Building and Zoning

RE: Vincent Tonetti Residence **Property ID# 02162-006**

To whom it may concern:

I have reviewed the Flood Insurance Rate Map and have determined the property is not located in a flood zone. I have performed a site evaluation of the existing area. I certify that placing the finished floor a minimum of 18" above finished grade is adequate to prevent flood and water damage. Grade the perimeter so that all runoff drains away from the building.

Sincerely,

William H. Freeman

William H. Freeman, P.E. #56001
President
Cert. Of Authorization #00008701

ASPEN
PEST CONTROL, INC.

26661

Lake City (386) 755-3611
Gainesville (352) 494-5751
Fax (386) 755-3885
Toll Free 1-800-816-4707

Notice of Intent for Preventative Treatment for Termites

(as required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.
(386) 755-3611
State License # - JB109476
State Certification # - JF104376

Tonetti Residence - 394 NW Carr Ct. - Lake City, FL. 32055
Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate
(Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood
Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8

Authorized Signature

2/22/08
Date

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

26661

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: P.O. Box 1796 City Lake City State FL Zip [illegible]
Company Business License No. JB102478 Company Phone No. [illegible]
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Bryan Whitten Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 394 NW Tori Ct Lake City FL

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside Inside Type of Fill

Section 4: Treatment Information

Date(s) of Treatment(s) 5-1-04
Brand Name of Product(s) Used Bor-Bon
EPA Registration No. 72364-10
Approximate Final Mix Solution % 2%
Approximate Size of Treatment Area: Sq. ft. 1400 Linear ft. Linear ft. of Masonry Voids
Approximate Total Gallons of Solution Applied 4
Was treatment completed on exterior? ☒ Yes ☐ No
Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments Treated all wall on 1st Floor

Name of Applicator(s) Steve Brannen Certification No. (if required by State law) JP102478

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Date 5-1-04

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 17-3S-16-02162-006 **Building permit No.** 000026661

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

Permit Holder ROGER WHIDDON **Waste:**

Owner of Building VINCENT & CHRISTY TONNETTI **Total:** 0.00

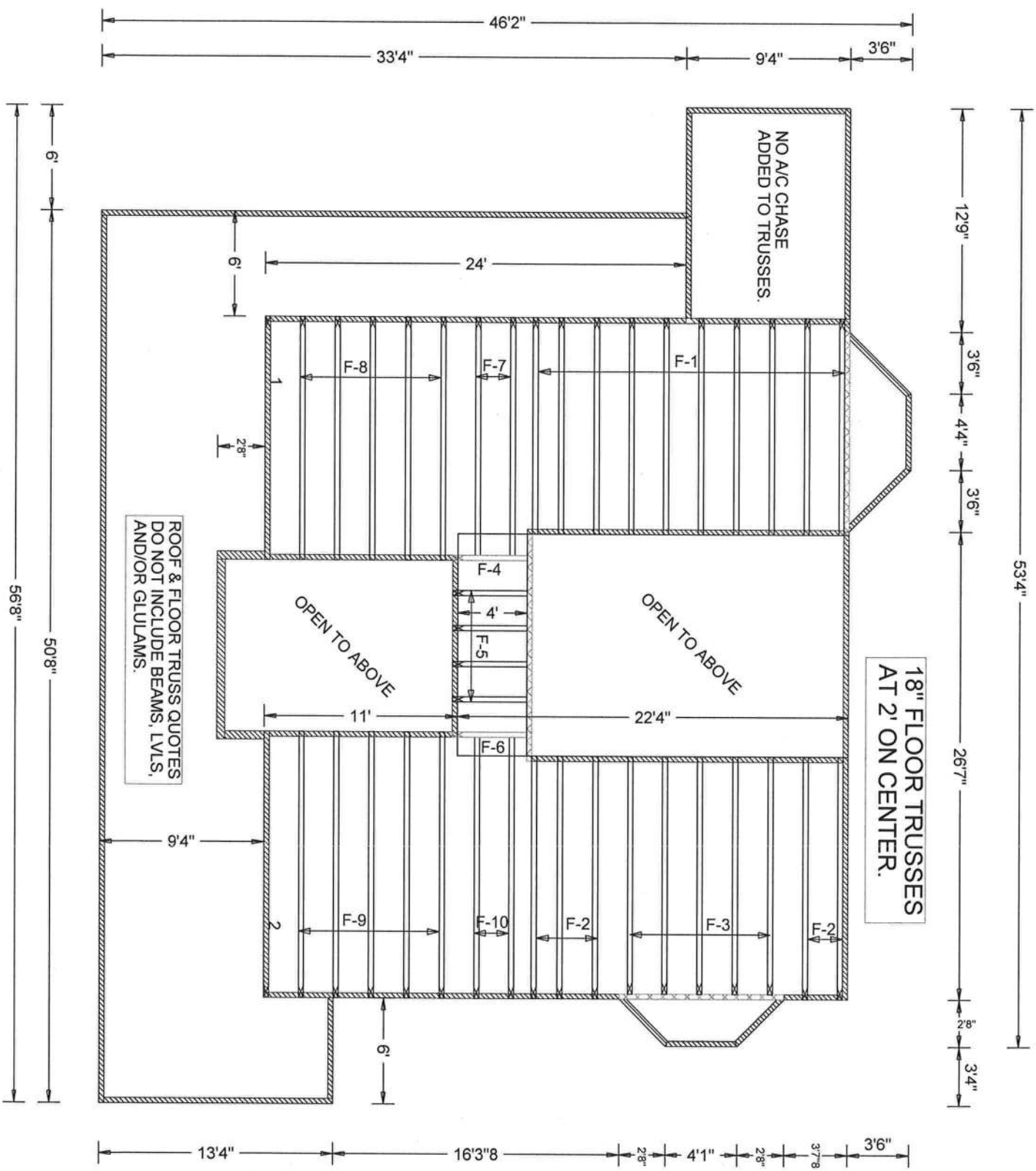
Location: 394 NW CARR CRT, LAKE CITY, FL 32055

Date: 10/01/2008

Wayne A. Russ

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



PAGE NO: 1 OF 1	JOB NO: 5147F	Job Name: TONETTI Customer: Whiddon Construction Designer: Lynn Bell

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TDU215-Z0303104559

Truss Fabricator:	W.B. Howland
Job Identification:	5147-/TONETTI /Whiddon Construction -- , **
Truss Count:	30
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Versions 7.38, 7.37.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: A11015EE-GBLLETIN-A11030EE-

Seal Date: 01/03/2008

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

#	Ref Description	Drawing#	Date
1	45875--1	08003030	01/03/08
2	45876--2	08003031	01/03/08
3	45877--3	08003014	01/03/08
4	45878--A1	08003015	01/03/08
5	45879--A2	08003032	01/03/08
6	45880--A3	08003033	01/03/08
7	45881--A4	08003034	01/03/08
8	45882--A5	08003035	01/03/08
9	45883--A6	08003016	01/03/08
10	45884--A7	08003017	01/03/08
11	45885--A8	08003018	01/03/08
12	45886--A9	08003019	01/03/08
13	45887--A10	08003036	01/03/08
14	45888--A11	08003037	01/03/08
15	45889--A12	08003038	01/03/08
16	45890--A13	08003020	01/03/08
17	45891--A14	08003021	01/03/08
18	45892--A15	08003022	01/03/08
19	45893--A16	08003023	01/03/08
20	45894--JC1	08003039	01/03/08
21	45895--JC3	08003024	01/03/08
22	45896--JC5	08003040	01/03/08
23	45897--JE6	08003025	01/03/08
24	45898--JE6A	08003026	01/03/08
25	45899--JE6B	08003027	01/03/08
26	45900--JE6C	08003040	01/03/08
27	45901--JH3	08003028	01/03/08
28	45902--JH4	08003029	01/03/08
29	45903--JH8	08003041	01/03/08
30	45904--JH8A	08003042	01/03/08

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
 Document ID:1TDU215-Z0303104559

Truss Fabricator:	W.B. Howland
Job Identification:	5147-/TONETTI /Whiddon Construction -- , **
Truss Count:	1
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Versions 7.38, 7.37.
Structural Engineer of Record:	
Address:	
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration Floor - N/A Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Seal Date: 01/03/2008

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Revised Trusses

#	Ref	Description	Drawing#	Date
1	45900--JE6C		08003040	01/03/08

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Gable end supports 8" max rake overhang.

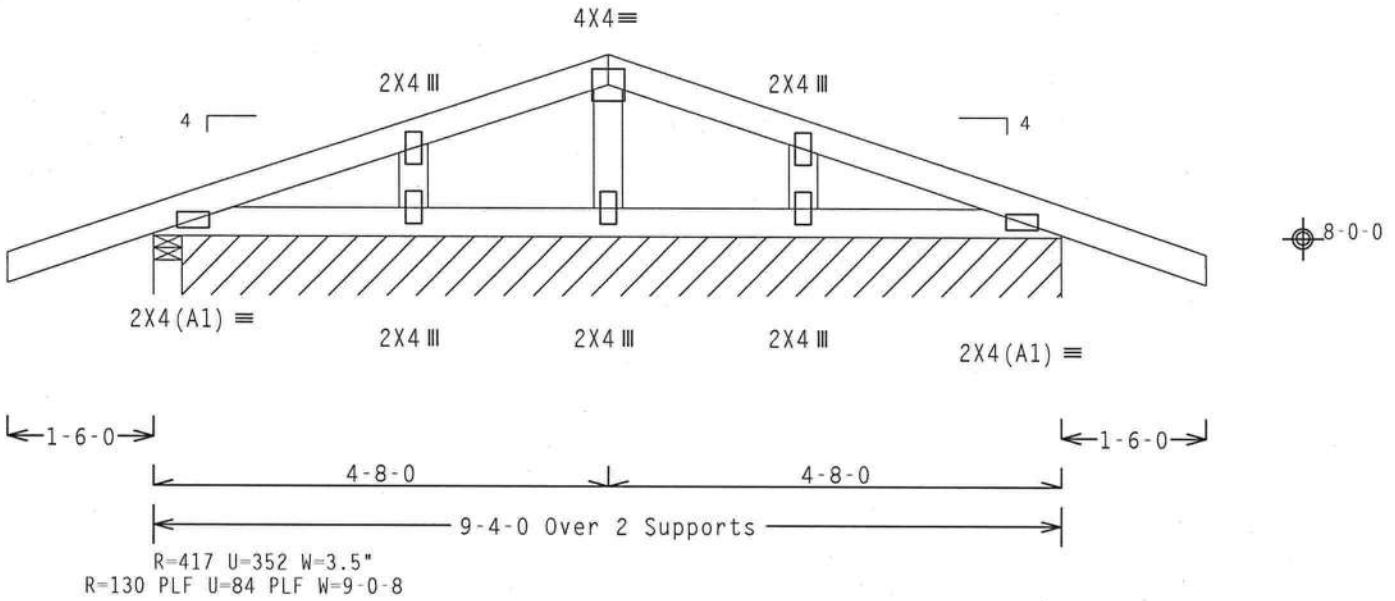
See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

The overall height of this truss excluding overhang is 1-10-10.

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

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810.02 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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

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

JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan

TC LL	20.0 PSF	REF	R215-- 45875
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003030
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	40.0 PSF	SEQN-	95295
DUR.FAC.	1.25	FROM	LRB
SPACING	SEE ABOVE	JREF-	1TDU215_Z03

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Gable end supports 8" max rake overhang.

See DWGS A11030EE0207 & GBLLETIN0207 for more requirements.

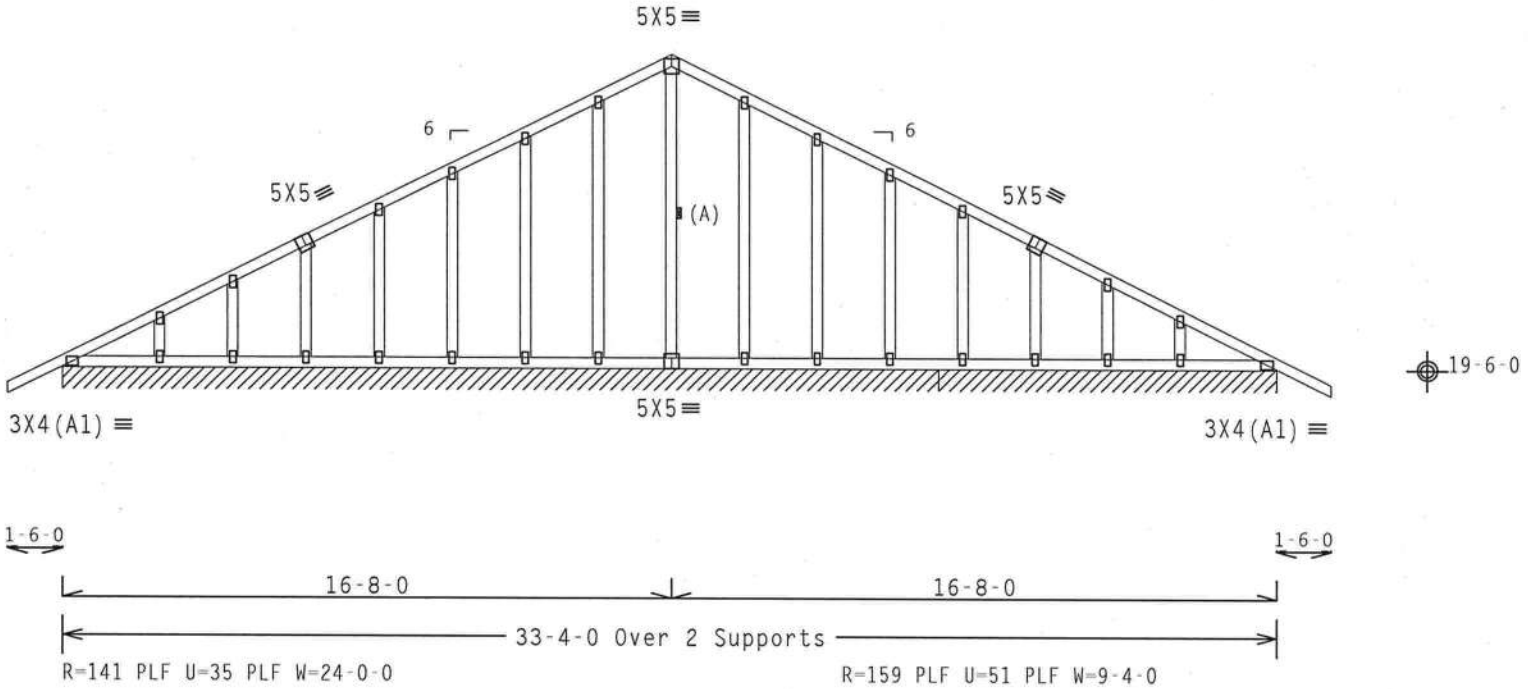
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 8-8-3.

110 mph wind, 23.64 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810 #2 QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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

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JAMES F. COLLINS JR. LICENSE No. 62212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 '08

TC LL	20.0 PSF	REF	R215-- 45876
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003031
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	40.0 PSF	SEQN-	95324
DUR.FAC.	1.25	FROM	LRB
SPACING	SEE ABOVE	JREF-	1TDU215_Z03

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 0.00 PSF. Top chord must not be cut or notched.

(A) Continuous lateral bracing equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & grade or better, attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

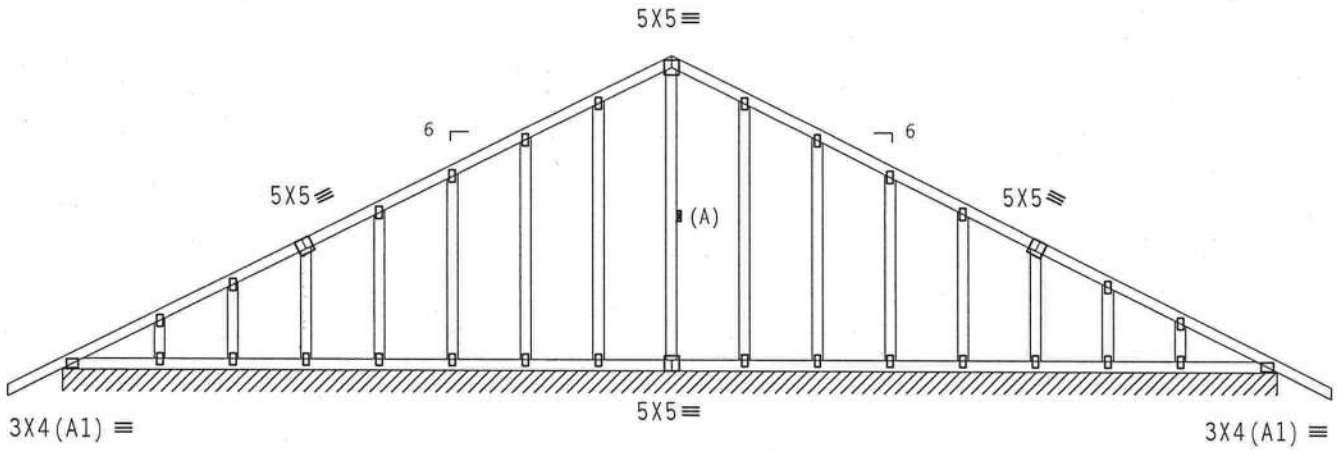
110 mph wind, 23.64 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

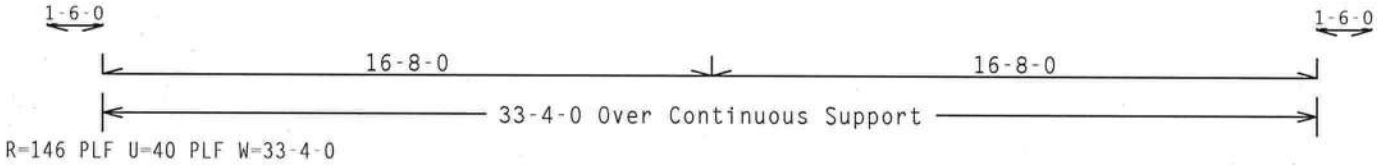
Wind reactions based on MWFRS pressures.

See DWGS A11030EE0207 & GBLLETIN0207 for more requirements.

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 8-8-3.





Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 08

TC LL	20.0 PSF	REF	R215-- 45877
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003014
BC LL	0.0 PSF	HC-ENG	WHK/WHK *
TOT.LD.	40.0 PSF	SEQN-	95317
DUR.FAC.	1.25	FROM	LRB
SPACING	SEE ABOVE	JREF-	1TDU215_Z03

(5147-/TONETTI /Whiddon Construction -- , ** - A1)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

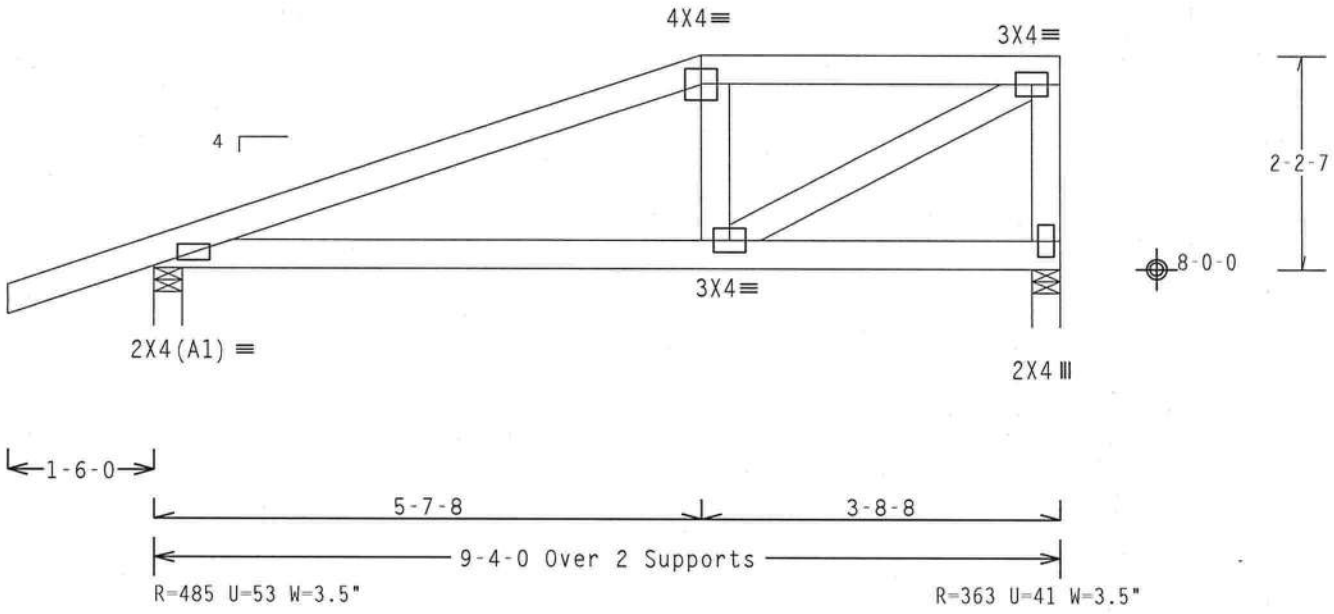
Deflection meets L/240 live and L/180 total load.

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

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES E. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 08

TC LL	20.0 PSF	REF R215-- 45878
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003015
BC LL	0.0 PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0 PSF	SEQN- 95375
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

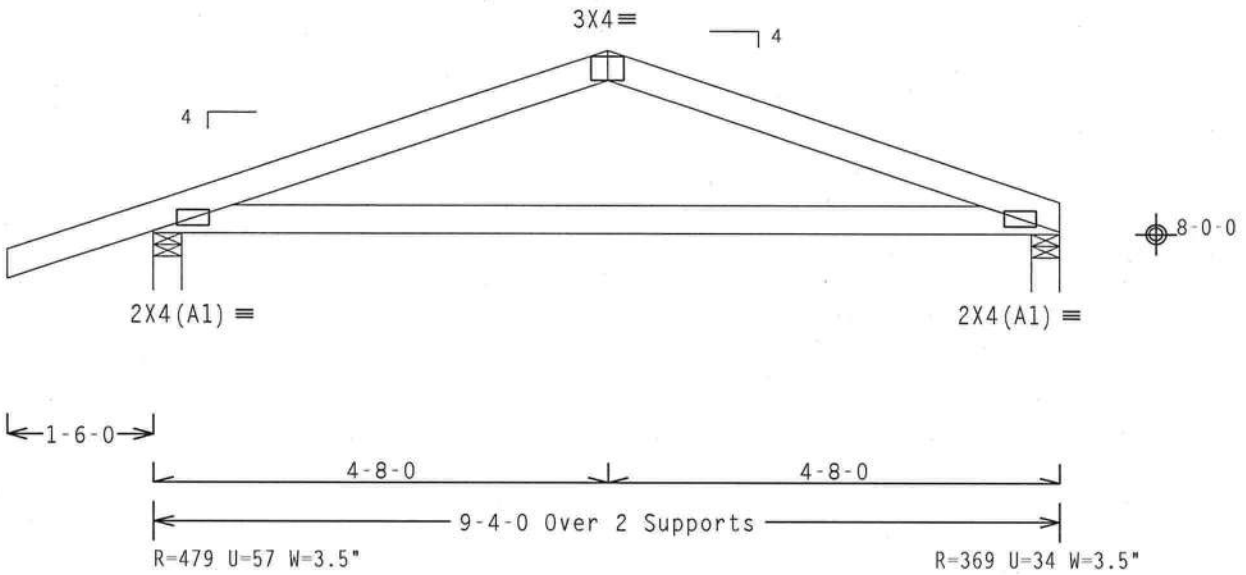
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 1-10-10.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810.03 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 08

TC LL	20.0 PSF	REF R215-- 45879
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003032
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 95291
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

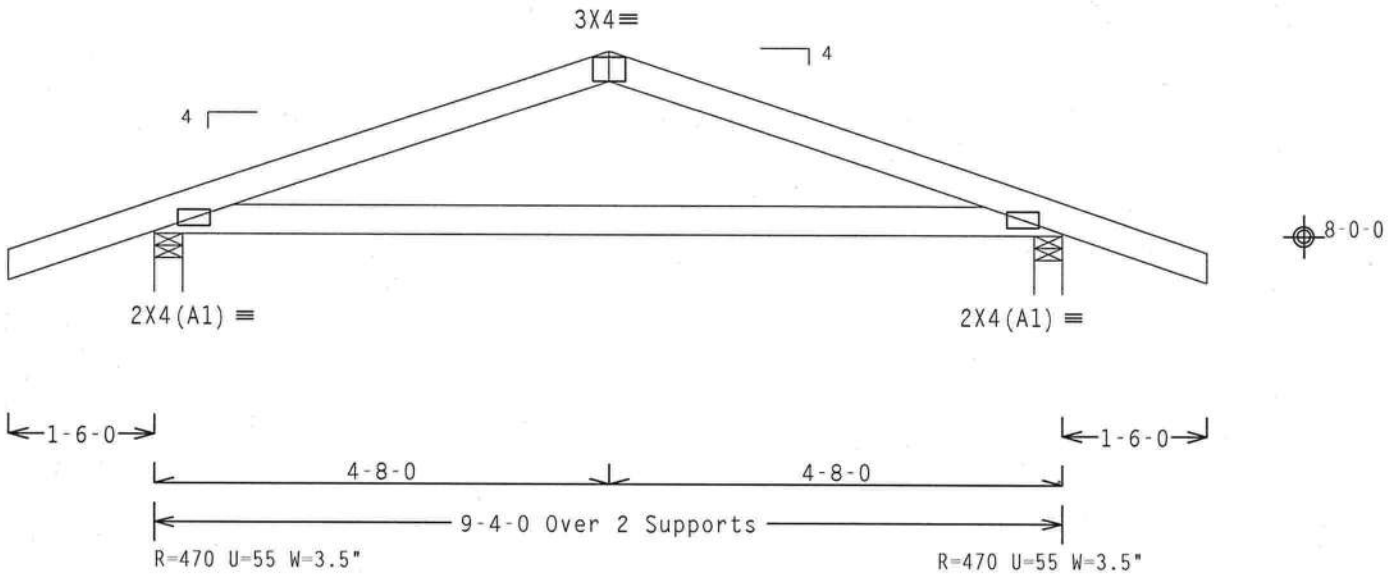
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 1-10-10.

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

Wind reactions based on MWFRS pressures.



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

PLT TYP. Wave

7.38.0810.00

QTY:1

FL/-/5/-/-/R/-

Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 0

TC LL	20.0 PSF	REF R215-- 45880
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003033
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 95293
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

Top chord 2x6 SP #2 N :T1 2x4 SP #2 N:
Bot chord 2x6 SP #2 N
Webs 2x4 SP #2 N

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

Wind reactions based on MWFRS pressures.

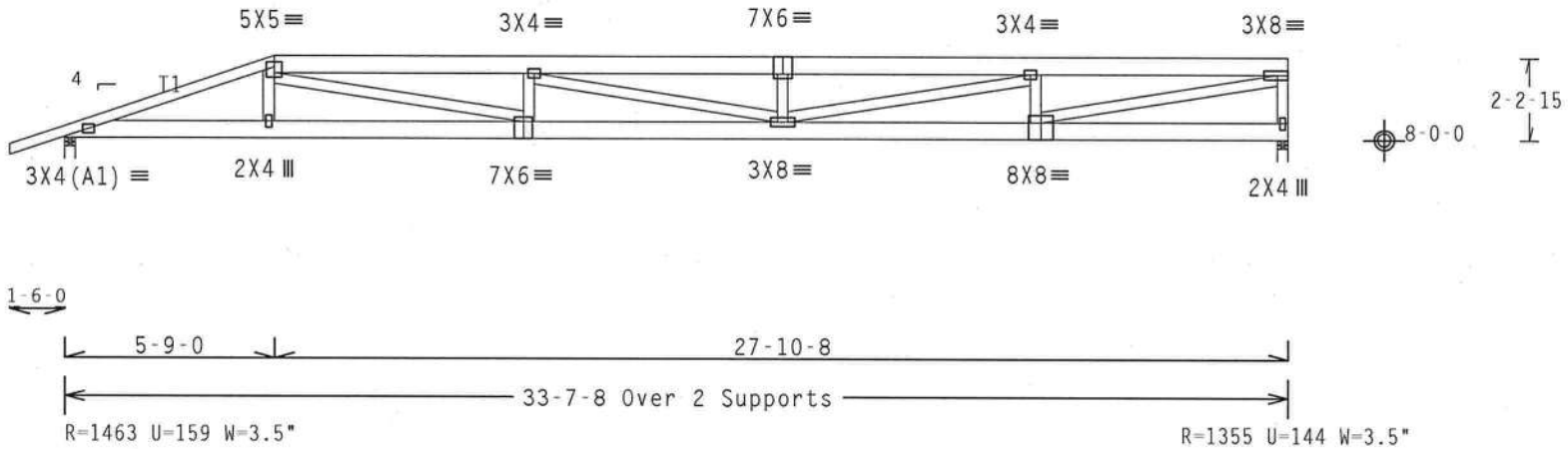
Deflection meets L/240 live and L/180 total load.

2 COMPLETE TRUSSES REQUIRED

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

Right end vertical not exposed to wind pressure.

The overall height of this truss excluding overhang is 2-2-15.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810 08 QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 08

TC LL	20.0 PSF	REF	R215-- 45881
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003034
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	40.0 PSF	SEQN-	95392
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

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

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

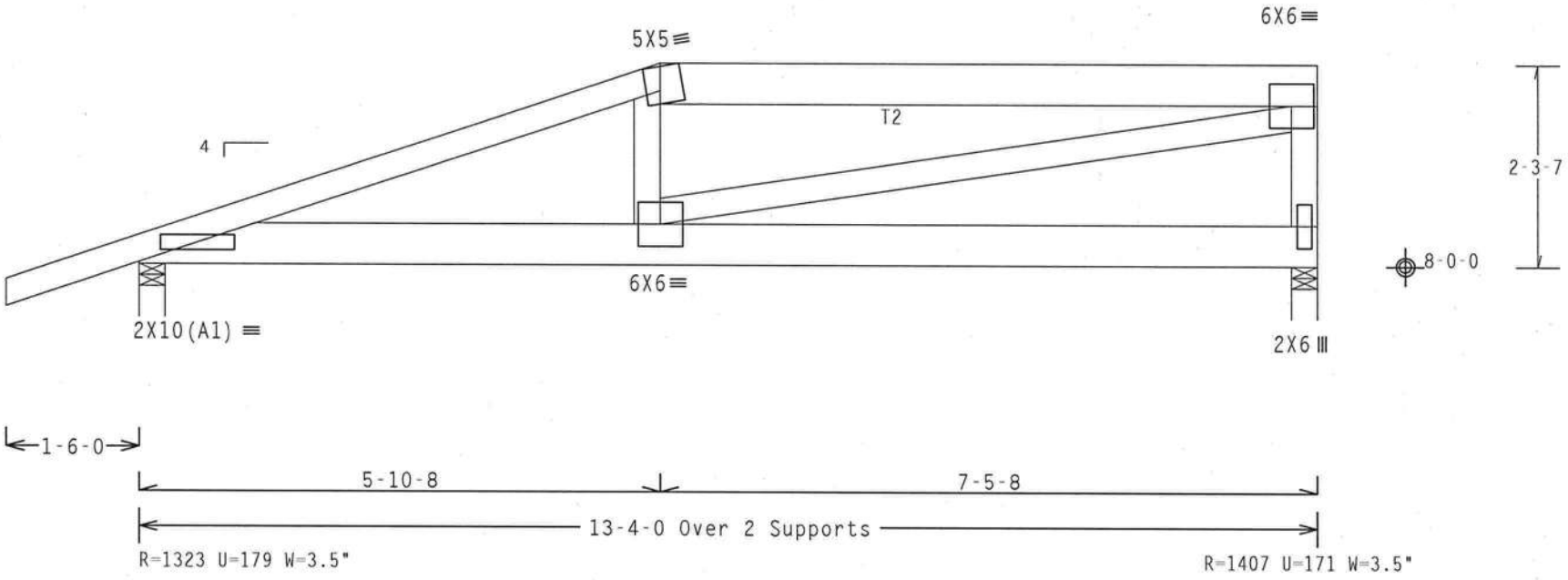
Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at -1.50 to 61 PLF at 5.88
TC - From 61 PLF at 5.88 to 61 PLF at 13.33
BC - From 20 PLF at 0.00 to 20 PLF at 13.33
TC - 150 LB Conc. Load at 5.94, 7.94, 9.94, 11.94
BC - 753 LB Conc. Load at 5.87
BC - 68 LB Conc. Load at 7.94, 9.94, 11.94

Right end vertical not exposed to wind pressure.

The overall height of this truss excluding overhang is 2-3-7.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810.08 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 0[illegible]

TC LL	20.0 PSF	REF R215-- 45882
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003035
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 95344
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

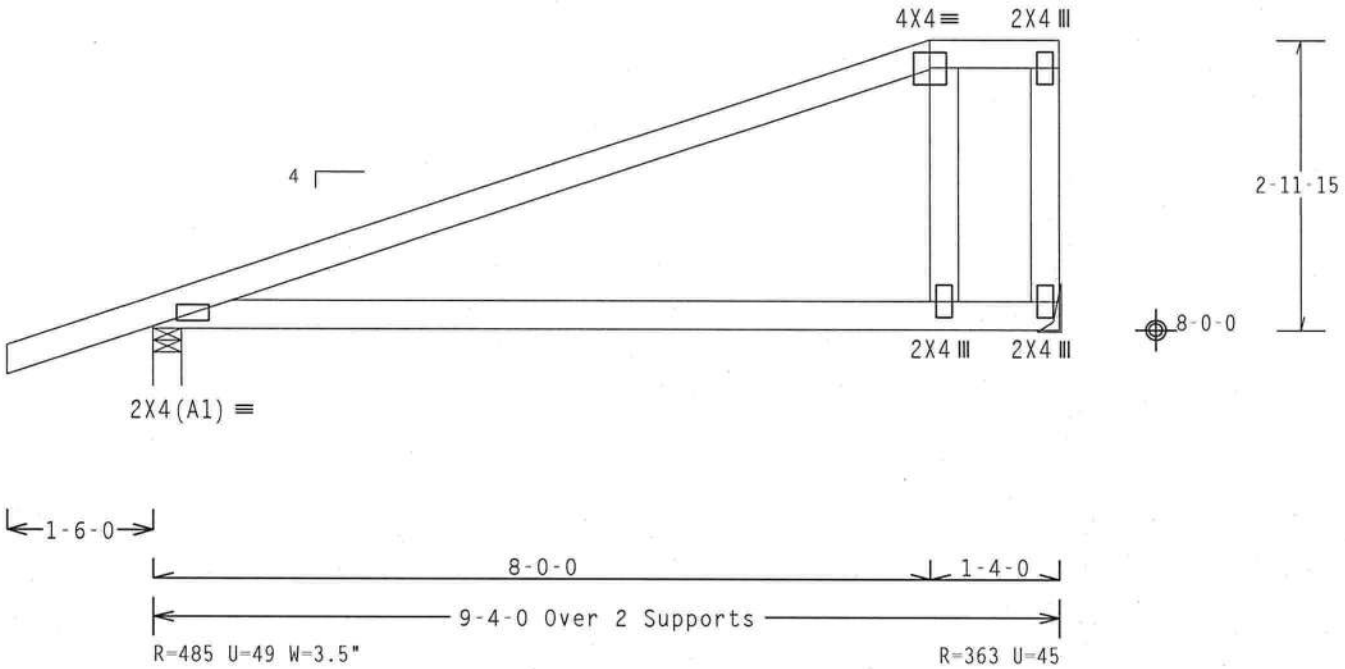
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-11-15.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave | Cq/RT=1.00(1.25)/0(0) | 7.38.0810 | QTY:1 | FL/-/5/-/-/R/- | Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 08

TC LL	20.0 PSF	REF	R215-- 45883
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003016
BC LL	0.0 PSF	HC-ENG	WHK/WHK *
TOT.LD.	40.0 PSF	SEQN-	95279
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

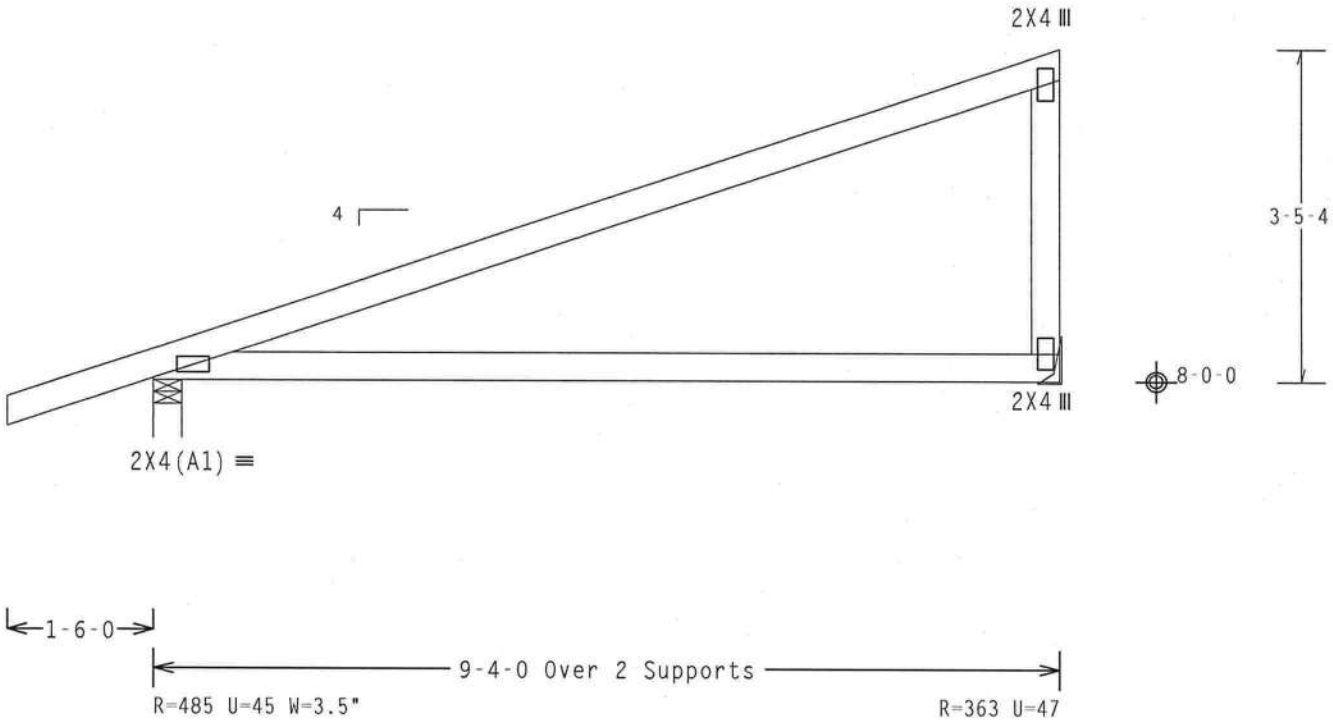
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 3-5-4.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/0(0) 7.38.0810.0 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 08

TC LL	20.0 PSF	REF R215-- 45884
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003017
BC LL	0.0 PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0 PSF	SEQN- 95302
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

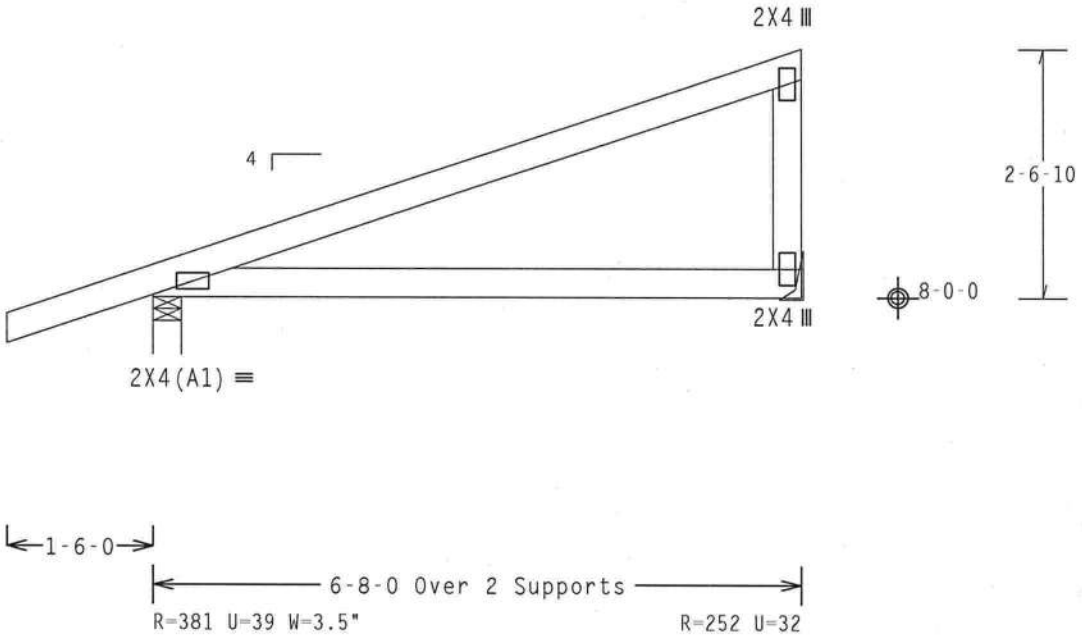
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-6-10.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No: 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 '08

TC LL	20.0 PSF	REF R215-- 45885
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003018
BC LL	0.0 PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0 PSF	SEQN- 95309
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

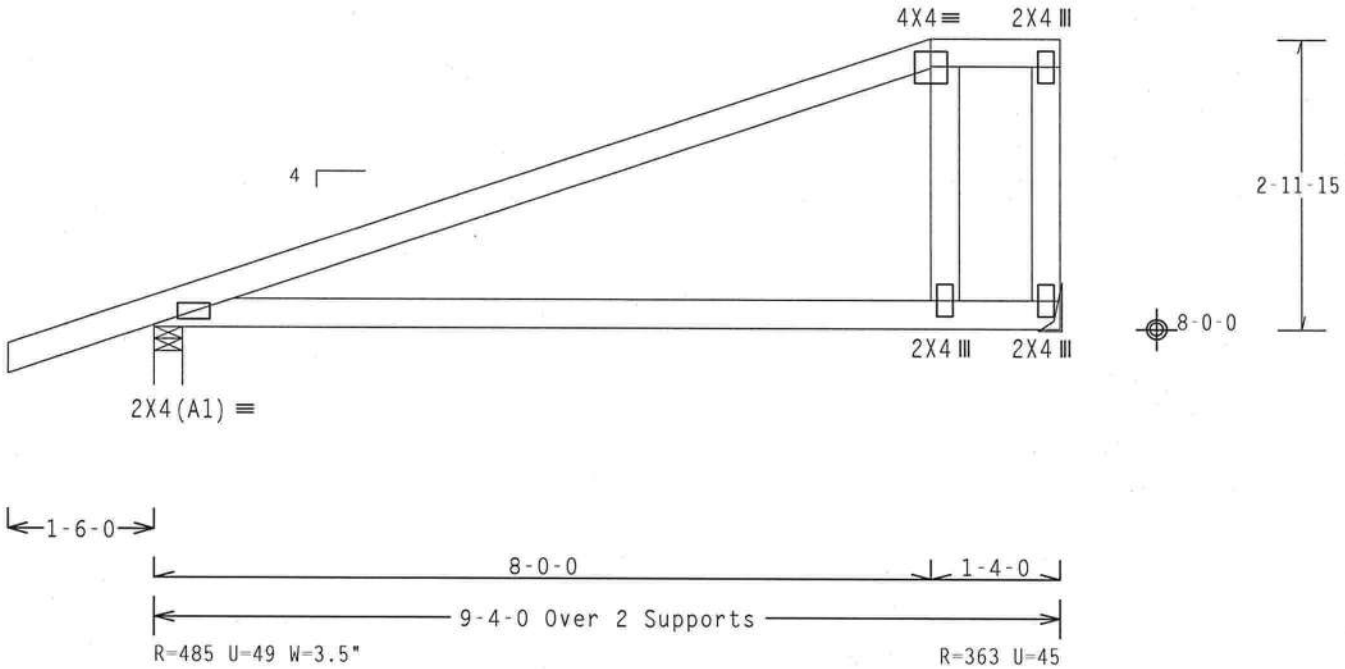
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-11-15.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810 0

PLT TYP. Wave

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

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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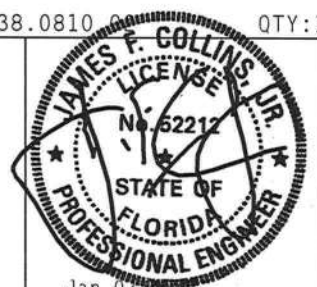


Jan 03 08

TC LL	20.0 PSF	REF	R215-- 45886
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003019
BC LL	0.0 PSF	HC-ENG	WHK/WHK *
TOT.LD.	40.0 PSF	SEQN-	95311
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

Top chord 2x4 SP #2 N
Bot chord 2x4 SP SS
Webs 2x4 SP #2 N

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at 0.00 to 62 PLF at 5.33
TC - From 62 PLF at 5.33 to 62 PLF at 10.67
BC - From 20 PLF at 0.00 to 20 PLF at 10.67
BC - 1369 LB Conc. Load at 0.73, 2.73, 4.73, 5.27, 7.27 9.27

Wind reactions based on MWFRS pressures.

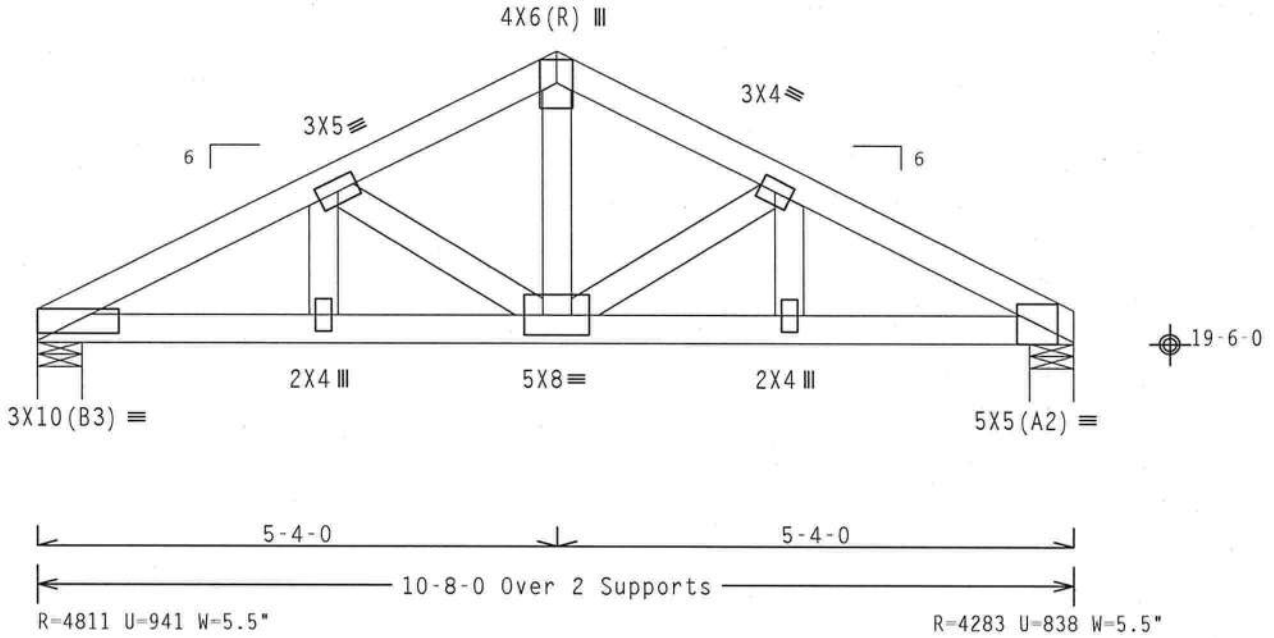
The overall height of this truss excluding overhang is 3-0-3.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (0.131"x3"_Gun_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 2.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 21.18 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Deflection meets L/240 live and L/180 total load.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 08

TC LL	20.0 PSF	REF	R215-- 45887
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003036
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	40.0 PSF	SEQN-	95339
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

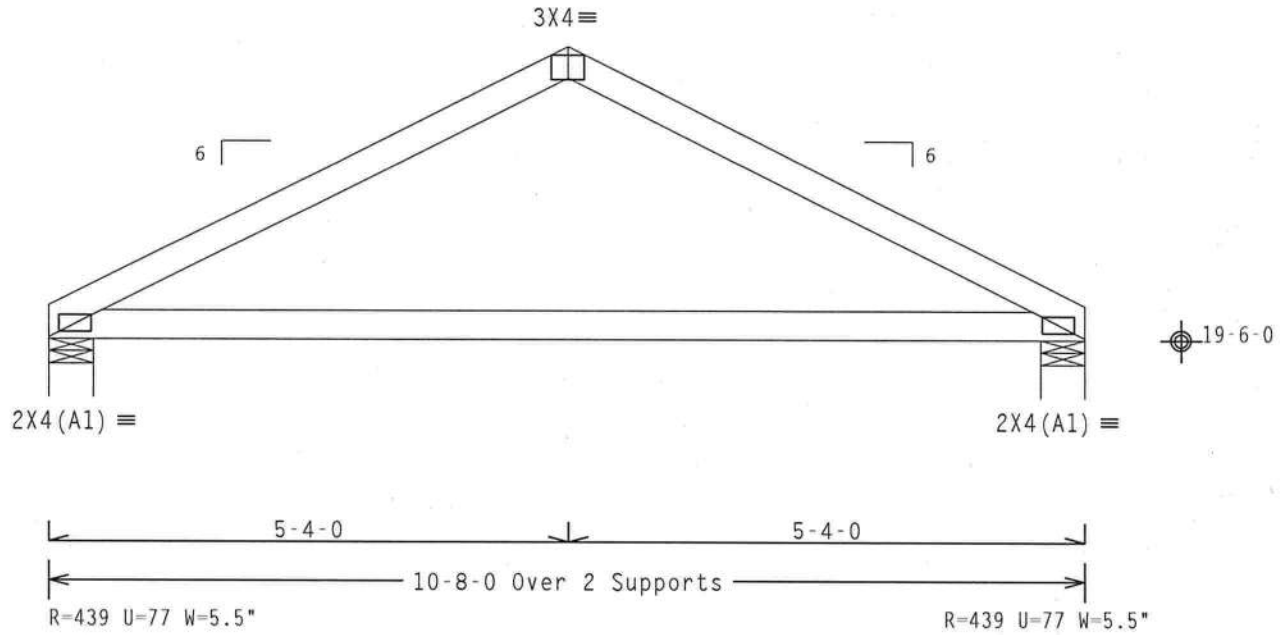
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 3-0-3.

110 mph wind, 21.18 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810.02 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR. LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 09 2008

TC LL	20.0 PSF	REF R215-- 45888
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003037
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 95307
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

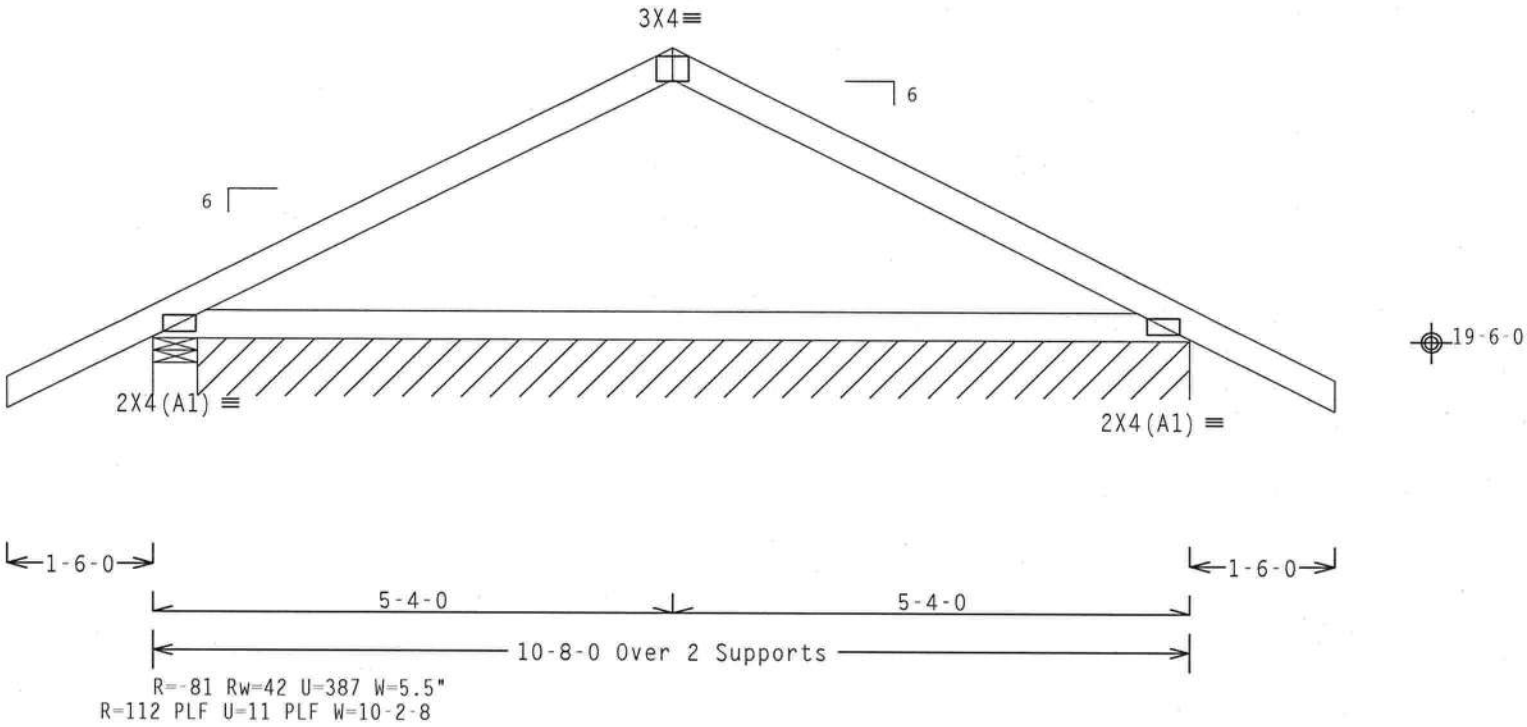
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 3-0-3.

110 mph wind, 20.81 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810

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

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
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JAMES F. COLLINS, JR. LICENSED No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 '08

TC LL	20.0 PSF	REF R215-- 45889
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003038
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 95305
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

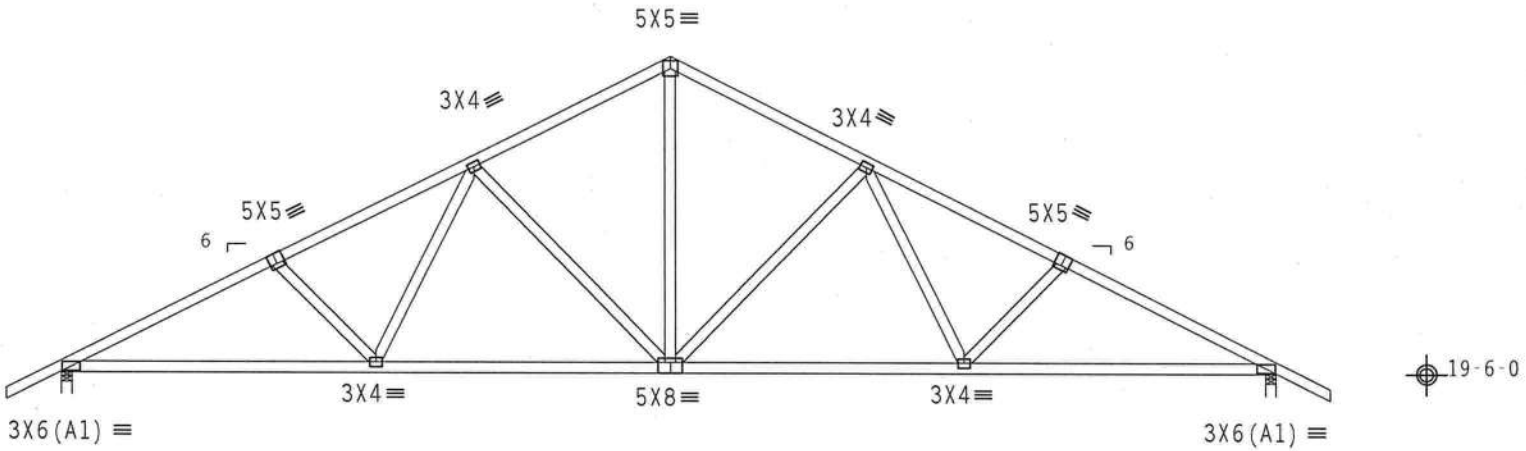
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

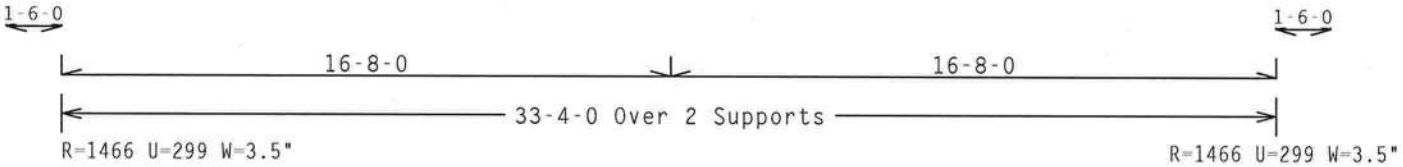
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 8-8-3.

110 mph wind, 23.64 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave | Cq/RT=1.00(1.25)/0(0) | 7.38.0810 | QTY:1 | FL/-/5/-/-/R/- | Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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

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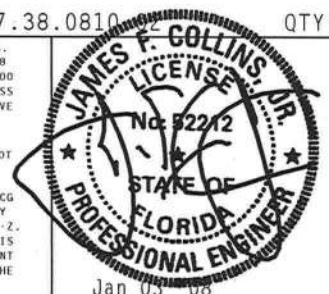


Jan 03 08

TC LL	20.0 PSF	REF	R215-- 45890
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003020
BC LL	0.0 PSF	HC-ENG	WHK/WHK *
TOT.LD.	40.0 PSF	SEQN-	95315
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

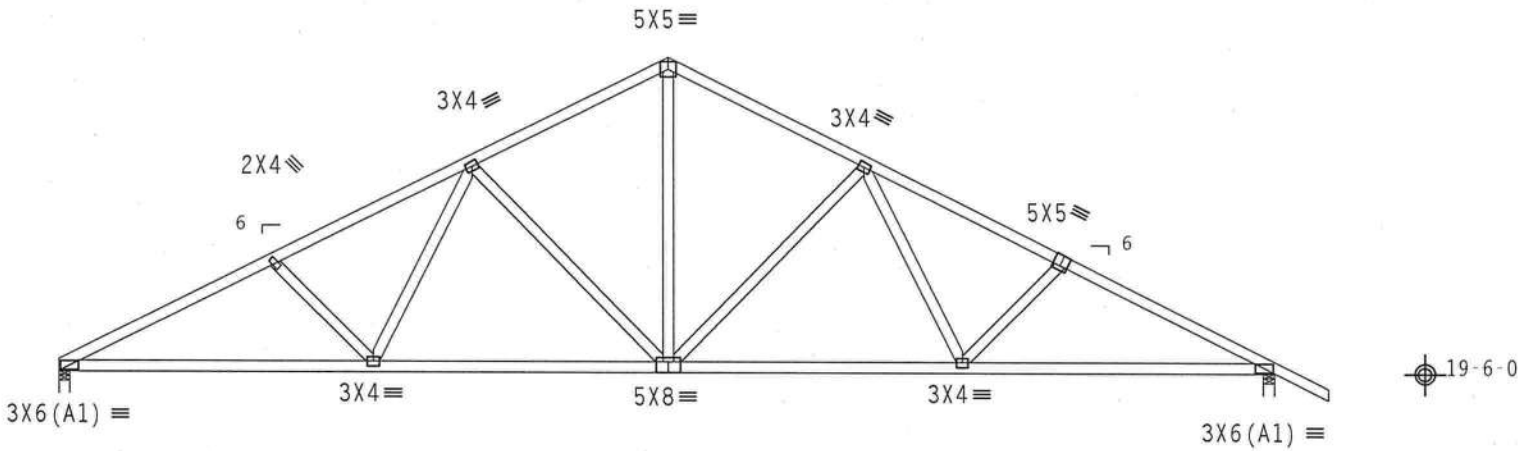
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

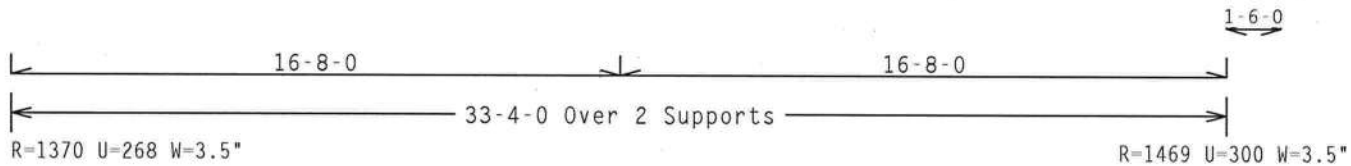
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 8-8-3.

110 mph wind, 23.64 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave | Cq/RT=1.00(1.25)/0(0) | 7.38.0810.0 | QTY:1 | FL/-/5/-/-/R/- | Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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Jan 05 08

TC LL	20.0 PSF	REF R215-- 45891
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003021
BC LL	0.0 PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0 PSF	SEQN- 95322
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

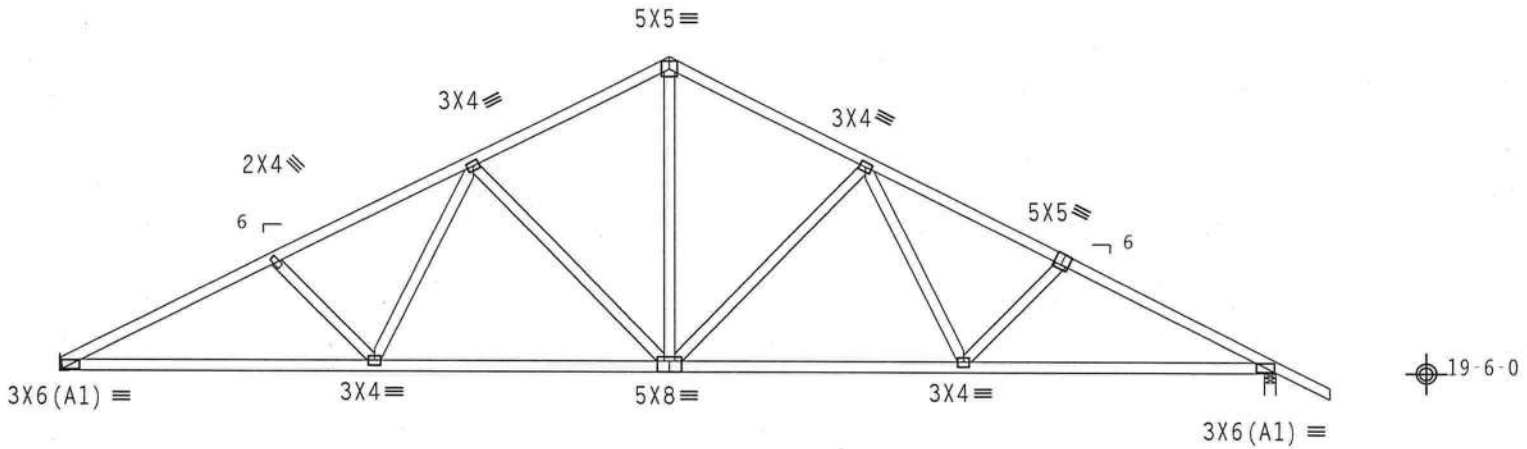
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

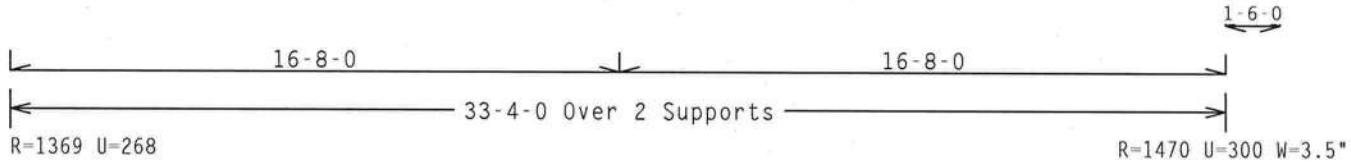
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 8-8-3.

110 mph wind, 23.64 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810 00 QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03,2008

TC LL	20.0 PSF	REF R215-- 45892
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003022
BC LL	0.0 PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0 PSF	SEQN- 95319
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

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

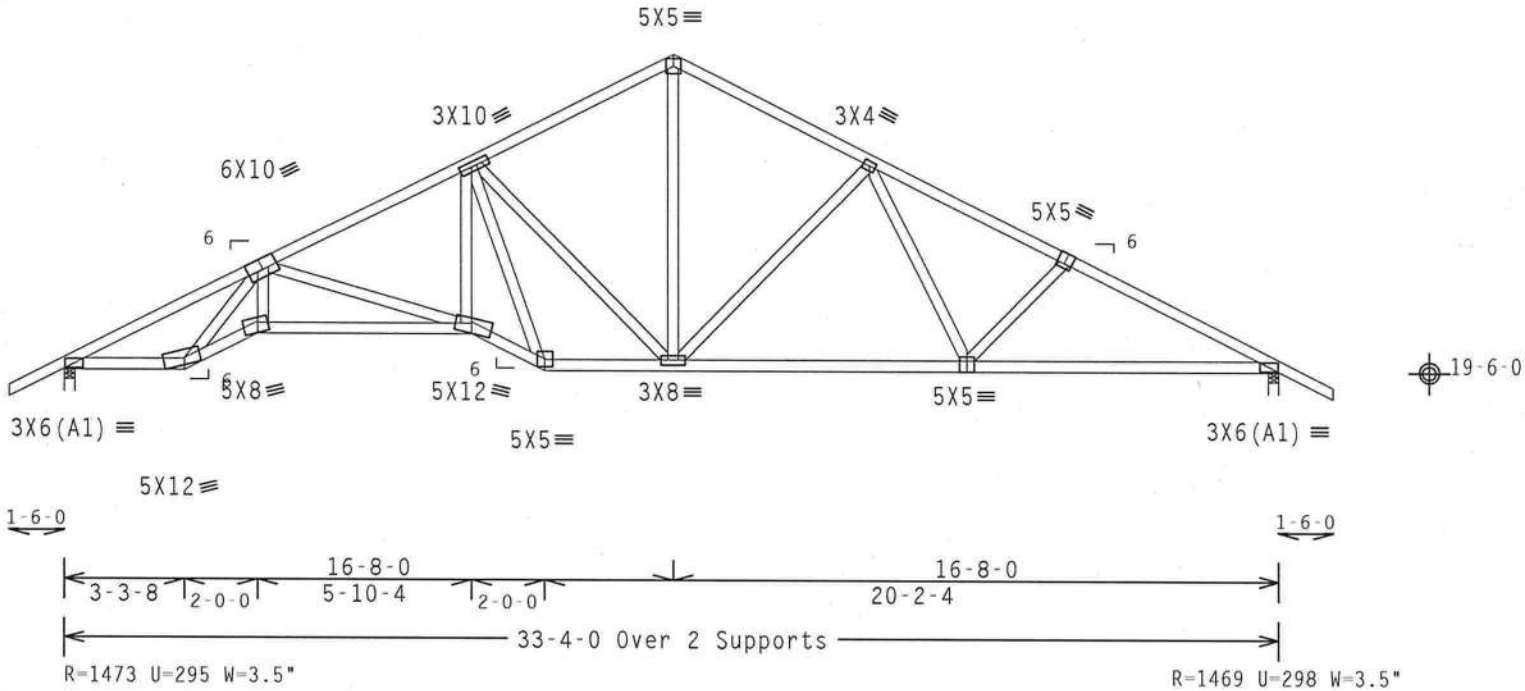
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 8-8-3.

110 mph wind, 23.64 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/0(0) 7.38.0810 0 QTY:1 FL/-/5/-/-/R/- Scale =.1875"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 08

TC LL	20.0 PSF	REF R215-- 45893
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003023
BC LL	0.0 PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0 PSF	SEQN- 95313
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

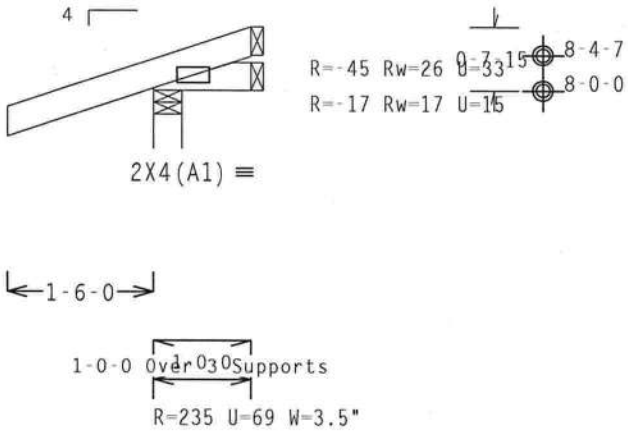
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 0-7-15.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 08

TC LL	20.0 PSF	REF R215-- 45894
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003039
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 95287
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

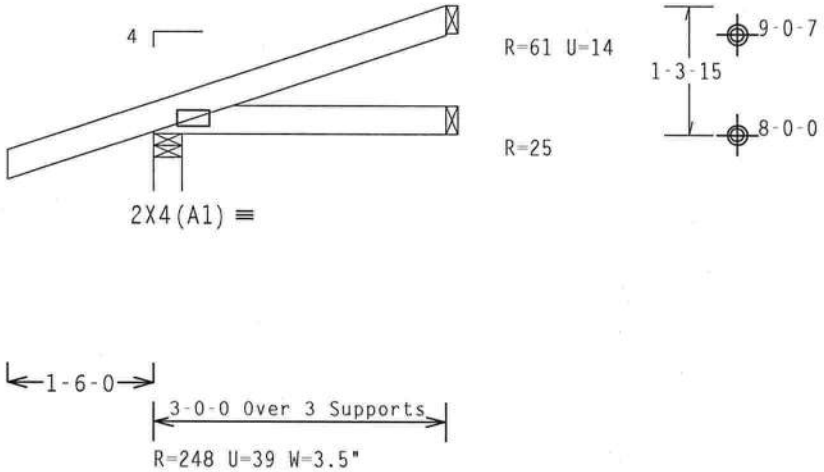
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 1-3-15.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/0(0) 7.38.0810.02 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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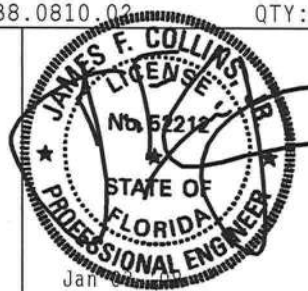


Jan

TC LL	20.0	PSF	REF R215-- 45895
TC DL	10.0	PSF	DATE 01/03/08
BC DL	10.0	PSF	DRW HCUSR215 08003024
BC LL	0.0	PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0	PSF	SEQN- 95282
DUR.FAC.	1.25		FROM LRB
SPACING	24.0"		JREF- 1TDU215_Z03

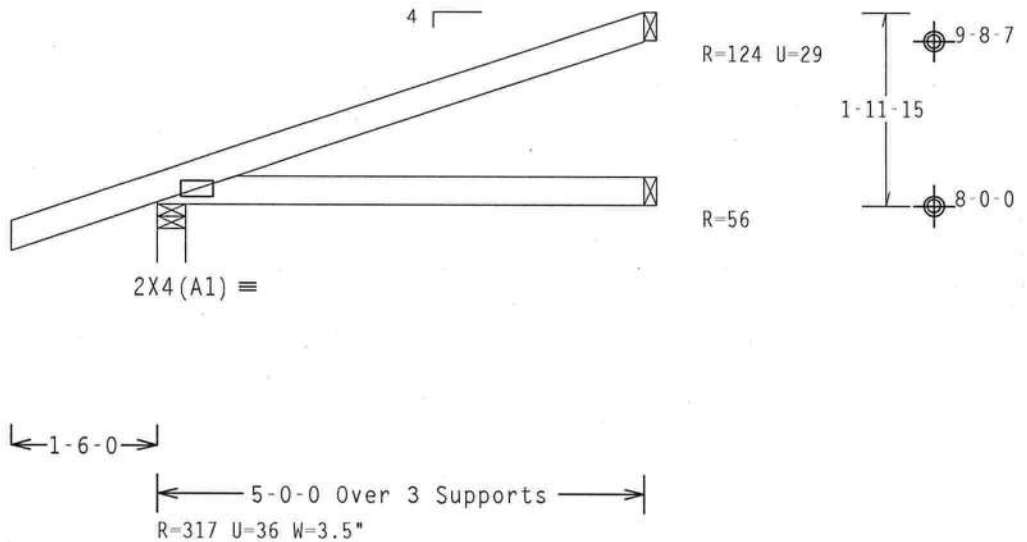
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 1-11-15.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 05 08

TC LL	20.0 PSF	REF R215-- 45896
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003040
BC LL	0.0 PSF	HC-ENG EC/WHK *
TOT.LD.	40.0 PSF	SEQN- 70711
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

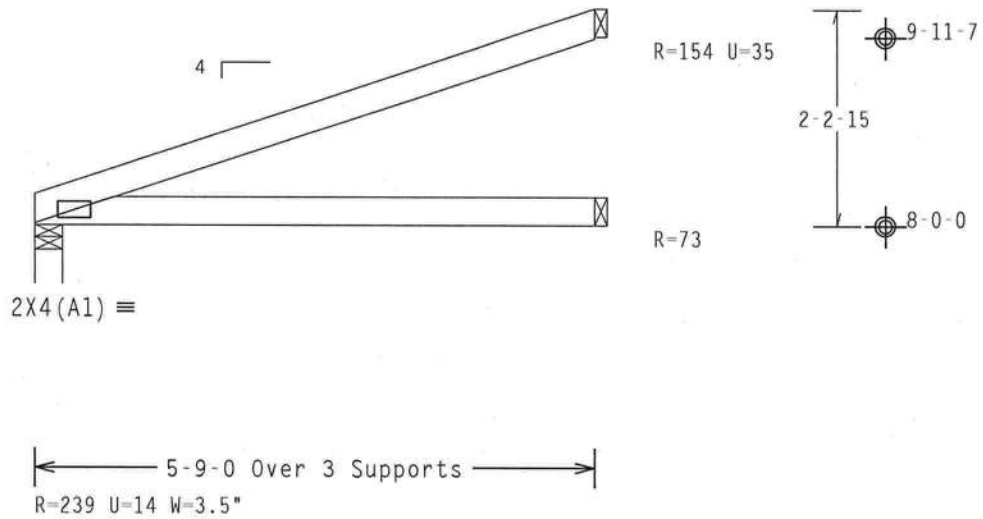
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-2-15.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810.02 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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

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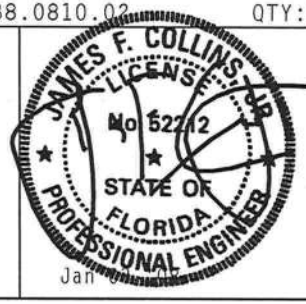


Jan

TC LL	20.0 PSF	REF	R215-- 45897
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003025
BC LL	0.0 PSF	HC-ENG	WHK/WHK *
TOT.LD.	40.0 PSF	SEQN-	95370
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

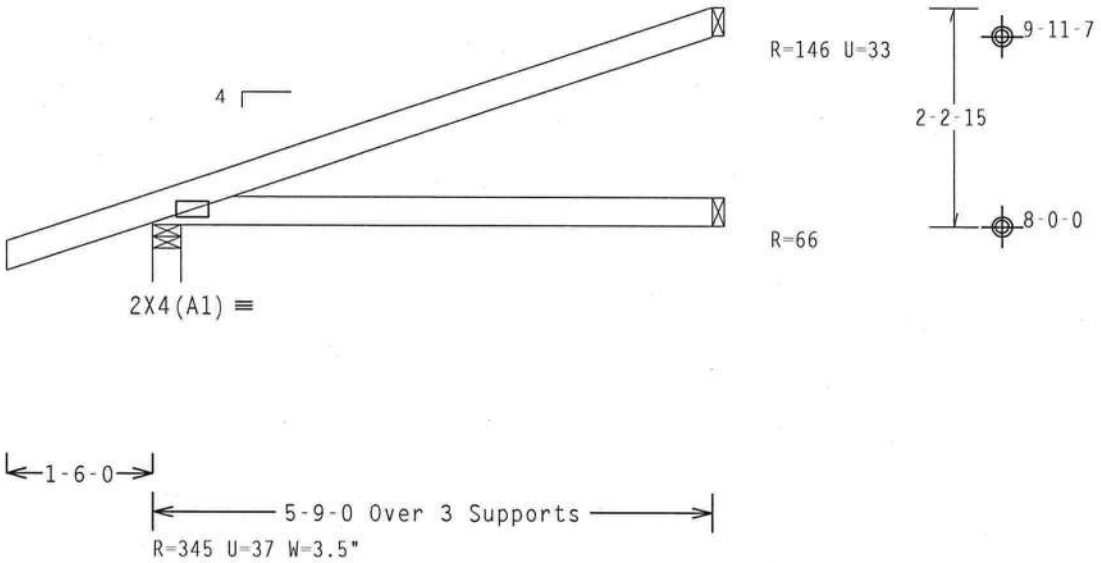
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-2-15.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810 [illegible] QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 08

TC LL	20.0 PSF	REF R215-- 45898
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003026
BC LL	0.0 PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0 PSF	SEQN- 95365
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

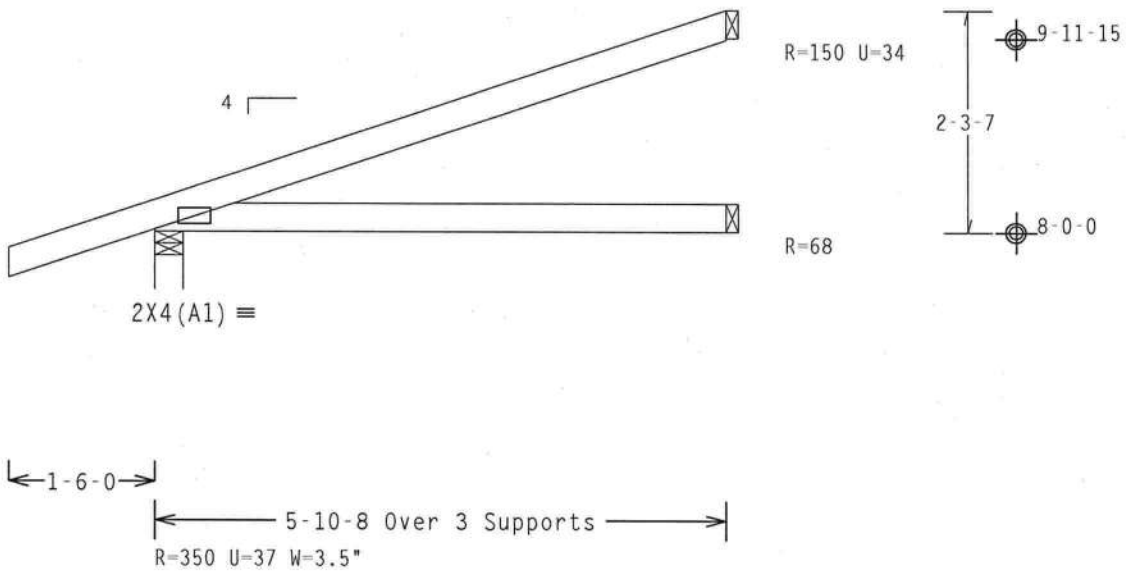
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-3-7.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52242 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 08

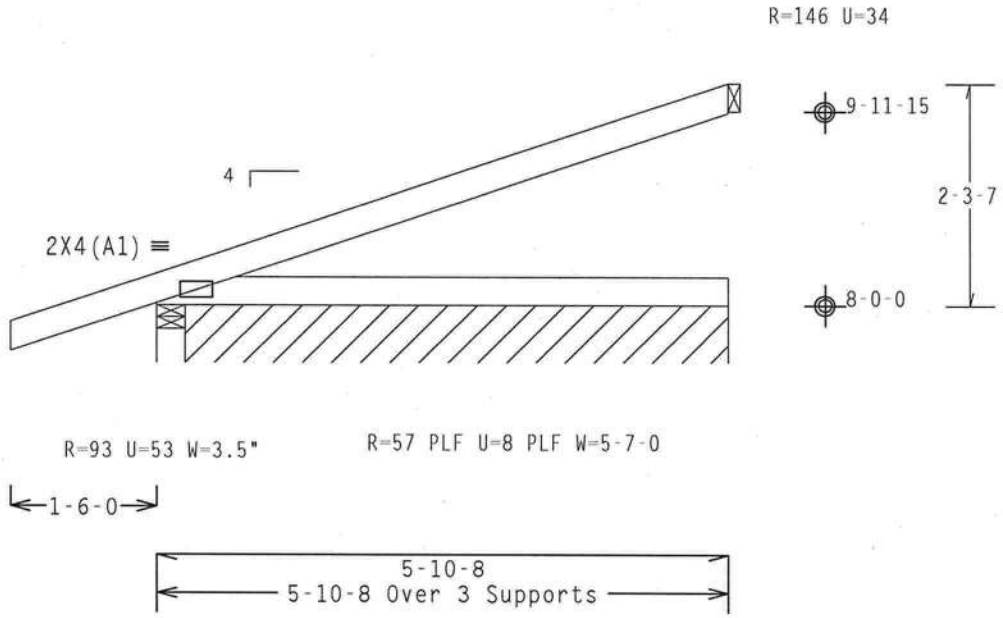
TC LL	20.0 PSF	REF R215-- 45899
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003027
BC LL	0.0 PSF	HC-ENG WHK/WHK *
TOT.LD.	40.0 PSF	SEQN- 95299
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

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

Deflection meets L/240 live and L/180 total load.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.37.0521.12 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR. LICENSE No. 52262 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03

TC LL	20.0 PSF	REF R215-- 45900
TC DL	10.0 PSF	DATE 01/03/08
BC DL	10.0 PSF	DRW HCUSR215 08003040
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	40.0 PSF	SEQN- 11221 REV
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z03

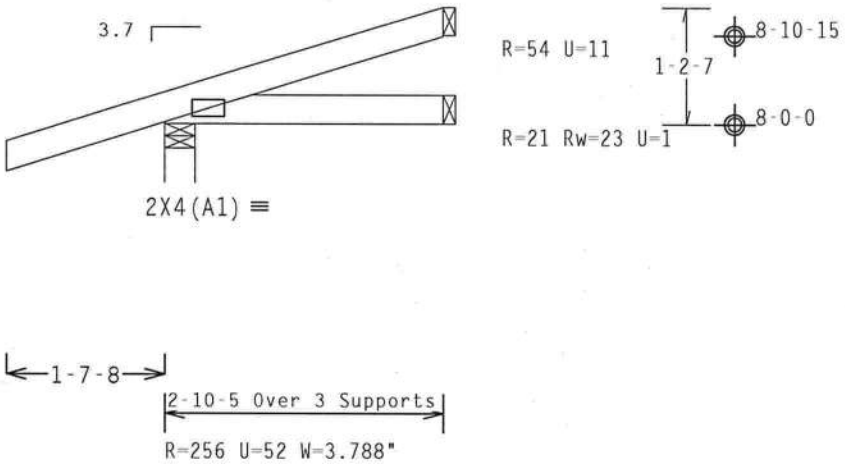
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 1-2-7.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810

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

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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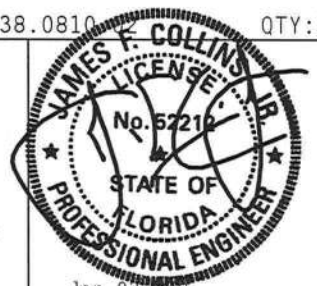


Jan 03 '08

TC LL	20.0 PSF	REF	R215-- 45901
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003028
BC LL	0.0 PSF	HC-ENG	WHK/WHK *
TOT.LD.	40.0 PSF	SEQN-	95333
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

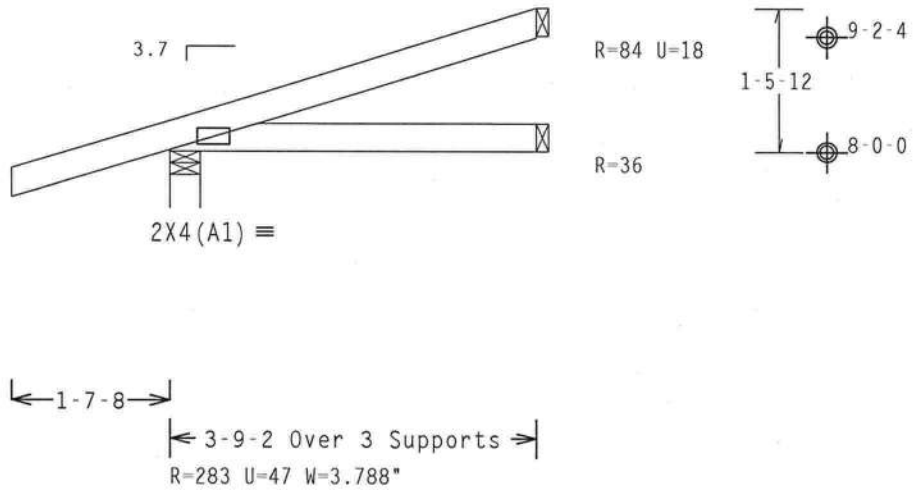
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 1-5-12.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810.03 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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Jan

TC LL	20.0 PSF	REF	R215-- 45902
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003029
BC LL	0.0 PSF	HC-ENG	WHK/WHK *
TOT.LD.	40.0 PSF	SEQN-	95335
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

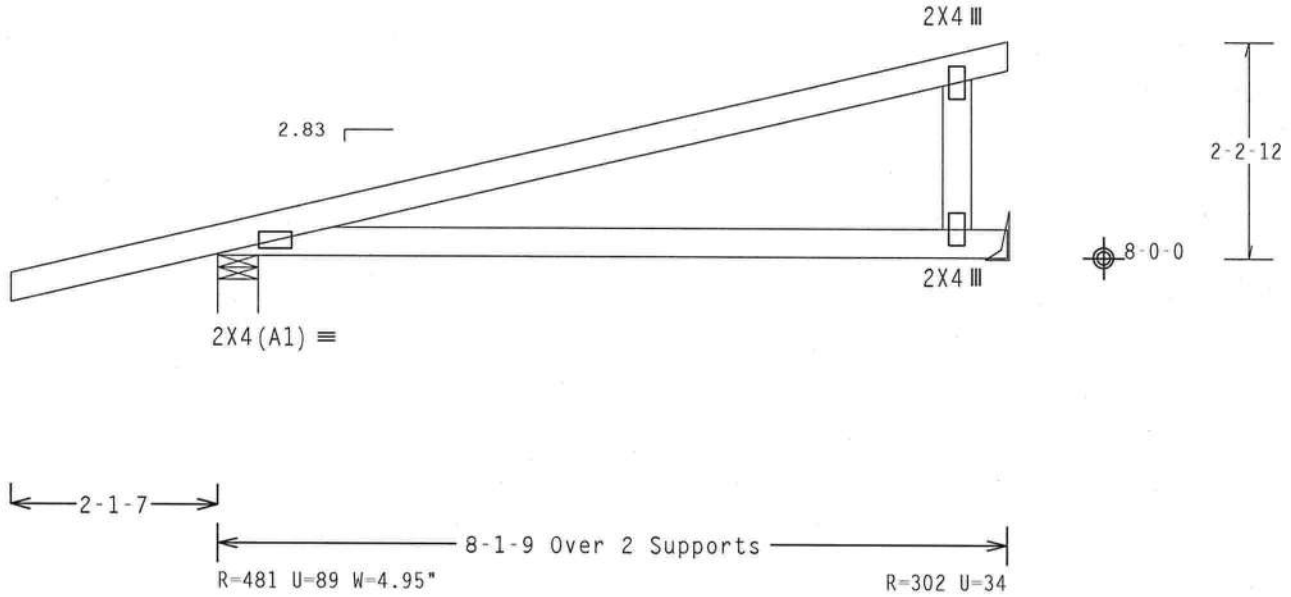
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 2-2-12.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/0(0) 7.38.0810 0 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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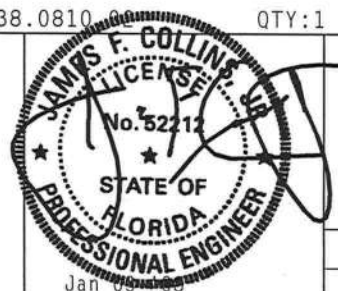


Jan 03,2008

TC LL	20.0 PSF	REF	R215-- 45903
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003041
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	40.0 PSF	SEQN-	95380
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

Top chord 2x4 SP SS
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #2 N

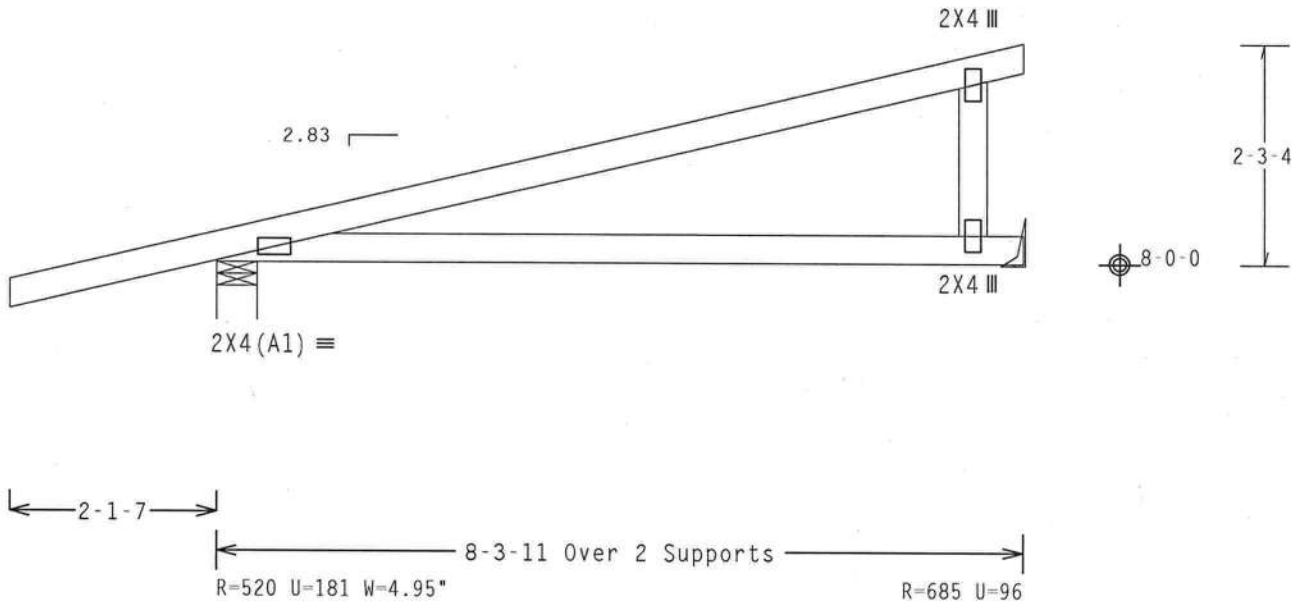
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at -2.12 to 61 PLF at 8.31
BC - From 20 PLF at 0.00 to 20 PLF at 8.31
TC - -90 LB Conc. Load at 1.48
TC - 123 LB Conc. Load at 4.31
TC - 248 LB Conc. Load at 7.13
BC - -35 LB Conc. Load at 1.48
BC - 51 LB Conc. Load at 4.31
BC - 111 LB Conc. Load at 7.13

The overall height of this truss excluding overhang is 2-3-4.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810.03 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR. LICENSE No. 32212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 2008

TC LL	20.0 PSF	REF	R215-- 45904
TC DL	10.0 PSF	DATE	01/03/08
BC DL	10.0 PSF	DRW	HCUSR215 08003042
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	40.0 PSF	SEQN-	95328
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z03

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

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

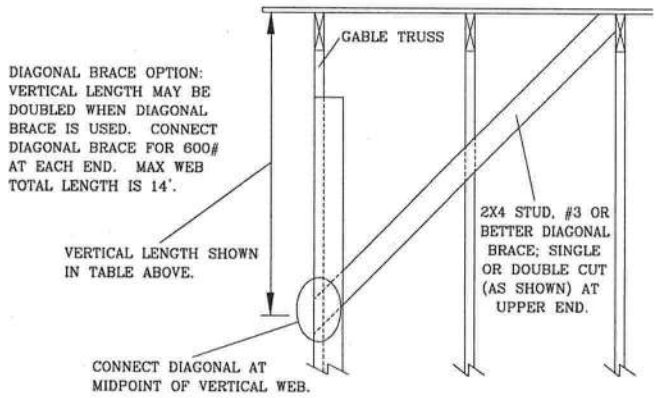
SOUTHERN PINE
#3
STUD
STANDARD

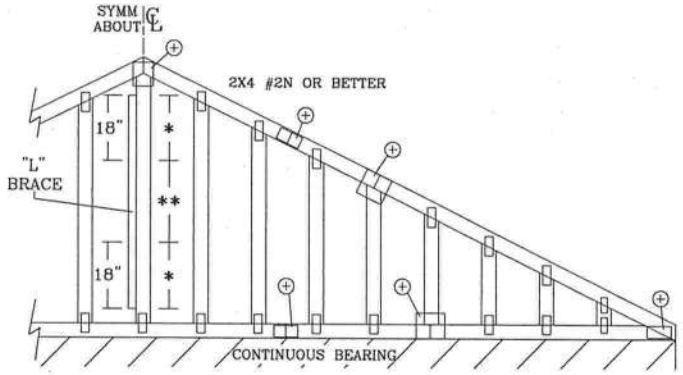
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

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

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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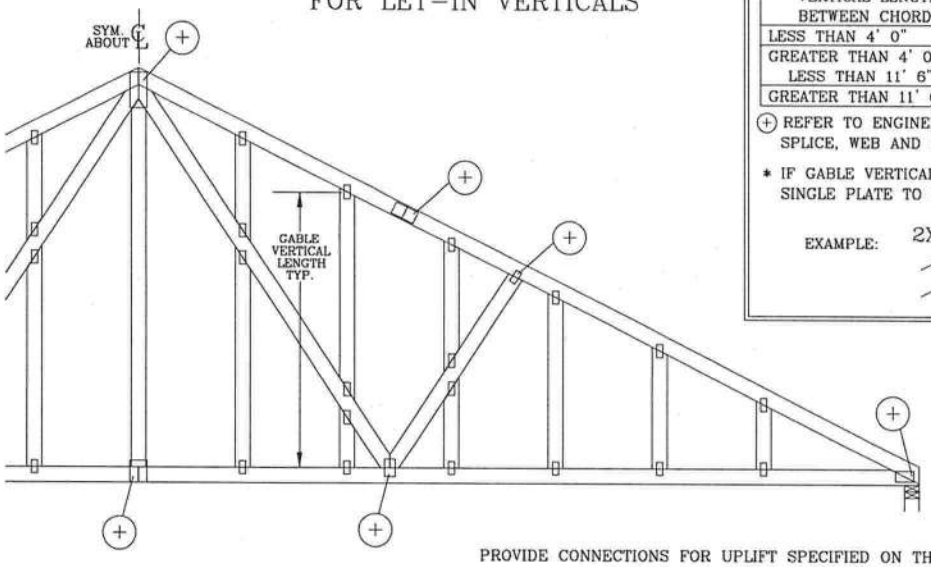
JAN 03 '08

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

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

GABLE DETAIL
FOR LET-IN VERTICALS

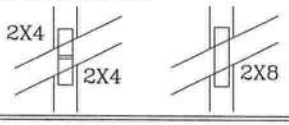


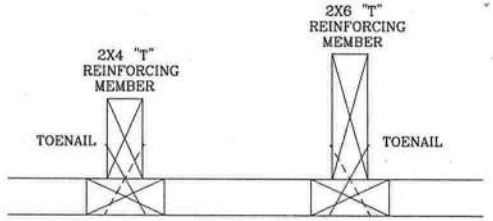
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

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

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

EXAMPLE:





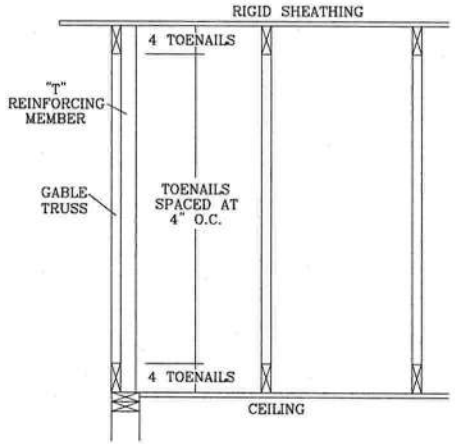
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

WEB LENGTH INCREASE W/ "T" BRACE

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

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



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

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

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

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

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

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

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JAMES R. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

J.J. 08

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

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

ASCE 7-02: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

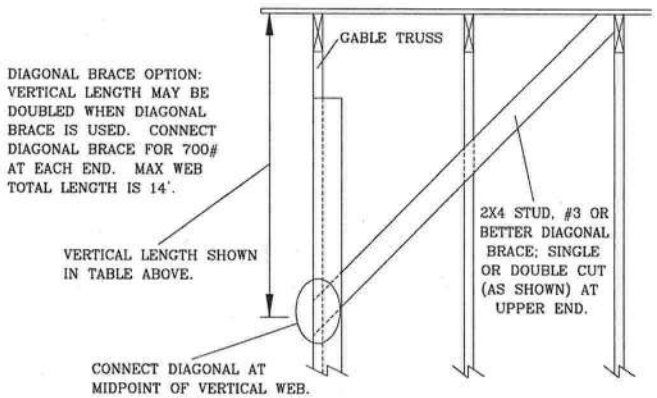
SOUTHERN PINE
#3
STUD
STANDARD

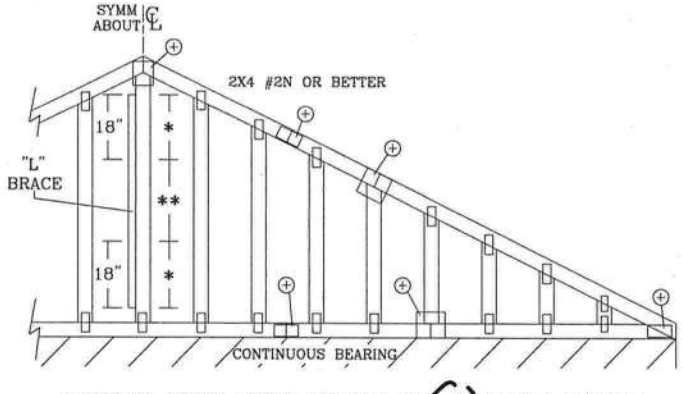
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

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

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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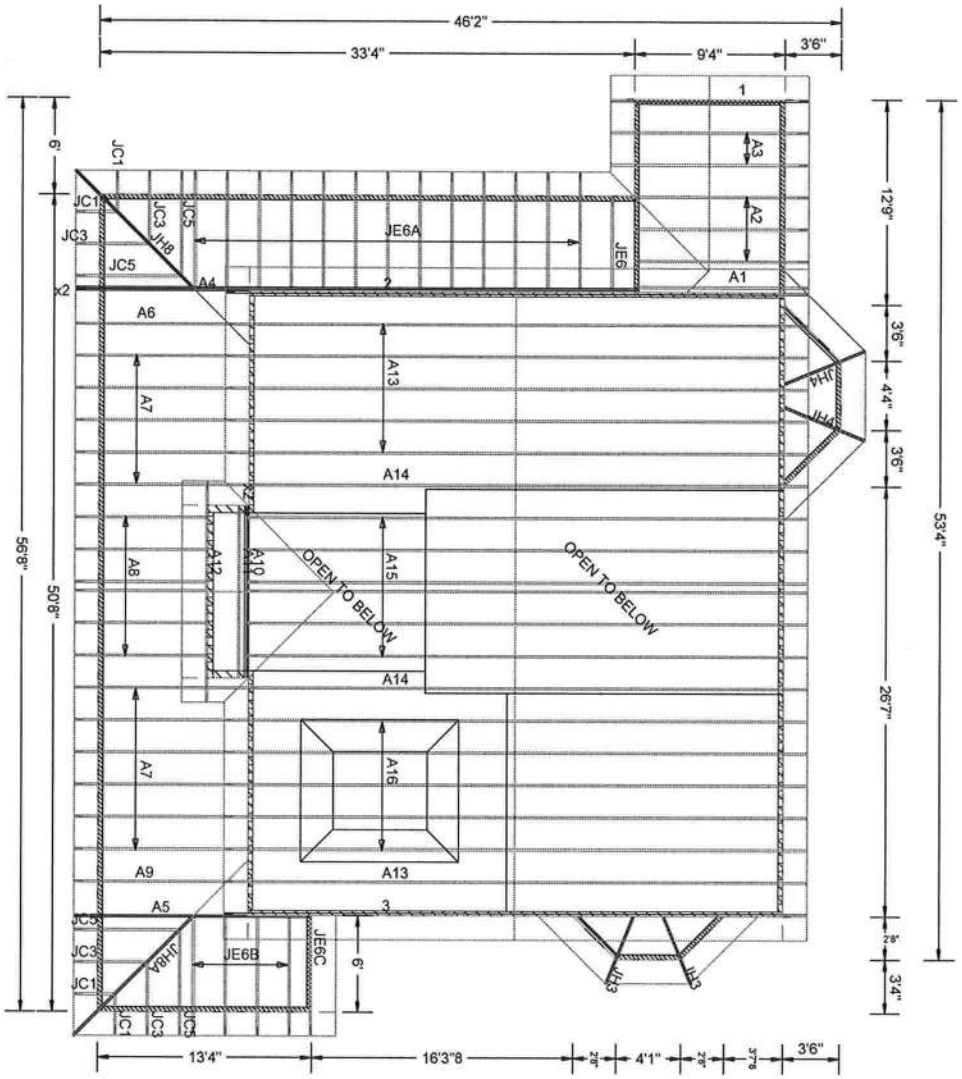
JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Ja... '0...

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11030
DATE	2/23/07
DRWG	A11030EE0207
-ENG	



Roof Plane Sheathing Area = 2810 sq. ft
Gable Sheathing Area = 311 sq. ft
Total Sheathing Area = 3122 sq. ft
Fascia Material = 332 linear ft
Valley Flashing Material = 29 linear ft
Ridge Cap Material = 63 linear ft
Hip Ridge Material = 74 linear ft

VALLEY AREAS TO BE CONVENTIONALLY FRAMED UNLESS OTHERWISE STATED.

ROOF & FLOOR TRUSS QUOTES DO NOT INCLUDE BEAMS, LVLS, AND/OR GLULAMS.

DATE:1/3/08
ROOF PITCH:4/12
PORCHES
6/12 UPPER ROOF
CLG. PITCH:6/12
TRAY MBR
OVERHANG:18"
LOADING:40#s PSF
WIND LOAD:110 MPH
EXT. WALLS:2 X

W.B. HOWLAND
Office:(386)362-1235
Fax: (386)362-7124

IMPORTANT DESIGN NOTE:
(1) SUPPORT FOR PORCH TRUSSES TO BE DETERMINED PRE-BUILD.

PAGE NO: 1 OF 1	JOB NO: 5147	Job Name: TONETTI Customer: Whiddon Construction Designer: Lynn Bell	

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TDU215-Z0103103901

Truss Fabricator:	W.B. Howland
Job Identification:	5147F /TONETTI /Whiddon Construction -- , **
Truss Count:	12
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.38.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - N/A
	Floor - 55.0 PSF @ 1.00 Duration
	Wind - No Wind

Seal Date: 01/03/2008

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Notes:

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

Details: -

#	Ref	Description	Drawing#	Date
1	45821--1		08003001	01/03/08
2	45822--2		08003002	01/03/08
3	45823--F-1		08003003	01/03/08
4	45824--F-2		08003004	01/03/08
5	45825--F-3		08003005	01/03/08
6	45826--F-4		08003006	01/03/08
7	45827--F-5		08003007	01/03/08
8	45828--F-6		08003008	01/03/08
9	45829--F-7		08003009	01/03/08
10	45830--F-8		08003010	01/03/08
11	45831--F-9		08003011	01/03/08
12	45832--F-10		08003012	01/03/08

Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

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

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

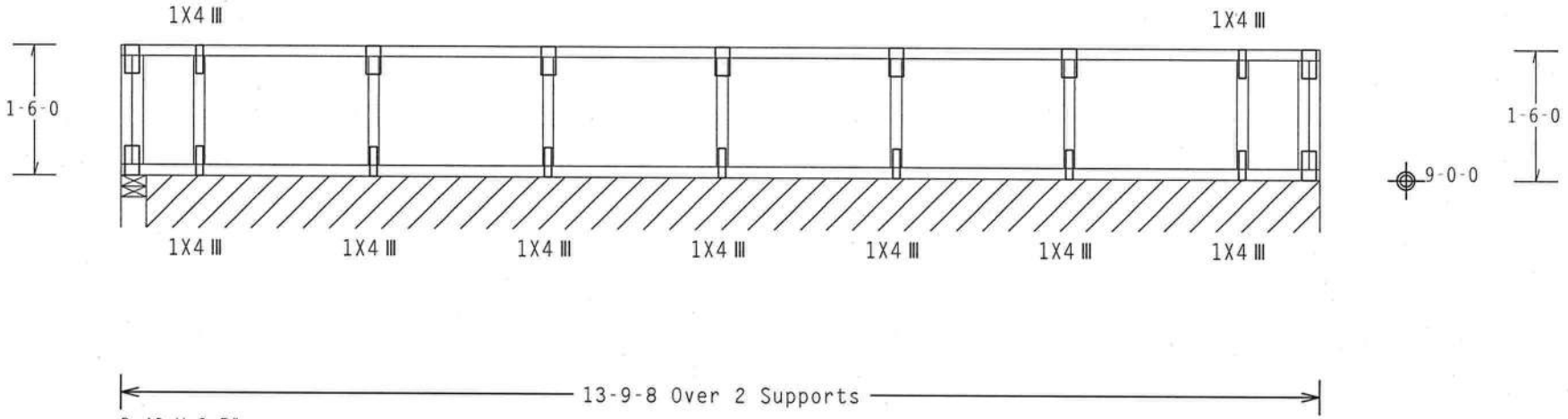
See ANSI/TPI 1-02 Sect 7.5 for additional bracing requirements.

Gable end supports 8" max rake overhang.

Truss must be installed as shown with top chord up.

Fasten rated sheathing to one face of this frame.

The overall height of this truss excluding overhang is 1-6-0.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR. LICENSE No. 52242 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 '08

TC LL	40.0 PSF	REF R215-- 45821
TC DL	10.0 PSF	DATE 01/03/08
BC DL	5.0 PSF	DRW HCUSR215 08003001
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	55.0 PSF	SEQN- 95403
DUR.FAC.	1.00	FROM LRB
SPACING	SEE ABOVE	JREF- 1TDU215_Z01

Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

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

Sheathing is required for any longitudinal(drag) forces. All connections to be designed by the building designer.

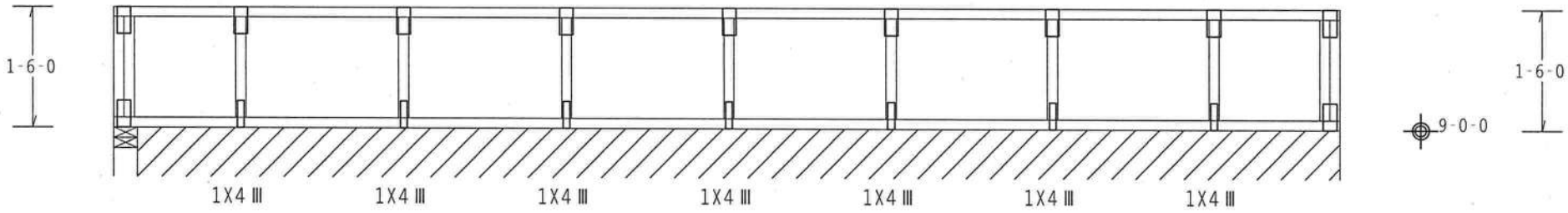
See ANSI/TPI 1-02 Sect 7.5 for additional bracing requirements.

Gable end supports 8" max rake overhang.

Truss must be installed as shown with top chord up.

Fasten rated sheathing to one face of this frame.

The overall height of this truss excluding overhang is 1-6-0.



R=138 W=3.5"
R=200 PLF W=14-10-0

Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan

TC LL	40.0 PSF	REF	R215-- 45822
TC DL	10.0 PSF	DATE	01/03/08
BC DL	5.0 PSF	DRW	HCUSR215 08003002
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	55.0 PSF	SEQN-	95413
DUR.FAC.	1.00	FROM	LRB
SPACING	SEE ABOVE	JREF-	1TDU215_Z01

(5147F-/TONETTI /Whiddon Construction -- , ** - F-1)

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

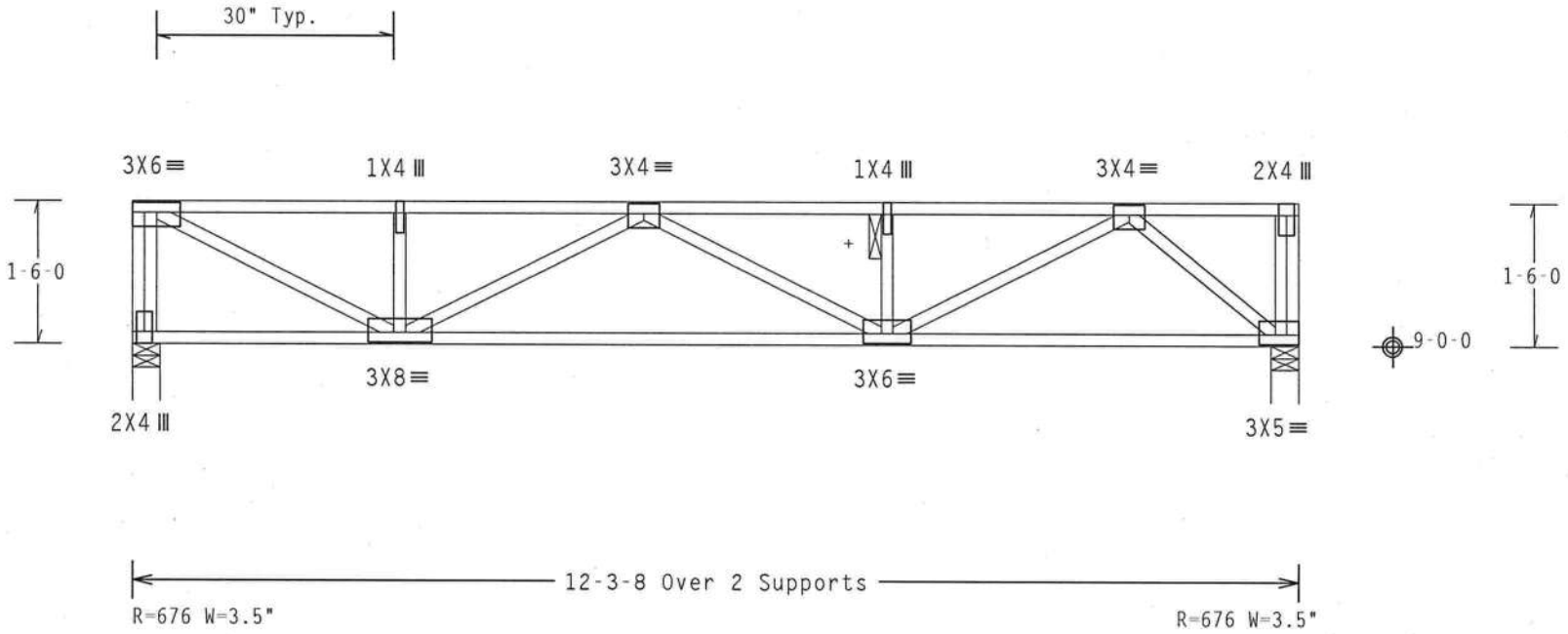
Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

Truss must be installed as shown with top chord up.

+ 2x6 continuous strongback. See ANSI/TPI 1-02 Sect. 7.5.

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

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.10(1.25)/0(0) 7.38.0810.02 QTY:10 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

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Haines City, FL 33844
FL Certificate of Authorization # 0 278

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Jan

TC LL	40.0 PSF	REF	R215-- 45823
TC DL	10.0 PSF	DATE	01/03/08
BC DL	5.0 PSF	DRW	HCUSR215 08003003
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	55.0 PSF	SEQN-	95399
DUR.FAC.	1.00	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z01

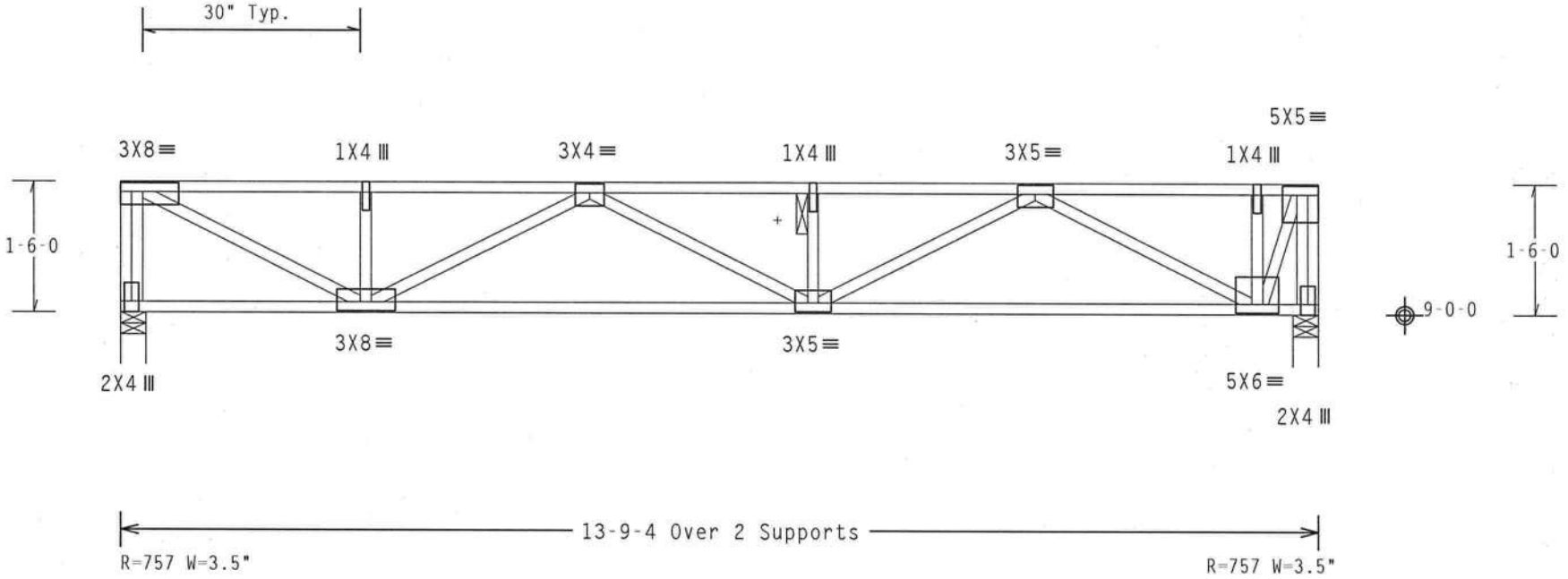
Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

Truss must be installed as shown with top chord up.

+ 2x6 continuous strongback. See ANSI/TPI 1-02 Sect. 7.5.

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

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:5 FL/-/5/-/-/R/- Scale =.5"/Ft.

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ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03,08

TC LL	40.0 PSF	REF	R215-- 45824
TC DL	10.0 PSF	DATE	01/03/08
BC DL	5.0 PSF	DRW	HCUSR215 08003004
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	55.0 PSF	SEQN-	95397
DUR.FAC.	1.00	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z01

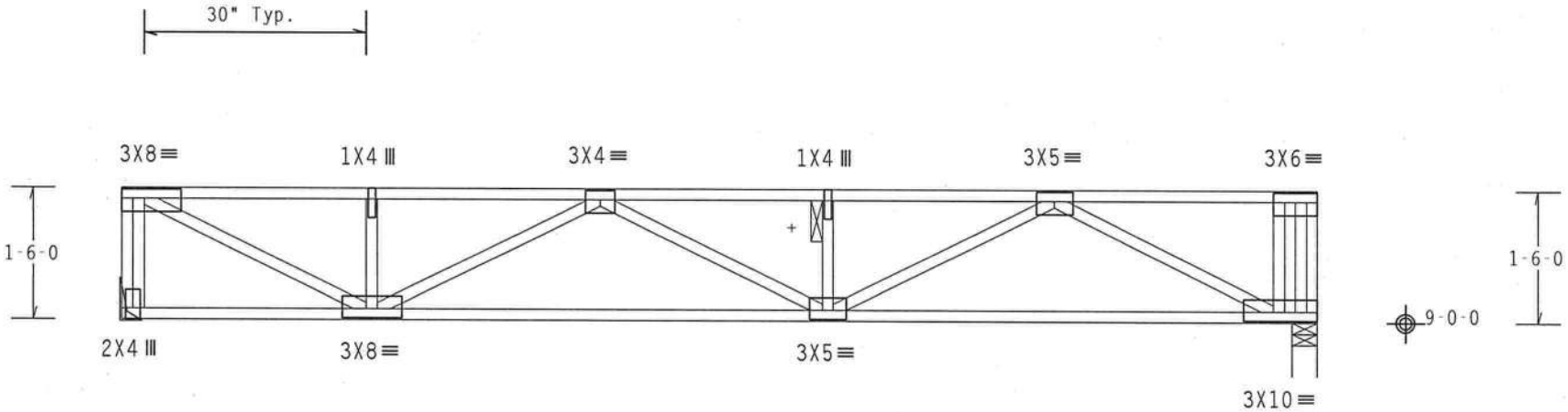
Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

Truss must be installed as shown with top chord up.

+ 2x6 continuous strongback. See ANSI/TPI 1-02 Sect. 7.5.

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

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.10(1.25)/0(0) 7.38.0810 0 QTY:5 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

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Haines City, FL 33844
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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 08

TC LL	40.0 PSF	REF R215-- 45825
TC DL	10.0 PSF	DATE 01/03/08
BC DL	5.0 PSF	DRW HCUSR215 08003005
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	55.0 PSF	SEQN- 95395
DUR.FAC.	1.00	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z01

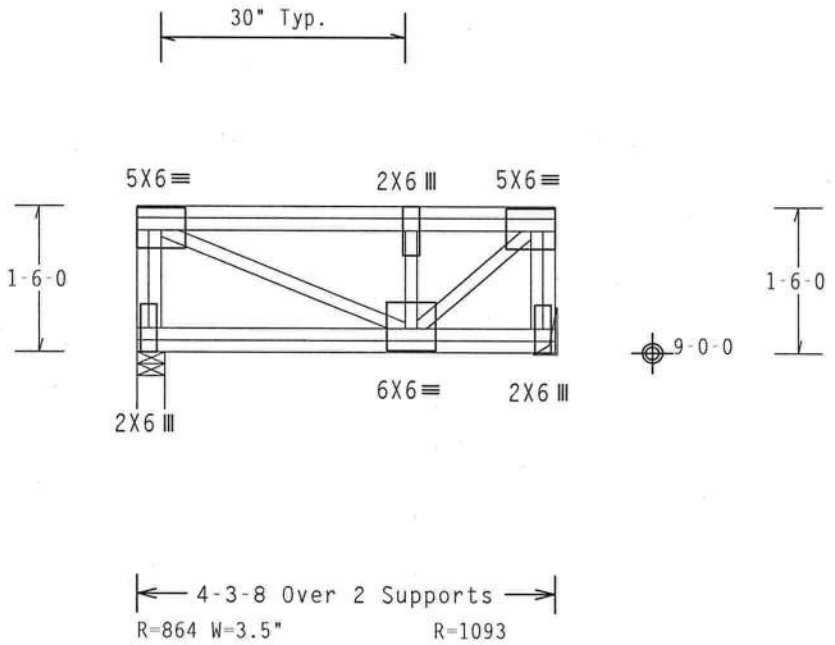
Top chord 4x2 SP #2 Dense
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

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

Truss must be installed as shown with top chord up.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.00 / PLATE DUR.FAC.=1.00)
TC - From 100 PLF at 0.00 to 100 PLF at 4.29
BC - From 10 PLF at 0.00 to 10 PLF at 4.29
TC - 742 LB Conc. Load at 1.44, 3.44

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.10(1.25)/0(0) 7.38.0810.03 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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

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JAMES F. COLLINS LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03,2008

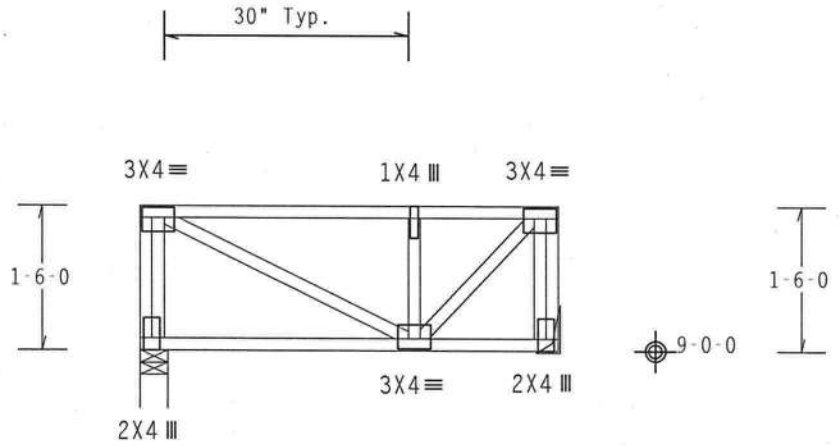
TC LL	40.0 PSF	REF	R215-- 45826
TC DL	10.0 PSF	DATE	01/03/08
BC DL	5.0 PSF	DRW	HCUSR215 08003006
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	55.0 PSF	SEQN-	95427
DUR.FAC.	1.00	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z01

Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

The overall height of this truss excluding overhang is 1-6-0.

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

Truss must be installed as shown with top chord up.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:4 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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Jan 03 08

TC LL	40.0 PSF	REF	R215-- 45827
TC DL	10.0 PSF	DATE	01/03/08
BC DL	5.0 PSF	DRW	HCUSR215 08003007
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	55.0 PSF	SEQN-	95407
DUR.FAC.	1.00	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z01

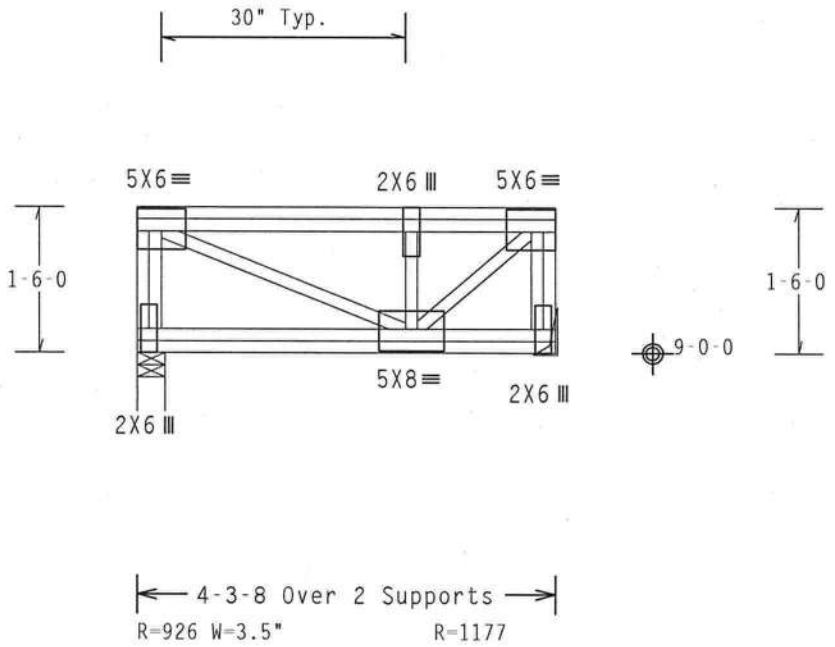
Top chord 4x2 SP #2 Dense
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

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

Truss must be installed as shown with top chord up.

SPECIAL LOADS
-------(LUMBER DUR.FAC.=1.00 / PLATE DUR.FAC.=1.00)
TC - From 100 PLF at 0.00 to 100 PLF at 4.29
BC - From 10 PLF at 0.00 to 10 PLF at 4.29
TC - 816 LB Conc. Load at 1.44, 3.44

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 03 08

TC LL	40.0 PSF	REF	R215-- 45828
TC DL	10.0 PSF	DATE	01/03/08
BC DL	5.0 PSF	DRW	HCUSR215 08003008
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	55.0 PSF	SEQN-	95421
DUR.FAC.	1.00	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z01

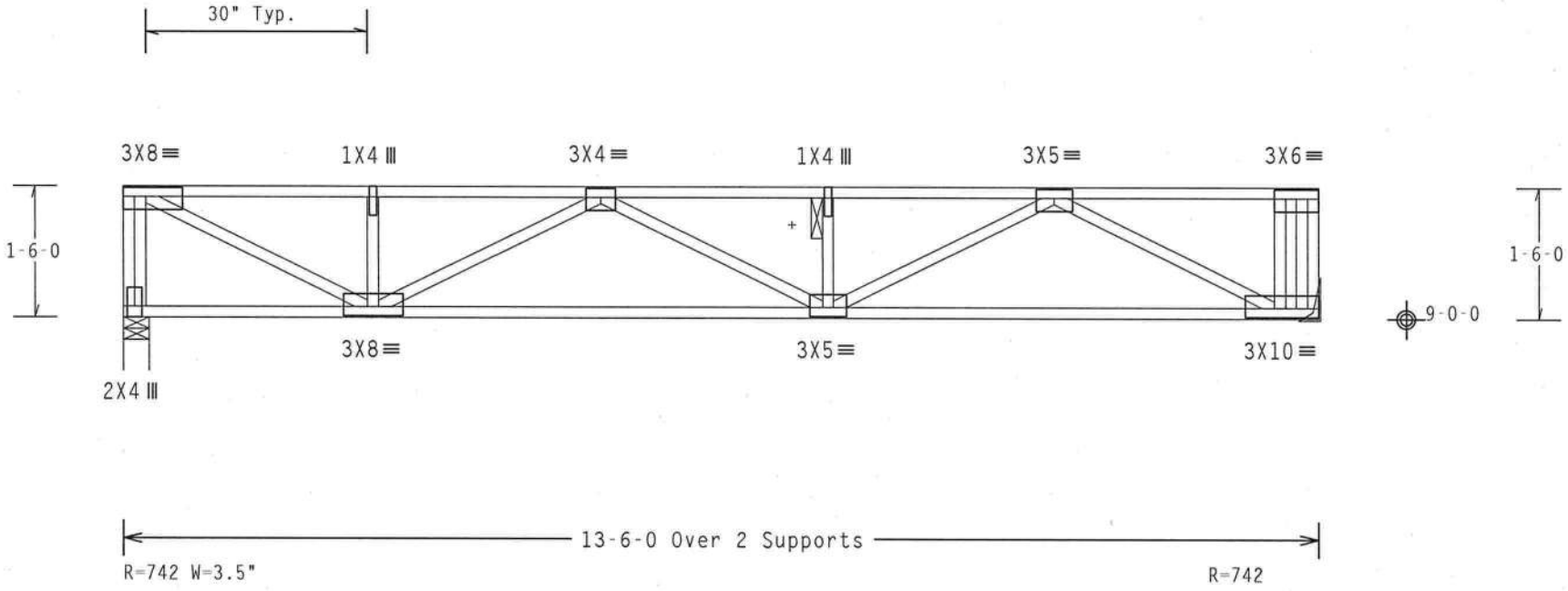
Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

Truss must be installed as shown with top chord up.

+ 2x6 continuous strongback. See ANSI/TPI 1-02 Sect. 7.5.

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

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:2 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 09 08

TC LL	40.0 PSF	REF	R215-- 45829
TC DL	10.0 PSF	DATE	01/03/08
BC DL	5.0 PSF	DRW	HCUSR215 08003009
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	55.0 PSF	SEQN-	95415
DUR.FAC.	1.00	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z01

(5147F-/TONETTI /Whiddon Construction -- , ** - F-8)

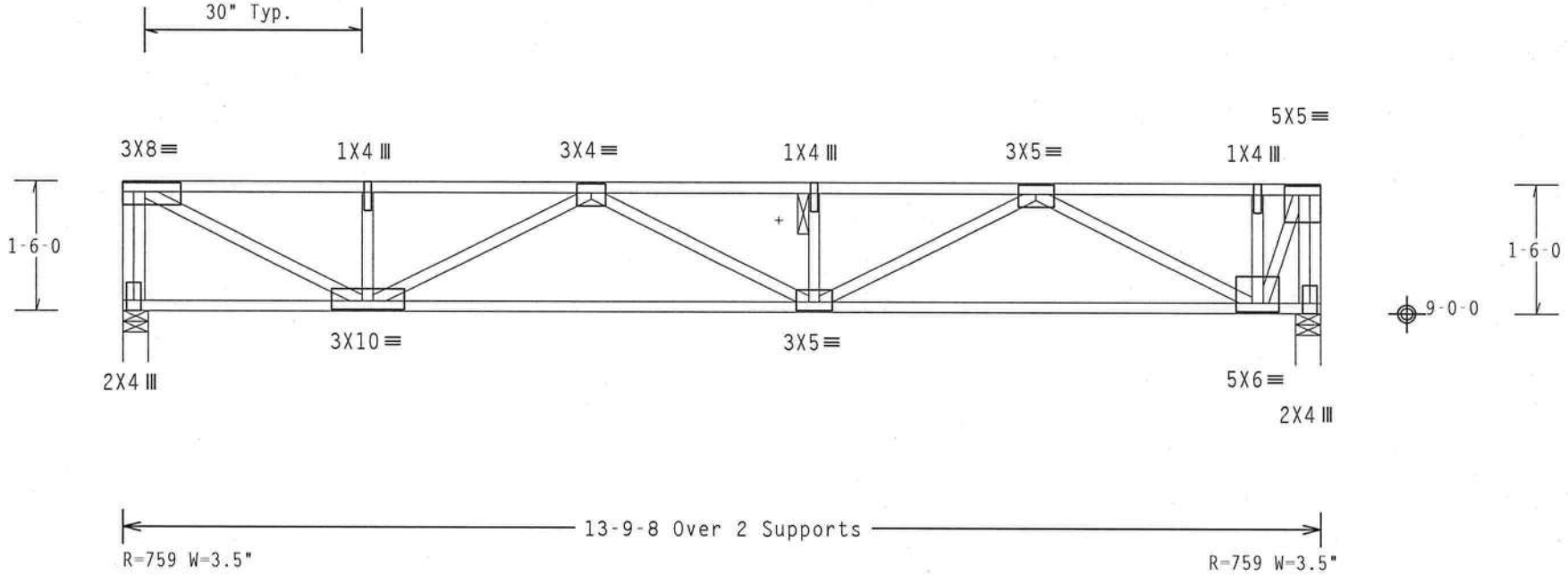
Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

Truss must be installed as shown with top chord up.

+ 2x6 continuous strongback. See ANSI/TPI 1-02 Sect. 7.5.

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

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:5 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 '08

TC LL	40.0 PSF	REF R215-- 45830
TC DL	10.0 PSF	DATE 01/03/08
BC DL	5.0 PSF	DRW HCUSR215 08003010
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	55.0 PSF	SEQN- 95401
DUR.FAC.	1.00	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z01

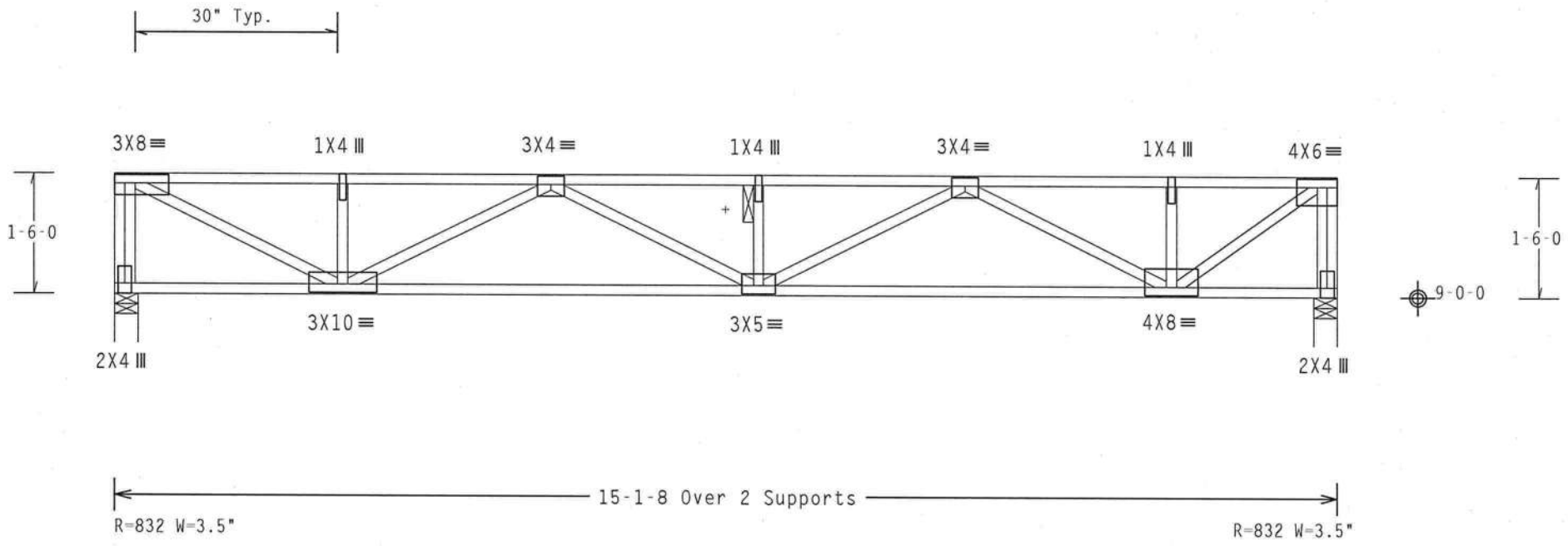
Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

Truss must be installed as shown with top chord up.

+ 2x6 continuous strongback. See ANSI/TPI 1-02 Sect. 7.5.

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

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:5 FL/-/5/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 08

TC LL	40.0 PSF	REF	R215-- 45831
TC DL	10.0 PSF	DATE	01/03/08
BC DL	5.0 PSF	DRW	HCUSR215 08003011
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	55.0 PSF	SEQN-	95411
DUR.FAC.	1.00	FROM	LRB
SPACING	24.0"	JREF-	1TDU215_Z01

(5147F-/TONETTI /Whiddon Construction -- , ** - F-10)

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

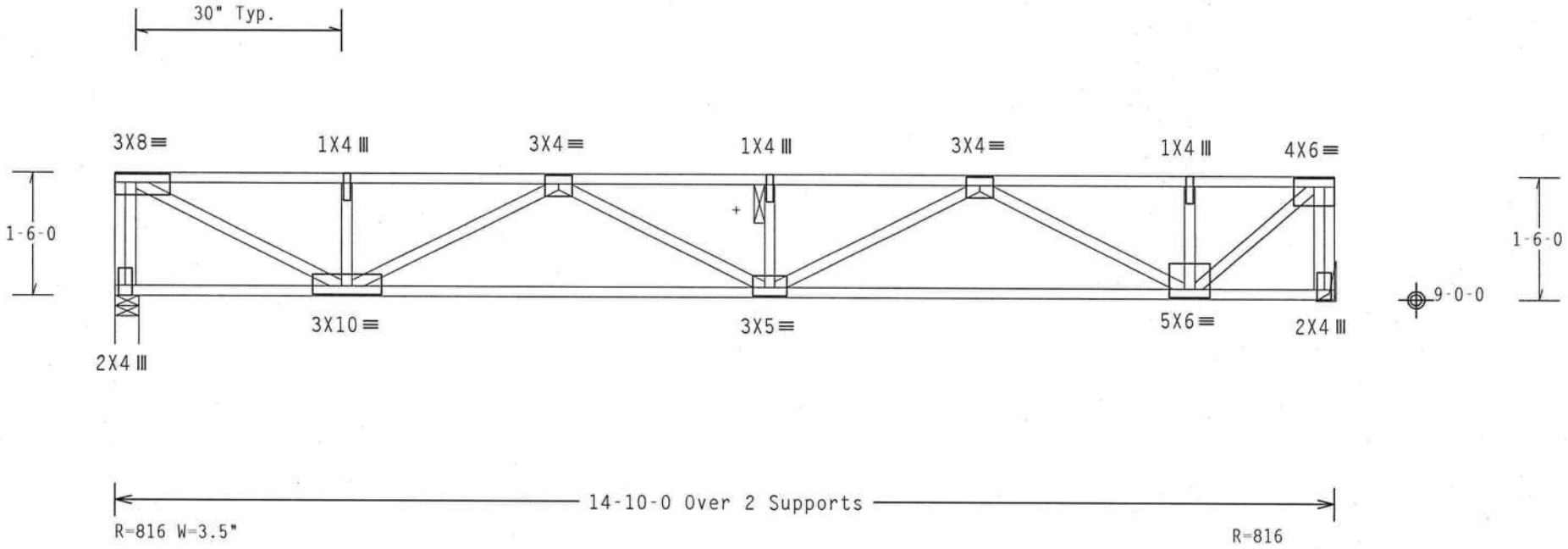
Top chord 4x2 SP #2 N
Bot chord 4x2 SP #2 N
Webs 4x2 SP #2 N

Truss must be installed as shown with top chord up.

+ 2x6 continuous strongback. See ANSI/TPI 1-02 Sect. 7.5.

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

The overall height of this truss excluding overhang is 1-6-0.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.10(1.25)/0(0) 7.38.0810 QTY:2 FL/-/5/-/-/R/- Scale =.5"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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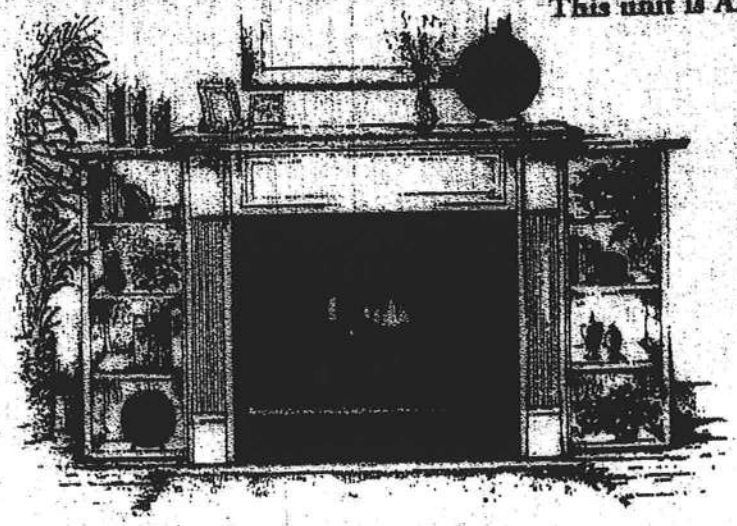
JAMES F. COLLINS JR LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 03 '08

TC LL	40.0 PSF	REF R215-- 45832
TC DL	10.0 PSF	DATE 01/03/08
BC DL	5.0 PSF	DRW HCUSR215 08003012
BC LL	0.0 PSF	HC-ENG WHK/WHK
TOT.LD.	55.0 PSF	SEQN- 95409
DUR.FAC.	1.00	FROM LRB
SPACING	24.0"	JREF- 1TDU215_Z01

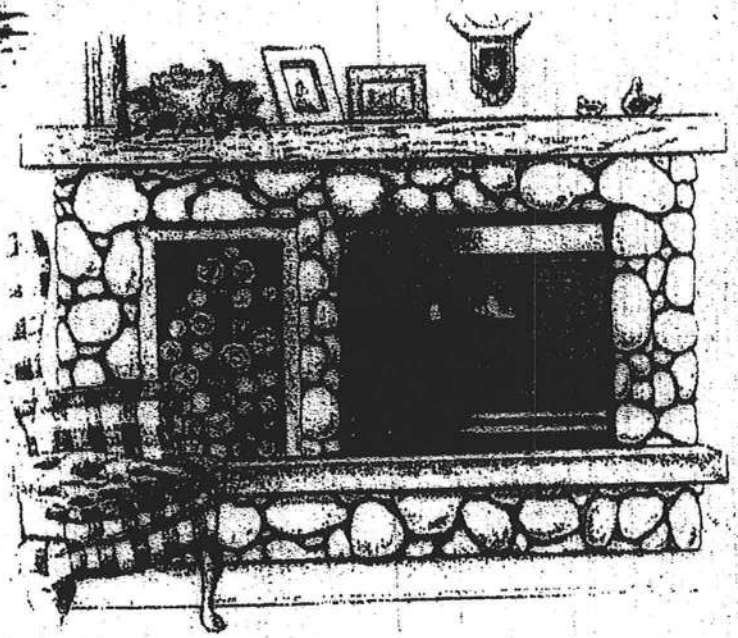
VENT-FREE

This unit is A.G.A. certified as a heater with 99% heat efficiency
No chimney or flue system required
Wide selection of factory installed options offered



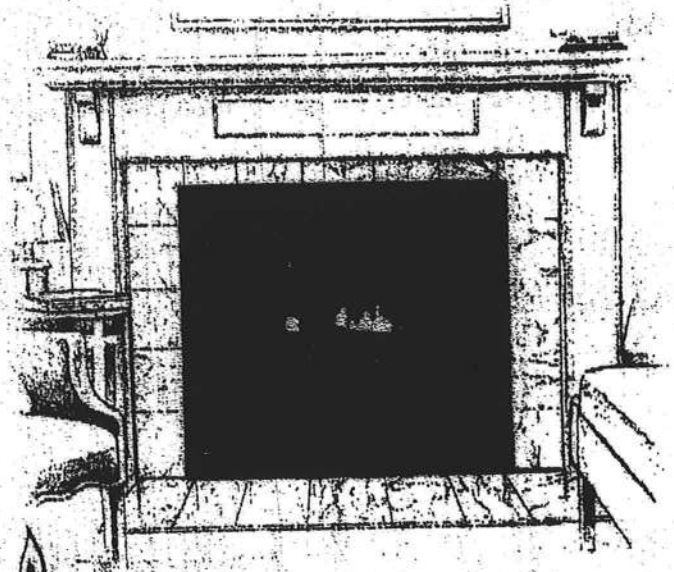
VF-4000

- 14,000 – 25,000 Btu/hr with manual control valve
- 19,500 – 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening



VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers



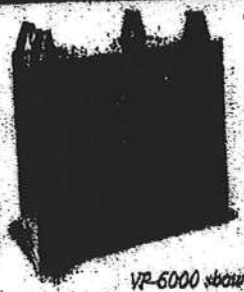
VF-6000

- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

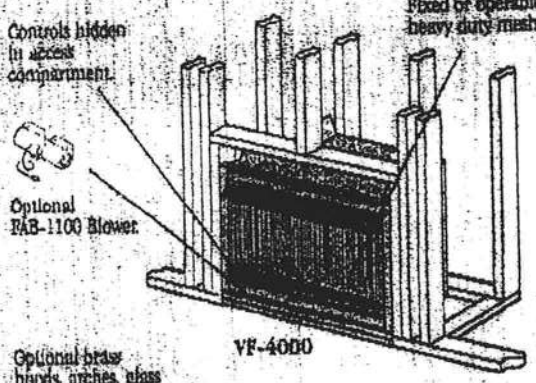
GAS

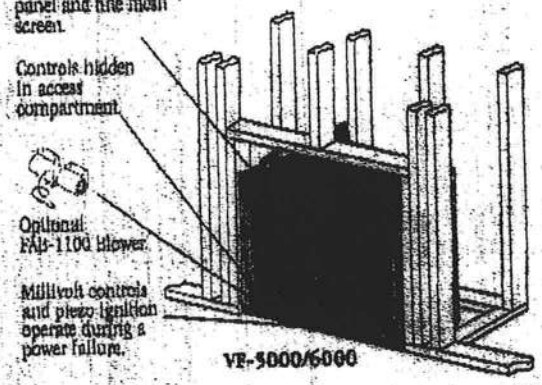
SUPERIOR.

VF-4000/5000/6000



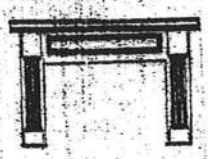
VF-6000 shown.

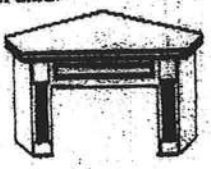




SURROUNDS

The Charleston Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



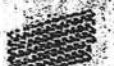


Distributed by:

Refractory tan brick panels

Gas flex liner kit.

Square brass trim kit.

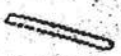


Brass Louver Kit (For VF-4 only)

Screen panel kit. (For VF-5 & VF6 only)

Arch kit. (For VF-5 & VF6 only)

Glass door kit. (For VF-5 & VF6 only)

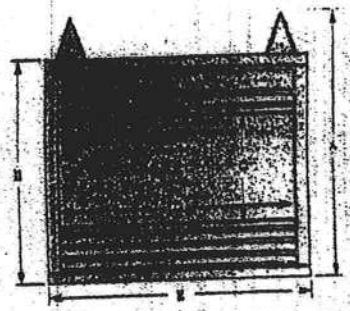


Brass hood. (For VF-5 & VF6 only)

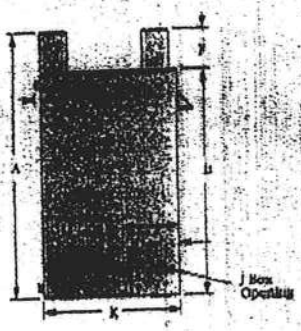
Wall switch or optional wireless remote available. (For VF-4MV, VF-5 & VF-6)

Wall thermostat. (For VF-4MV, VF-5 & VF-6)

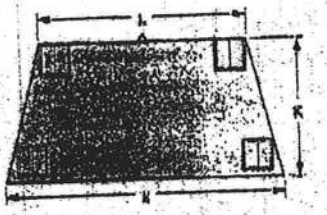
Front View



Left Side View



Top View



Vent-Free Product Dimensions

	VF-4000/5000C	VF-6000C
A		42-1/8"
B	31-1/2"	36-5/8"
C		20"
D	32"	34"
E		40"
F	5-1/2"	5-1/2"
G		1-1/2"
H	3-3/4"	3-3/4"
I		8-1/2"
J	3"	3"
K		19-1/2"
L	27"	28-1/2"

Btu Chart

Model	Natural	Propane
VF-4000 manual	14,000 – 25,000	14,000 – 25,000
VF-4000/5000 millivolt	19,500 – 25,000	19,500 – 25,000
VF-6000	25,000 – 32,000	25,000 – 32,000

Framing Dimension

Model	Width	Height	Depth
VF-4000/5000	37"	37-1/4"	15-1/2"
VF-6000	41"	42-3/8"	19-1/2"

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Built to ANSI Z21.11.2 standard and approved by A.G.A. (report # 1297001?).

Consult your distributor for local fireplace code information.

SUPERIOR

www.LennoxHearthProducts.com

P/N 001464 REV # 2/00

FLORIDA DEPARTMENT OF Community Affairs

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- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

Product Approval
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

FL #	FL5108
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 W Market St Gratz, PA 17030 (717) 365-3300 ext 2101 surich@miwd.com
Authorized Signature	Steven Urich surich@miwd.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	

W) in door

A·L·I
(Validator / Operations Administrator)

AAMA
CERTIFICATION PROGRAM

AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Windows & Doors, Inc.
P.O. Box 370
Gratz, PA 17030-0370

Attn: Bill Emley

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings, by an AAMA Accredited Laboratory.

1. The listing below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAMA/NWWDA 101/I.S. 2-97 H-R55*-36x62					
COMPANY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		
			FRAME	SASH	
MI Windows & Doors, Inc. (Oldsmar, FL) MI Windows & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	185/3185 SH (Fin) (AL)(O/X)(OG) (ASTM)	3'0" x 5'2"	2'10" x 2'7"	By Request

2. This Certification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certified Products Directory.

3. Product Tested and Reported by: Architectural Testing, Inc.

   Report No.: 01-50360.02

   Date of Report: June 14, 2004

NOTE: PLEASE REVIEW, AND ADVISE ALI IMMEDIATELY IF DATA, AS SHOWN, NEEDS CORRECTION.

Date: August 1, 2005

Validated for Certification:

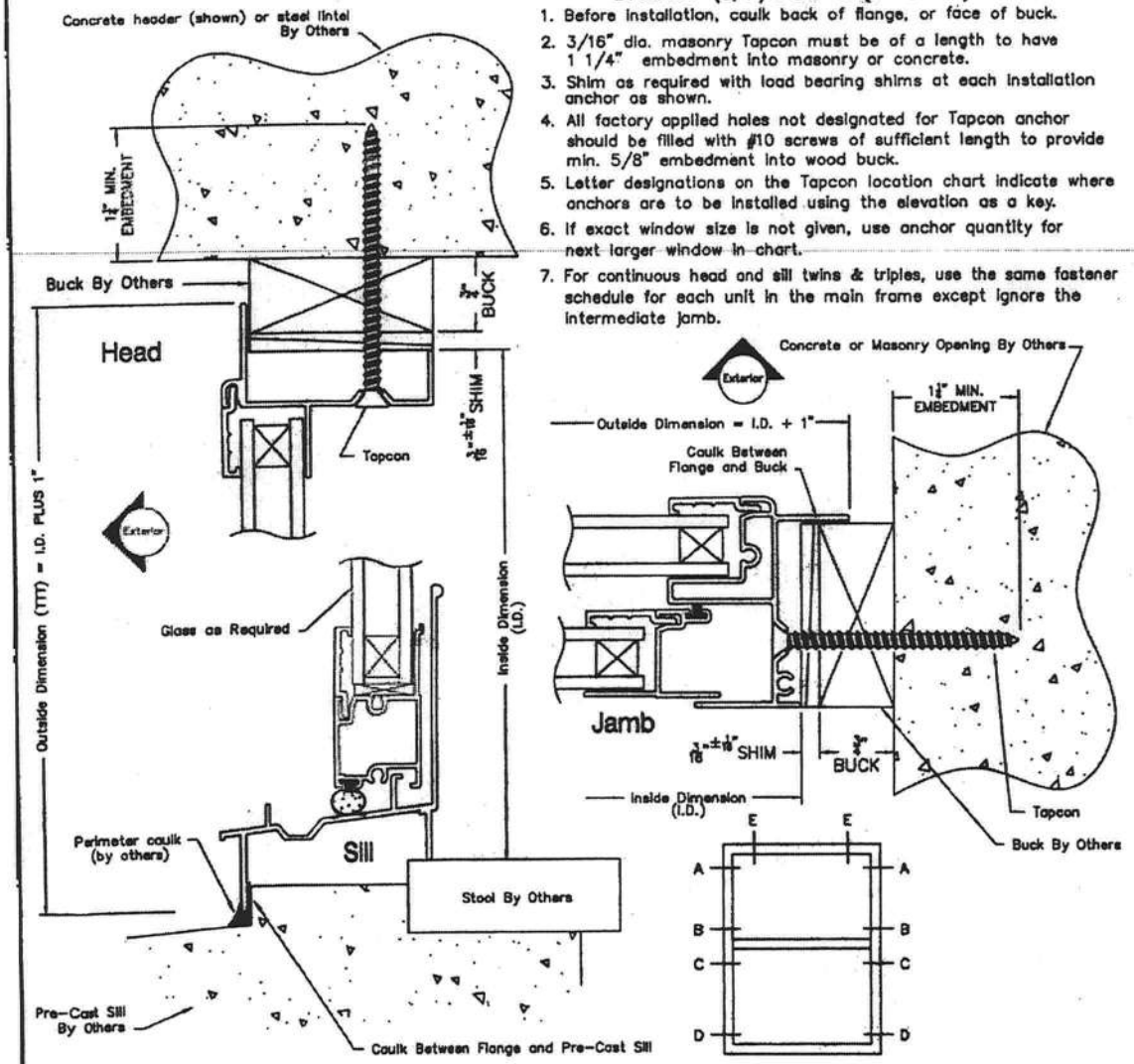
Associated Laboratories, Inc.

Authorized for Certification:

American Architectural Manufacturers Association

cc: AAMA
JGS/df
ACP-04 (Rev. 5/03)

"ONE BY" (3/4") BUCKS (SHOWN)



1. Before installation, caulk back of flange, or face of buck.
2. 3/16" dia. masonry Tapcon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill twins & triples, use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.

*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

SYM	REVISION	DATE	BY
A	REMOVED SILL INSTALLATION ANCHOR SCREWS	7/18/04	BB

"TWO BY" (1 1/2") BUCKS

"TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

HOME PRODUCTS
BetterBilt / Capitol

* TAPCON LOCATION CHART

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS		
		UP TO DP35	DP35.1 TO DP55	DP55.1 TO DP69.3
12	18 1/8 x 25	A, D & E	A, D & E	A, D & E
13	18 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
14	18 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
15	18 1/8 x 62	A, D & E	A, D & E	A, D & E
16	18 1/8 x 71	A, D & E	A, D & E	A, D & E
17	18 1/8 x 83	A, D & E	A, D & E	A, D & E
1/2 32	25 1/2 x 25	A, D & E	A, D & E	A, D & E
1/2 33	25 1/2 x 37 3/8	A, D & E	A, D & E	A, D & E
1/2 34	25 1/2 x 49 5/8	A, D & E	A, D & E	A, D & E
1/2 35	25 1/2 x 62	A, D & E	A, D & E	A, D & E
1/2 36	25 1/2 x 71	A, D & E	A, D & E	A, D & E
1/2 37	25 1/2 x 83	A, D & E	A, D & E	A, C, D & E
22	36 x 25	A, D & E	A, D & E	A, D & E
23	36 x 37 3/8	A, D & E	A, D & E	A, D & E
24	36 x 49 5/8	A, D & E	A, D & E	A, D & E
25	36 x 62	A, D & E	A, D & E	A, D & E
26	36 x 71	A, D & E	A, D & E	A, C, D & E
27	36 x 83	A, D & E	A, C, D & E	A, C, D & E
32	52 1/8 x 25	A, D & E	A, D & E	A, D & E
33	52 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
34	52 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
35	52 1/8 x 62	A, D & E	A, C, D & E	A, C, D & E
36	52 1/8 x 71	A, D & E	A, C, D & E	A, B, C, D & E
37	52 1/8 x 83	A, D & E	A, C, D & E	A, B, C, D & E
2040	23 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
2050	23 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
2060	23 3/8 x 71 5/8	A, D & E	A, D & E	A, D & E
2070	23 3/8 x 83 5/8	A, D & E	A, D & E	A, D & E
3040	35 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
3050	35 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
3060	35 3/8 x 71 5/8	A, D & E	A, D & E	A, C, D & E
3070	35 3/8 x 83 5/8	A, D & E	A, C, D & E	A, C, D & E
4040	47 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
4050	47 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4060	47 3/8 x 71 5/8	A, D & E	A, C, D & E	A, C, D & E
4070	47 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4450	51 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4460	51 3/8 x 71 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4470	51 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E

STATE OF FLORIDA
Product Technology Corporation
P.O. Box No. 4329
Winter Park, Florida 32789

MI HOME PRODUCTS
GRATZ, PA

TITLE: 185/3185 SINGLE HUNG FLANGE FRAME INSTALLATION DETAILS & FASTENER SCHEDULE

PREPARED BY: PTC Product Technology Corporation
Phone 407.622.6334 Fax 407.622.6335

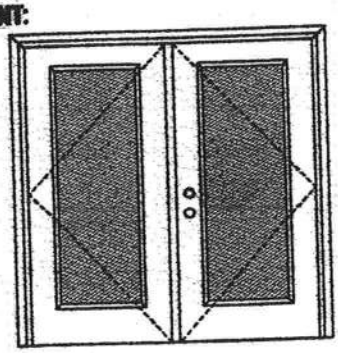
DRWN: DRL	DATE: 06/15/04
SCALE: N.T.S.	DWG. NO: MIHP0059
REV. LETTER: A	SHEET: 1 OF 1

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is 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-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed -- see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series


136 Series

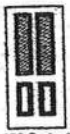

680 Series


822 Series

1/2 GLASS:


105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson™ EntrySystems

March 29, 2002
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PREMDOR Collection Premium Quality Doors

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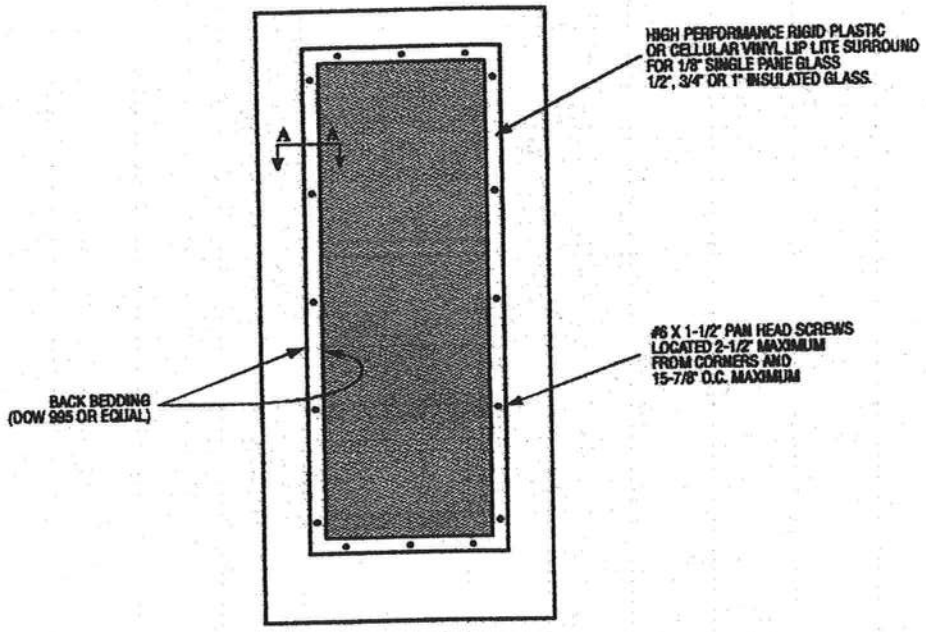
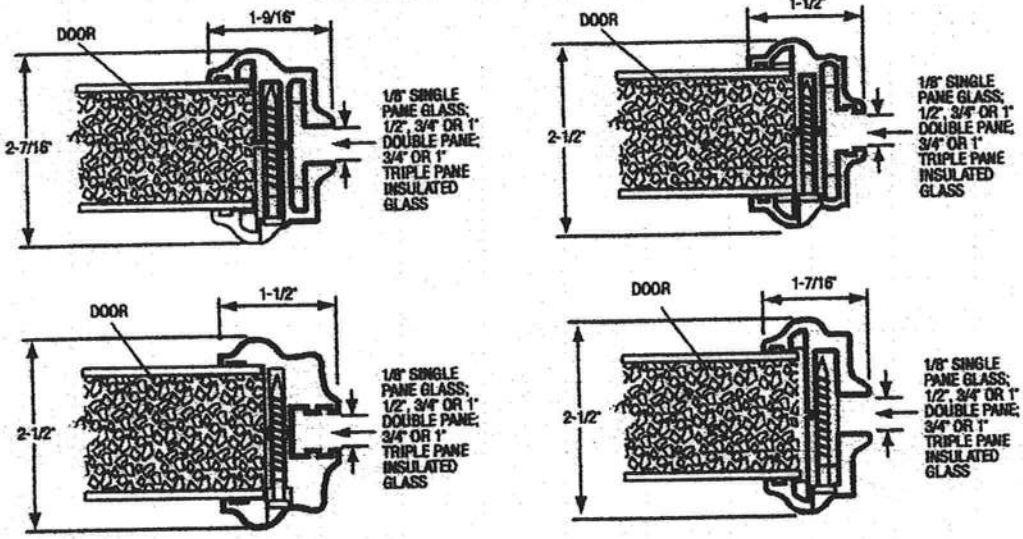
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

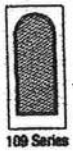
3/4 GLASS:

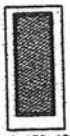

404 Series

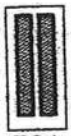

410 Series

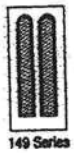

450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

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

Johnson EntrySystems

March 29, 2002
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PREMDOR Collection Premium Quality Doors

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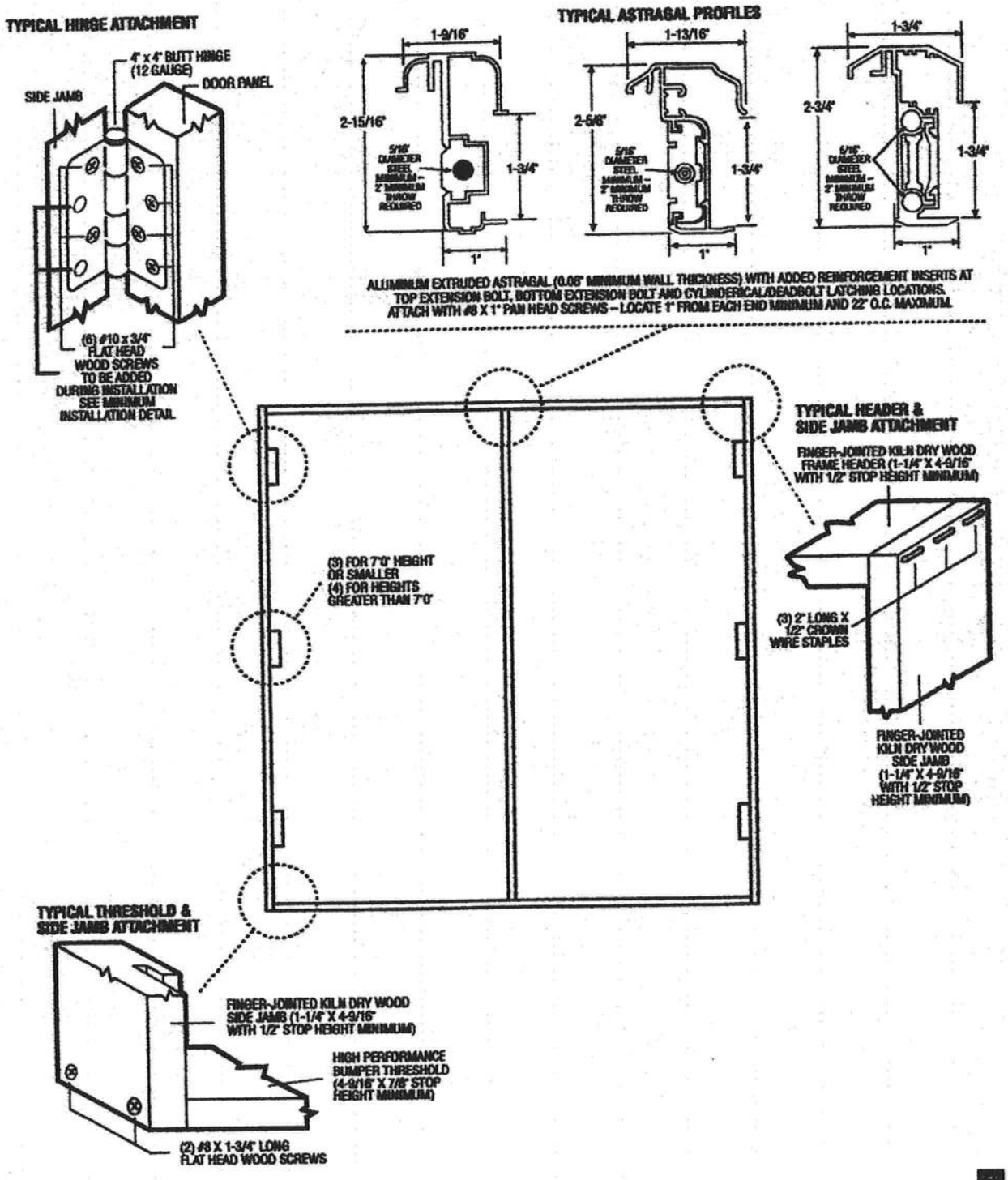
Masonite International Corporation

XX
Unit

MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR



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Masonite International Corporation

March 29, 2002
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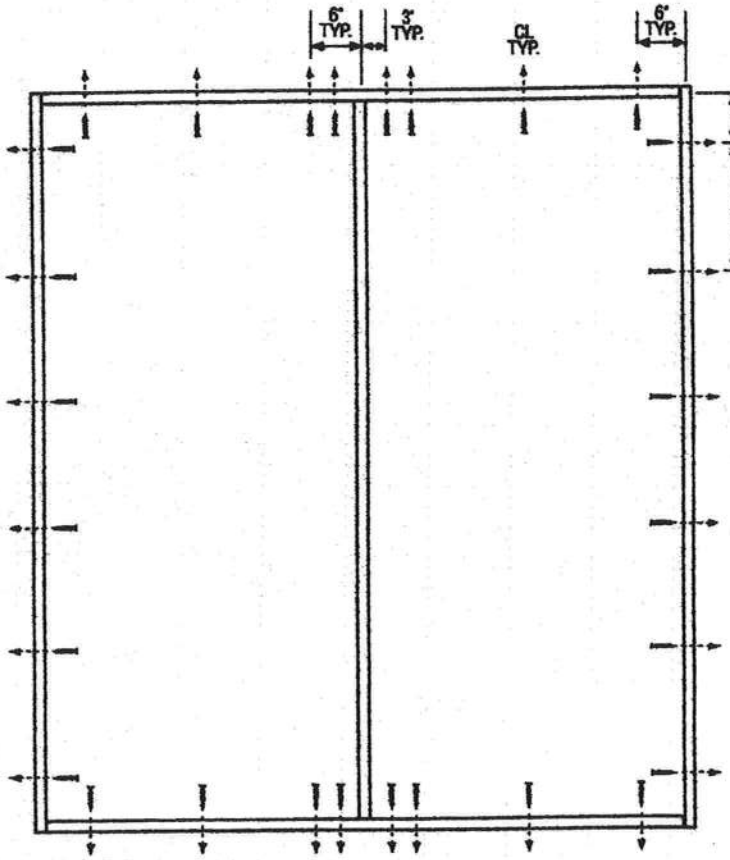
XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylinderical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

FLORIDA DEPARTMENT OF Community Affairs

Product Approval
USER: Public User

FL #	FL1956-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer	TAMKO Building Products, Inc.
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 ext 2394 fred_oconnor@tamko.com
Authorized Signature	Frederick O'Connor fred_oconnor@tamko.com
Technical Representative	Frederick J. O'Connor
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 fred_oconnor@tamko.com

Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Underwriters Laboratories Inc.

Referenced Standard and Year (of Standard)	**Standard**	**Year**
	ASTM D 3462	2001

Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	06/09/2005
Date Validated	06/20/2005
Date Pending FBC Approval	06/25/2005
Date Approved	06/29/2005

Summary of Products

FL #	Model, Number or Name	Description

slopes of 2:12 or greater. Not approved for use in HVHZ.	

Back Next

DCA Administration
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

Underwriters Laboratories Inc.®

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800

June 17, 2005

Tamko Roofing Products
Ms. Kerri Eden
P.O. Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "Heritage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let me know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division

TAMKO BUILDING PRODUCTS

Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENERS

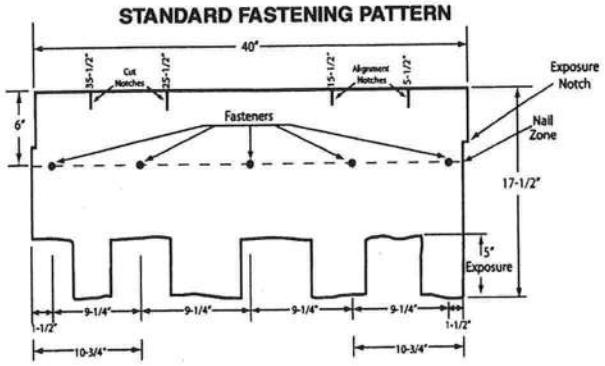
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).

STANDARD FASTENING PATTERN



2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

(Continued)

(CONTINUED from Pg. 1)

TAMKO BUILDING PRODUCTS

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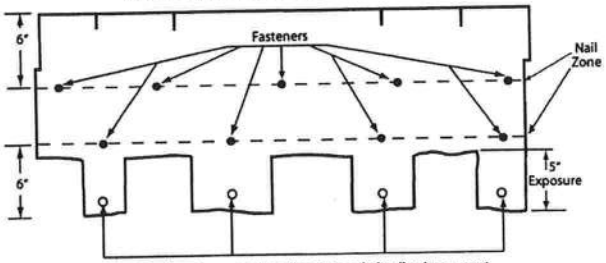
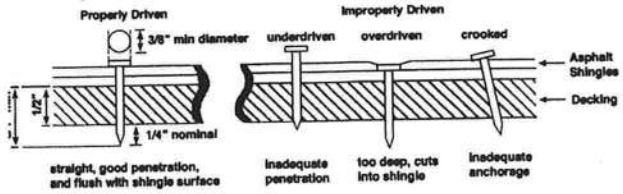
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

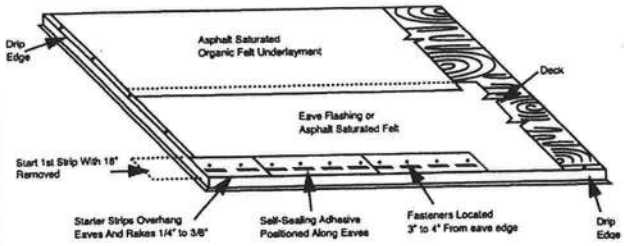
Products which are acceptable for use as underlayment are:

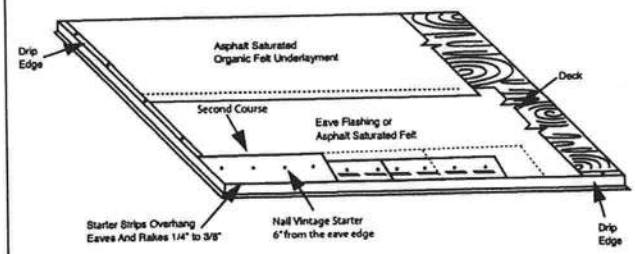
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.
TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.
The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.





Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

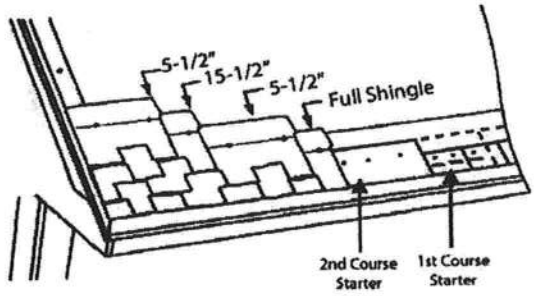
(Continued)

(CONTINUED from Pg. 2)

TAMKO BUILDING PRODUCTS

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION
On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION
TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

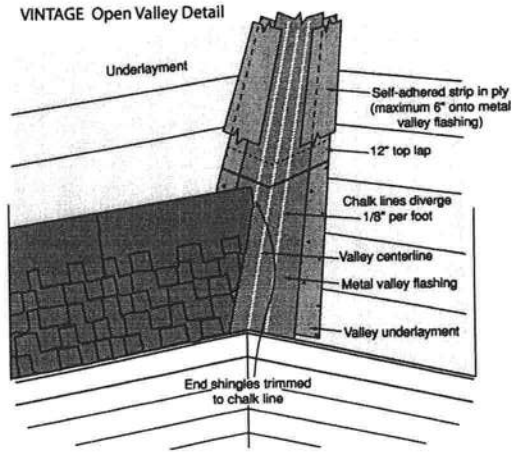
SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)
- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.

- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).

VINTAGE Open Valley Detail



• CAUTION:
Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

(CONTINUED from Pg. 3)

TAMKO BUILDING PRODUCTS

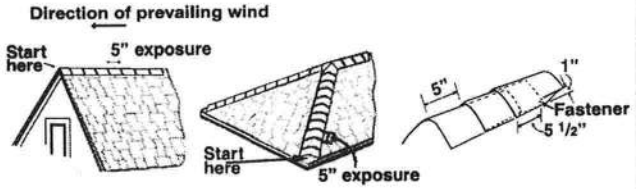
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

Fasteners should be 1/4 in. longer than the ones used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



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Residential System Sizing Calculation

Summary

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
Tonetti New Home

Code Only
Professional Version
Climate: South

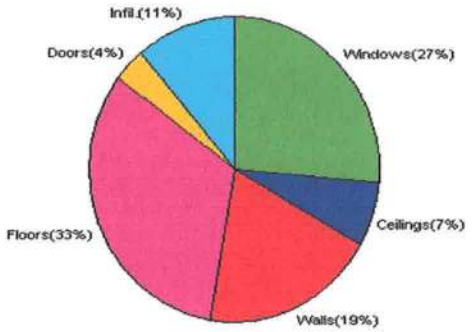
1/11/2008

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**42987**	**Btuh**	**Total cooling load calculation**	**30178**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	104.7	45000	Sensible (SHR = 0.75)	124.0	33750
Heat Pump + Auxiliary(0.0kW)	104.7	45000	Latent	378.7	11250
			Total (Electric Heat Pump)	149.1	45000

WINTER CALCULATIONS

Winter Heating Load (for 2475 sqft)

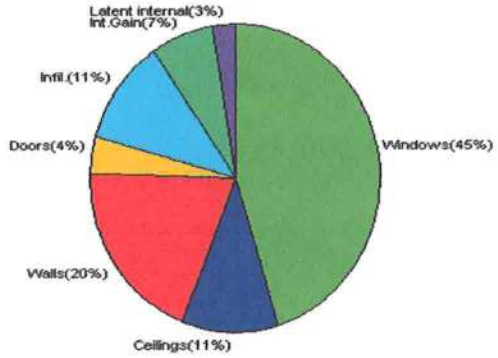
Load component			Load	
Window total	412	sqft	11433	Btuh
Wall total	2384	sqft	8368	Btuh
Door total	120	sqft	1549	Btuh
Ceiling total	2475	sqft	2916	Btuh
Floor total	See detail report		14059	Btuh
Infiltration	115	cfm	4662	Btuh
Duct loss			0	Btuh
Subtotal			**42987**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**42987**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2475 sqft)

Load component			Load	
Window total	412	sqft	13596	Btuh
Wall total	2384	sqft	5903	Btuh
Door total	120	sqft	1172	Btuh
Ceiling total	2475	sqft	3311	Btuh
Floor total			0	Btuh
Infiltration	59	cfm	1105	Btuh
Internal gain			2120	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**27207**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			2171	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			800	Btuh
Total latent gain			**2971**	**Btuh**
TOTAL HEAT GAIN			**30178**	**Btuh**



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Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: _____

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
Tonetti New Home

Code Only
Professional Version
Climate: South

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

1/11/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Tint, TIM, 0.75	N	54.0	27.8	1498 Btuh
2	2, Tint, TIM, 0.75	N	8.0	27.8	222 Btuh
3	2, Tint, TIM, 0.75	N	15.0	27.8	416 Btuh
4	2, Tint, TIM, 0.75	W	108.0	27.8	2997 Btuh
5	2, Tint, TIM, 0.75	W	75.0	27.8	2081 Btuh
6	2, Tint, TIM, 0.75	E	135.0	27.8	3746 Btuh
7	2, Tint, TIM, 0.75	E	8.0	27.8	222 Btuh
8	2, SHGC=0.4, TIM, 0.75	E	9.0	27.8	250 Btuh
	Window Total		412(sqft)		11433 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	11.0	2384	3.5	8368 Btuh
	Wall Total		2384		8368 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		42	12.9	544 Btuh
2	Insulated - Exterior		42	12.9	544 Btuh
3	Insulated - Exterior		36	12.9	461 Btuh
	Door Total		120		1549Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shin	30.0	2475	1.2	2916 Btuh
	Ceiling Total		2475		2916Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	178.0 ft(p)	43.7	7771 Btuh
2	Slab On Grade	0	144.0 ft(p)	43.7	6287 Btuh
	Floor Total		322		14059 Btuh
			Envelope Subtotal:		38325 Btuh

Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	
	Natural	0.31	22275	2384	26.1	4662 Btuh
Ductload				(DLM of 0.000)		0 Btuh
All Zones			**Sensible Subtotal All Zones**			**42987 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
Tonetti New Home

Code Only
Professional Version
Climate: South

1/11/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	42987 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	42987 Btuh

EQUIPMENT

1. Electric Heat Pump	#	45000 Btuh

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)

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System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
Tonetti New Home

Code Only
Professional Version
Climate: South

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

1/11/2008

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Tint, TIM, 0.75	N	54.0	27.8	1498 Btuh
2	2, Tint, TIM, 0.75	N	8.0	27.8	222 Btuh
3	2, Tint, TIM, 0.75	N	15.0	27.8	416 Btuh
4	2, Tint, TIM, 0.75	W	108.0	27.8	2997 Btuh
5	2, Tint, TIM, 0.75	W	75.0	27.8	2081 Btuh
6	2, Tint, TIM, 0.75	E	135.0	27.8	3746 Btuh
7	2, Tint, TIM, 0.75	E	8.0	27.8	222 Btuh
8	2, SHGC=0.4, TIM, 0.75	E	9.0	27.8	250 Btuh
	Window Total		412(sqft)		11433 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	11.0	2384	3.5	8368 Btuh
	Wall Total		2384		8368 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		42	12.9	544 Btuh
2	Insulated - Exterior		42	12.9	544 Btuh
3	Insulated - Exterior		36	12.9	461 Btuh
	Door Total		120		1549Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shin	30.0	2475	1.2	2916 Btuh
	Ceiling Total		2475		2916Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	178.0 ft(p)	43.7	7771 Btuh
2	Slab On Grade	0	144.0 ft(p)	43.7	6287 Btuh
	Floor Total		322		14059 Btuh
			Zone Envelope Subtotal:		38325 Btuh

Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	
	Natural	0.31	22275	2384	26.1	1056 Btuh
Ductload	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond.)(DLM of 0.000)					0 Btuh
Zone #1	**Sensible Zone Subtotal**					**39381 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
Tonetti New Home

Code Only
Professional Version
Climate: South

1/11/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	42987 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	42987 Btuh

EQUIPMENT

1. Electric Heat Pump	#	45000 Btuh

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)

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System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
Tonetti New Home

Code Only
Professional Version
Climate: South

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/11/2008

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Tint, 0.75, B-M, N,H	N	1.33	8ft.	54.0	0.0	54.0	15	15	837 Btuh
2	2, Tint, 0.75, B-M, N,H	N	1.33	3ft.	8.0	0.0	8.0	15	15	124 Btuh
3	2, Tint, 0.75, B-M, N,H	N	0ft.	0ft.	15.0	0.0	15.0	15	15	232 Btuh
4	2, Tint, 0.75, B-M, N,H	W	0ft.	0ft.	108.0	0.0	108.0	15	37	4005 Btuh
5	2, Tint, 0.75, B-M, N,H	W	0ft.	0ft.	75.0	0.0	75.0	15	37	2781 Btuh
6	2, Tint, 0.75, B-M, N,H	E	0ft.	0ft.	135.0	0.0	135.0	15	37	5007 Btuh
7	2, Tint, 0.75, B-M, N,H	E	0ft.	0ft.	8.0	0.0	8.0	15	37	297 Btuh
8	2, SHGC=0.4, 0.75, B-M, N,H	E	0ft.	0ft.	9.0	0.0	9.0	15	35	313 Btuh
	Window Total				412 (sqft)					13596 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	11.0/0.09	2384.0	2.5	5903 Btuh
	Wall Total		2384 (sqft)		5903 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	42.0	9.8	412 Btuh
2	Insulated - Exterior	42.0	9.8	412 Btuh
3	Insulated - Exterior	35.6	9.8	349 Btuh
	Door Total	120 (sqft)		1172 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/Light/Shingle	30.0	2475.0	1.3	3311 Btuh
	Ceiling Total		2475 (sqft)		3311 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	178 (ft(p))	0.0	0 Btuh
2	Slab On Grade	0.0	144 (ft(p))	0.0	0 Btuh
	Floor Total		322.0 (sqft)		0 Btuh

			Envelope Subtotal:		23982 Btuh
Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.16	22275	2384	26.1	1105 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		4	X 230	+	1200	2120 Btuh
				Sensible Envelope Load:		27207 Btuh
Duct load				(DGM of 0.000)		0 Btuh
				Sensible Load All Zones		**27207 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
Tonetti New Home

Code Only
Professional Version
Climate: South

1/11/2008

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**27207 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**27207 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**27207 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	2171 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**2971 Btuh**
	TOTAL GAIN	**30178 Btuh**

EQUIPMENT

1. Central Unit/Pkg	#	45000 Btuh

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

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System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Vincent and Christy Tonetti
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Climate: South

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/11/2008

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Tint, 0.75, B-M, N,H	N	1.33	8ft.	54.0	0.0	54.0	15	15	837 Btuh
2	2, Tint, 0.75, B-M, N,H	N	1.33	3ft.	8.0	0.0	8.0	15	15	124 Btuh
3	2, Tint, 0.75, B-M, N,H	N	0ft.	0ft.	15.0	0.0	15.0	15	15	232 Btuh
4	2, Tint, 0.75, B-M, N,H	W	0ft.	0ft.	108.0	0.0	108.0	15	37	4005 Btuh
5	2, Tint, 0.75, B-M, N,H	W	0ft.	0ft.	75.0	0.0	75.0	15	37	2781 Btuh
6	2, Tint, 0.75, B-M, N,H	E	0ft.	0ft.	135.0	0.0	135.0	15	37	5007 Btuh
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8	2, SHGC=0.4, 0.75, B-M, N,H	E	0ft.	0ft.	9.0	0.0	9.0	15	35	313 Btuh
	Window Total				412 (sqft)					13596 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	11.0/0.09	2384.0	2.5	5903 Btuh
	Wall Total		2384 (sqft)		5903 Btuh

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	Door Total	120 (sqft)		1172 Btuh

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	Ceiling Total		2475 (sqft)		3311 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	178 (ft(p))	0.0	0 Btuh
2	Slab On Grade	0.0	144 (ft(p))	0.0	0 Btuh
	Floor Total		322.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		23982 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.16	22275	2384	13.5	250 Btuh

Internal gain		Occupants		Btuh/occupant		Appliance	Load
		4	X	230	+	1200	2120 Btuh

	Sensible Envelope Load:		26352 Btuh

Duct load	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond)	(DGM of 0.000)	0 Btuh
	Sensible Zone Load		**26352 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
Tonetti New Home

Code Only
Professional Version
Climate: South

1/11/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**27207 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**27207 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**27207 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	2171 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**2971 Btuh**
	TOTAL GAIN	**30178 Btuh**

EQUIPMENT

1. Central Unit/Pkg	#	45000 Btuh

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

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Residential Window Diversity

MidSummer

Vincent and Christy Tonetti
394 NW Carr Ct.
Lake City, FL 32055-

Project Title:
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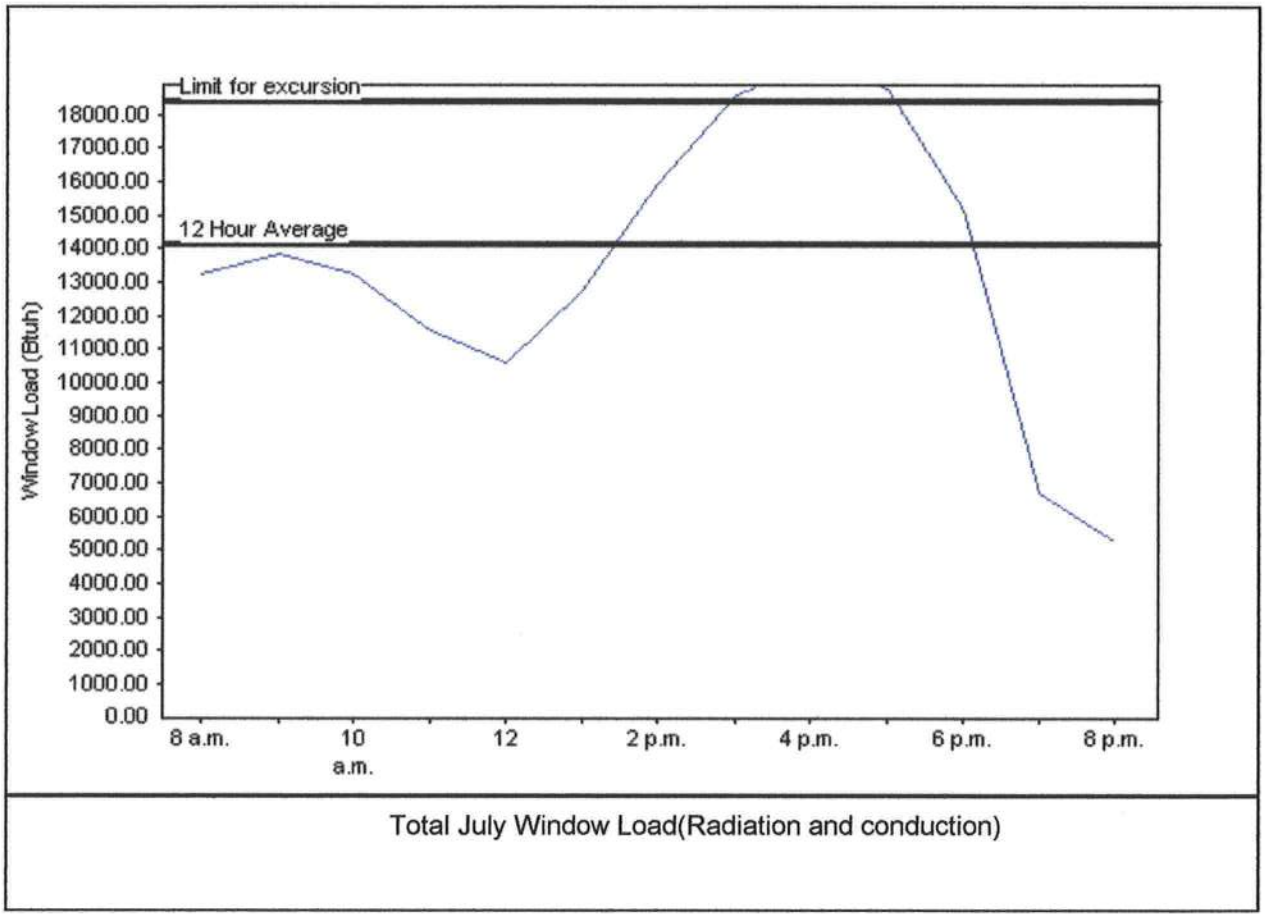
Climate: South

1/11/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	14141 Btu
Summer setpoint	75 F	Peak window load for July	19485 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	18383 Btu
Latitude	29 North	Window excursion (July)	1102 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: _____
DATE: _____