DATE 01/31/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026698

APPLICANT DION TAYLOR PHONE 386.288.5087

ADDRESS POB 3311 LAKE CITY FL 32056

OWNER KEITH THOMPSON PHONE

ADDRESS 467 SW DIAMOND COURT LAKE CITY FL 32025

CONTRACTOR DION TAYLOR PHONE 386.288.5087

LOCATION OF PROPERTY 90-W TO C-252,TL GO 5 MILES TO MAYO ROAD,TR TO DIAMOND CT,TR @ THE END OF ROAD.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 78000.00

HEATED FLOOR AREA 1500.00 TOTAL AREA 1560.00 HEIGHT 18.00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 5'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

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

NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 01-4S-15-00314-012 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 10.00

		R282811337		
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
PRIVATE	08-0049	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD. SOUTH 5 ACRES DEDICATED TO HOUSE.

Check # or Cash 1501

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 $ 390.00 CERTIFICATION FEE $ 7.80 SURCHARGE FEE $ 7.80

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** 480.60

INSPECTORS OFFICE _____ CLERKS OFFICE MSG

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.

This Instrument Prepared by & return to:
Name: ***NANCY AMY MURPHY, an employee of TITLE OFFICES, LLC***
Address: ***1089 SW MAIN BLVD. LAKE CITY, FLORIDA 32025***
File No. 05Y-02157NM

Parcel I.D. #: ***00314-012***

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

THIS WARRANTY DEED *Made the 7th day of March, A.D. 2005, by* ***SEAN M. KEENAN*** *and* ***LYNDA SUE KEENAN****, HIS WIFE, hereinafter called the grantors, to* ***KEITH THOMPSON****, MARRIED, whose post office address is* ~~***232 BERMUDA BEACH DRIVE, FORT PIERCE, FLORIDA 34949***~~ *and* ***AGATHA THOMPSON****, SINGLE,* ***AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP,*** *whose post office address is* ***63 BARBEY STREET, BROOKLYN, NEW YORK 11207,*** *hereinafter called the grantees:*

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

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

LOT NO. 7

TOWNSHIP 4 SOUTH, RANGE 15 EAST

SECTION 1: BEGIN AT THE NORTHWEST CORNER OF THE EAST ½ OF THE SE ¼ OF THE NE ¼ OF SECTION 1, TOWNSHIP 4 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA AND RUN N 89°07'00" E, ALONG THE NORTH LINE OF SAID E ½ OF THE SE ¼ OF NE ¼ A DISTANCE OF 197.79 FEET TO THE NORTHWEST CORNER OF A FIVE ACRE PARCEL OF LAND; THENCE S 00°03'02" W ALONG THE WEST LINE OF SAID FIVE ACRE PARCEL OF LAND, BEING PARALLEL TO THE EAST LINE OF SAID SECTION 1 A DISTANCE OF 466.69 FEET TO THE SOUTHWEST CORNER OF SAID FIVE ACRE PARCEL OF LAND; THENCE N 89°07'00" E ALONG THE SOUTH LINE OF SAID FIVE ACRE PARCEL OF LAND, BEING PARALLEL TO THE NORTH LINE OF SAID E ½ OF SE ¼ OF NE ¼ A DISTANCE OF 415.10 FEET TO A POINT ON A LINE LYING 51.59 FEET WEST OF AND PARALLEL TO THE EAST LINE OF SAID SECTION 1; THENCE S 00°03'02" W ALONG SAID LINE 561.17 FEET; THENCE S 89°05'53" W PARALLEL TO THE SOUTH LINE OF SAID E ½ OF SE ¼ OF NE ¼ A DISTANCE OF 613.31 FEET TO A POINT ON THE WEST LINE OF SAID E ½ OF SE ¼ OF NE ¼; THENCE N 00°04'25" E ALONG SAID WEST LINE 1028.06 FEET TO THE POINT OF BEGINNING.
SUBJECT TO A PERPETUAL NON-EXCLUSIVE INGRESS-EGRESS EASEMENT OVER AND ACROSS THE NORTH 20 FEET OF THE FOREGOING DESCRIBED LANDS, SAID EASEMENT BEING FOR THE USE AND BENEFIT OF THE OWNER OF THE FIVE ACRE TRACT MENTIONED IN THE FOREGOING LEGAL DESCRIPTION, AND BEING ADJACENT TO AND CONTIGUOUS WITH THE NORTH LINE OF THE E ½ OF SE ¼ OF NE ¼.

THE FOREGOING DESCRIBED PARCEL INCLUDES A PERPETUAL NON-EXCLUSIVE INGRESS-EGRESS EASEMENT AS FOLLOWS: A STRIP OF LAND 30 FEET IN WIDTH EXTENDING FROM THE EAST RIGHT-OF-WAY LINE OF MURRAY ROAD, LYING SOUTH OF AND CONTIGUOUS WITH THE NORTH LINE OF SE ¼ OF SE ¼ OF SECTION 1, TOWNSHIP 4 SOUTH, RANGE 15 EAST TO A POINT WHICH IS 30 FEET EASTERLY OF THE MID-POINT OF THE NORTH LINE OF SAID SE ¼ OF SE ¼; AND A STRIP OF LAND 30 FEET IN WIDTH EAST OF AND CONTIGUOUS WITH AND ADJACENT TO THE WEST LINE OF THE EAST ½ OF NE ¼ OF SE ¼ AND EAST OF AND ADJACENT TO AND CONTIGUOUS WITH THE WEST LINE OF THE SOUTH 297.39 FEET OF SE ¼ OF NE ¼, EXTENDING TO THE SOUTH LINE OF THE FOREGOING PARCEL.

SEAN M. KEENAN AND LYNDA SUE KEENAN WERE MARRIED CONTINUOUSLY AND WITHOUT INTERRUPTION BY DIVORCE FROM 08/01/1998 THRU THE EXECUTION AND DELIVERY OF THIS DEED.

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

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

And *the grantors hereby covenant with said grantees that they are lawfully seized of said land in fee simple; that they have good right and lawful authority to sell and convey said land, and hereby fully warrant the title to said*

Columbia County Building Permit Application

For Office Use Only Application # 0801-108 Date Received 1/22/08 By G Permit # 26698

Zoning Official BLK Date 30.01.08 Flood Zone X FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE 1ft above easement River N/A Plans Examiner OK STH Date 1-25-08

Comments South .5 Ac dedicated to House,

□ NOC ☑ EH □ Deed or PA □ Site Plan □ State Road Info □ Parent Parcel #

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

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

Septic Permit No. Fax

Name Authorized Person Signing Permit Dion Taylor Phone 386-288-5087

Address Po Box 3311 Lake City, Flas 32056

Owners Name Keith Thompson Phone

911 Address 467 SW Diamond COURT, LC FL 32024

Contractors Name Dion Taylor Phone 386-288-5087

Address Po Box 3311 Lake City Flas 32056

Fee Simple Owner Name & Address

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address

Mortgage Lenders Name & Address

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

Property ID Number 01-4S-15-00314-012 Estimated Cost of Construction 60,000

Subdivision Name Lot Block Unit Phase

Driving Directions Go 90 west turn left onto Pinemount Road, go approximately 5 miles turn Right onto Mayo Road, turn Right onto Diamond Ct. turn Right at the end of Road

Number of Existing Dwellings on Property 1

Construction of House SFD

Total Acreage 10 Lot Size

Do you need a - Culvert Permit or (Culvert Waiver) or Have an Existing Drive DRIVABLE

Total Building Height 18'

Actual Distance of Structure from Property Lines - Front 100' Side R 95' Side L 80' Rear 80'

Number of Stories 1 Heated Floor Area 1500 Total Floor Area 1560 Roof Pitch 5-12

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.

0801 - 108

Columbia County Property Appraiser

DB Last Updated: 1/15/2008

2008 Proposed Values

Tax Record | Property Card | Interactive GIS Map | Print

Parcel: 01-4S-15-00314-012

Search Result: 1 of 1

Owner & Property Info

Owner's Name	THOMPSON KIETH &		
Site Address	DIAMOND		
Mailing Address	AGATHA THOMPSON (JTWRS) 232 BERMUDA BEACH DR FORT PIERCE, FL 34949		
Use Desc. (code)	MOBILE HOM (000200)		
Neighborhood	1415.00	**Tax District**	3
UD Codes	MKTA01	**Market Area**	01
Total Land Area	10.020 ACRES		
Description	BEG NW COR OF E1/2 OF SE1/4 OF NE1/4, RUN E 197.79 FT TO NW COR OF A 5-AC PRCL OF LAND, RUN S 466.69 FT, E 415.10 FT TO A PT ON A LINE LYING 51.59 FT W OF & PARALLEL TO E LINE OF SEC, S 561.17 FT, W 613.31 FT, N 1028.06 FT TO POB. ORB 864-2483. WD 1039-2888.		

GIS Aerial

Property & Assessment Values

Mkt Land Value	cnt: (3)	$74,894.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (1)	$36,372.00
XFOB Value	cnt: (2)	$1,100.00
Total Appraised Value		$112,366.00

Just Value	$112,366.00
Class Value	$0.00
Assessed Value	$112,366.00
Exempt Value	$0.00
Total Taxable Value	$112,366.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
3/7/2005	1039/2888	WD	I	Q		$87,000.00
8/1/1998	864/2483	WD	V	Q		$25,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SFR MANUF (000200)	1999	Vinyl Side (31)	1152	1152	$36,372.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0294	SHED WOOD/	1999	$600.00	1.000	0 x 0 x 0	(.00)
0294	SHED WOOD/	2005	$500.00	1.000	0 x 0 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value

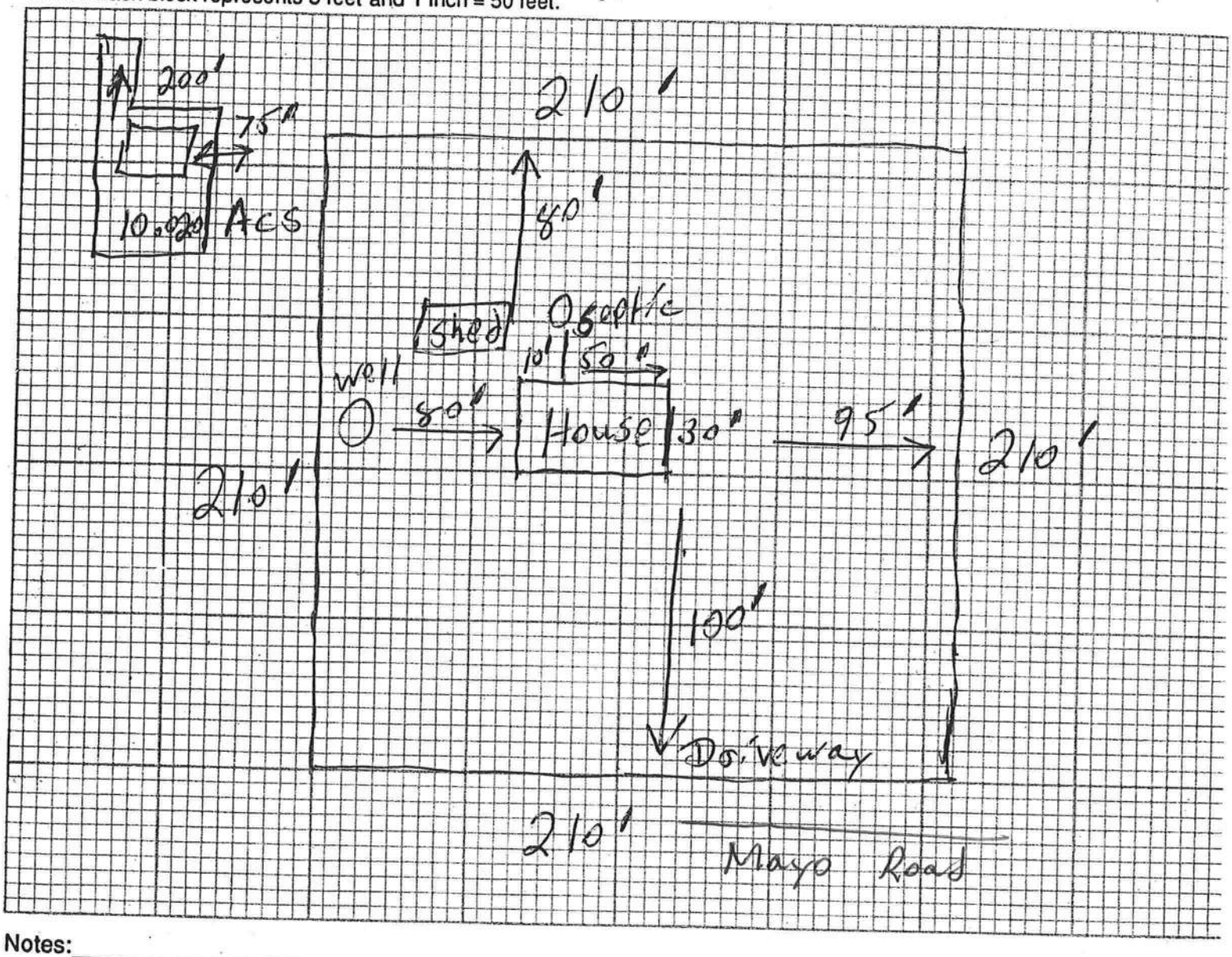
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Parcel # 01-45-15-00314-012 Permit Application Number _____

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: _____

Site Plan submitted by: _____ _____
Signature Title

Plan Approved _____ Not Approved _____ Date _____

By _____ County Health Departmen

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/96 (Replaces HRS-H Form 4015 which may be used)
(Stock Number: 5744-002-4015-6)

COLUMBIA COUNTY 9-1-1 ADDRESSING / GIS DEPARTMENT

P. O. Box 1787, Lake City, FL 32056-1787
Telephone: (386) 758-1125 * Fax: (386) 758-1365 * E-mail: ron_croft@columbiacountyfla.com

ADDRESS ASSIGNMENT DATA

The Columbia County Board of County Commissioners has passed Ordinance 2001-9, which provides for a uniform numbering system. A copy of this ordinance is available in the Clerk of Court records, located in the courthouse. This new numbering system will increase the efficiency of POLICE, FIRE AND EMERGENCY MEDICAL vehicles responding to calls within Columbia County by immediately identifying the location of the caller.

Residential or Other Structure on Parcel Number:
01-4S-15-00314-012

Address Assignments:
467 SW DIAMOND CT, LAKE CITY, FL, 32024

Note: 2nd location on property.

Any questions concerning this information should be referred to the Columbia County 9-1-1 Addressing / GIS Department at the address or telephone number above.

2687

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 01-4S-15-00314-012

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

1. Description of property *(legal description)*: Township 4 South Range 15 East Lot No. 7
   a) Street *(job)* Address:
2. General description of improvements: House
3. Owner Information
   a) Name and address: Keith Thompson
   b) Name and address of fee simple titleholder (if other than owner)
   c) Interest in property
4. Contractor Information
   a) Name and address: Dion Taylor
   b) Telephone No.: 386-288-5087 Fax No. (Opt.)
5. Surety Information
   a) Name and address:
   b) Amount of Bond:
   c) Telephone No.: Fax No. (Opt.)

Inst:200812002034 Date:2/1/2008 Time:8:10 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 1

6 Lender
   a) Name and address:
   b) Phone No.
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: Dion Taylor
   b) Telephone No.: 386-288-5087 Fax No. (Opt.)

8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
   a) Name and address:
   b) Telephone No.: Fax No. (Opt.)

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

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

Dion Taylor
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 22nd day of January, 20 08, by: Rebecca S. Sullivan as Notary Public **(type of authority, e.g. officer, trustee, attorney fact)** for Dion Taylor **(name of party on behalf of whom instrument was executed).**

Personally Known ✓ OR Produced Identification ____ Type ____

Notary Signature Rebecca S. Sullivan Notary Stamp or Seal:

Rebecca S. Sullivan
MY COMMISSION # DD282696 EXPIRES
May 11, 2008
BONDED THRU TROY FAIN INSURANCE, INC.

—AND—

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

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

Project Summary

Client:	Dion Taylor	Company:	Glenn I. Jones, Inc.
Address:		Representative:	Glenn Jr.
City:	Lake City, FL 32055	Address:	811 N. 5th. St.
Phone:	755-1862	City:	Lake City, Fl. 32055
Fax:		Phone:	(904) 752-5389
		Fax:	(904) 755-3401
		Comment:	

Design Data

Project Name:
Reference City: Lake City, Florida
Daily Temperature Range: Medium
Latitude: 30 Degrees
Elevation: 26 Feet

	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum.	Indoor Dry Bulb	Grains Difference
Winter:	27	N/A	N/A	70	N/A
Summer:	96	78	50%	75	51

Check Figures

Total Building Supply CFM:	800	CFM per square foot:	0.6
Square feet of room area:	1,334	Square feet per ton:	699.121

Building Loads

Total heating required with outside air:	27,645 Btuh	27.645	MBH
Total sensible gain:	17,173 Btuh	82	%
Total latent gain:	3,862 Btuh	18	%
Total cooling required with outside air:	21,035 Btuh	1.753	Tons (based on sensible + latent)
		1.908	Tons (based on 75% sensible capacity)

Notes

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

Miscellaneous Project Data

Project File Name: UNTITLED

System Input Data

---System 1---	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum.	Indoor Dry Bulb	Grains Difference
Winter:	27	N/A	N/A	70	N/A
Summer:	96	78	50%	75	51

External Overhangs

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

Duct Sizing Inputs

	Runouts	Main Trunk
Duct Material:	Flexible Duct	Fiberglass Duct Board
Roughness Factor:	0.010000	0.003000
Pressure Drop:	0.1000 In.wg/100 Ft.	0.1000 In.wg/100 Ft.
Minimum Velocity:	450.0 Ft./Minute	650.0 Ft./Minute
Maximum Velocity:	750.0 Ft./Minute	900.0 Ft./Minute
Minimum Height:	0 Inches	0 Inches
Maximum Height:	0 Inches	0 Inches

Outside Air Data

	Winter	Summer
Infiltration:	0.900 AC/Hr	0.400 AC/Hr
Volume of Conditioned Space:	X 10672 Cu.Ft.	X 10672 Cu.Ft.
	9,605 Cu.Ft./Hr	4,269 Cu.Ft./Hr
	X 0.0167	X 0.0167
Total Building Infiltration:	160.08 CFM	71.14667 CFM
Total Building Ventilation:	0 CFM	0 CFM

---System 1---

Infiltration & Ventilation Sensible Gain Multiplier: 23.10 = (1.10 X 21.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier: 34.86 = (0.68 X 51.27 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier: 47.30 = (1.10 X 43.00 Winter Temp. Difference)

Total Building Summary Loads

Component Description	Area Quan	Sen. Loss	Lat. Gain	Sen. Gain	Total Gain
3C Window Double Pane Clear Glass Metal Frame	177	5,521	0	4,893	4,893
8O Glass Door Double Clear Glass Metal Frame	42	1,309	0	983	983
10D Door Wood Solid Core	42	830	0	476	476
12D Wall R-11 + 1/2" Asphlt Board(R-1.3)	1,035	3,560	0	2,037	2,037
16G Ceiling R-30 Insulation	1,334	1,894	0	1,979	1,979
22A Slab on Grade No Edge Insulation	162	5,643	0	0	0
Subtotals for structure:	2,792	18,757	0	10,368	10,368
Active People:	6	0	1,380	1,800	3,180
Inactive People:	0	0	0	0	0
Appliances:	0	0	0	1,800	1,800
Lighting:	0	0		0	
Ductwork:	0	1,317	0	1,561	1,561
Infiltration: Winter CFM: 160.1, Summer CFM: 71.1	261	7,571	2,482	1,644	4,126
Ventilation: Winter CFM: 0.0, Summer CFM: 0.0	0	0	0	0	0
Sensible Gain Total:				17,173	
Temperature Swing Multiplier:				X1.00	
Building Load Totals:		27,645	3,862	17,173	21,035

Check Figures

Total Building Supply CFM:	800	CFM per square foot:	0.6
Square feet of room area:	1,334	Square feet per ton:	699.121

Building Loads

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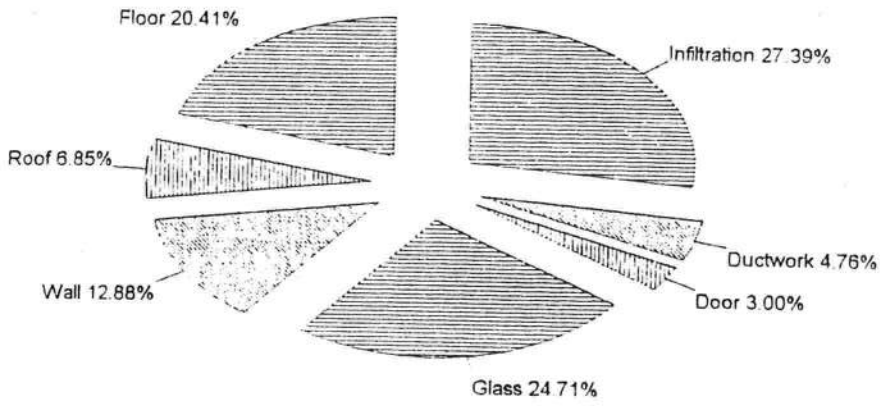
		1.908	Tons (based on 75% sensible capacity)

Notes

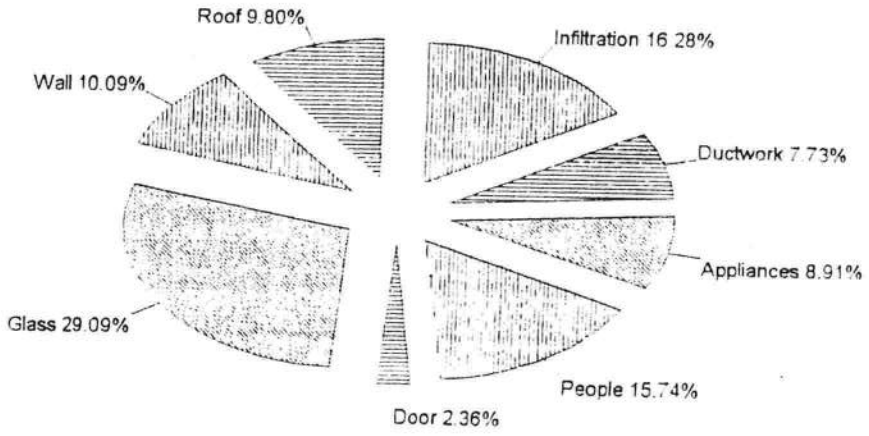
Calculations are based on 7th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Building Load Pie Charts

Total Building Loss 27,645 BTUH



Total Building Gain 21,035 BTUH



System #1 Zone #1 Summary Loads

Component Description	Area Quan	Sen. Loss	Lat. Gain	Sen. Gain	Total Gain
3C Window Double Pane Clear Glass Metal Frame	177	5,521	0	4,893	4,893
8O Glass Door Double Clear Glass Metal Frame	42	1,309	0	983	983
10D Door Wood Solid Core	42	830	0	476	476
12D Wall R-11 + 1/2" Asphlt Board(R-1.3)	1,035	3,560	0	2,037	2,037
16G Ceiling R-30 Insulation	1,334	1,894	0	1,979	1,979
22A Slab on Grade No Edge Insulation	162	5,643	0	0	0
Subtotals for structure:	2,792	18,757	0	10,368	10,368
Active People:	6	0	1,380	1,800	3,180
Inactive People:	0	0	0	0	0
Appliances:	0	0	0	1,800	1,800
Lighting:	0	0		0	
Ductwork:	0	1,317	0	1,561	1,561
Infiltration: Winter CFM: 160.1, Summer CFM: 71.1	261	7,571	2,482	1,644	4,126
Ventilation: Winter CFM: 0.0, Summer CFM: 0.0	0	0	0	0	0
Sensible Gain Total:				17,173	
Temperature Swing Multiplier:				X1.00	
Zone Load Totals:		27,645	3,862	17,173	21,035

Check Figures

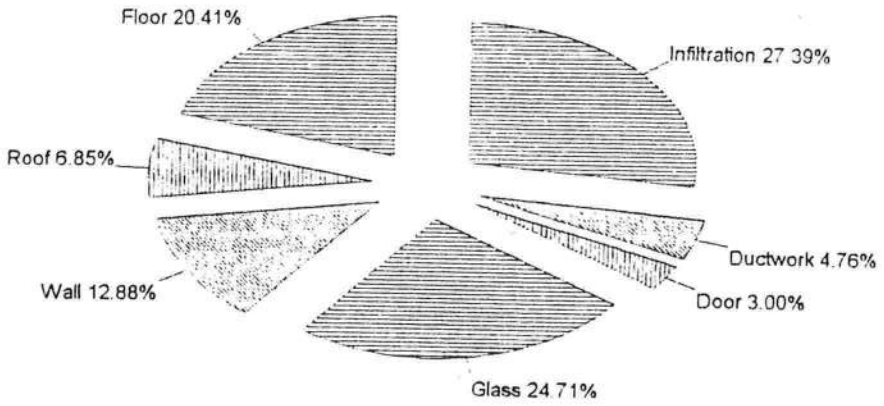
Supply CFM:	800	CFM per square foot:	0.6
Square feet of room area:	1,334	Square feet per ton:	699.121

Zone Loads

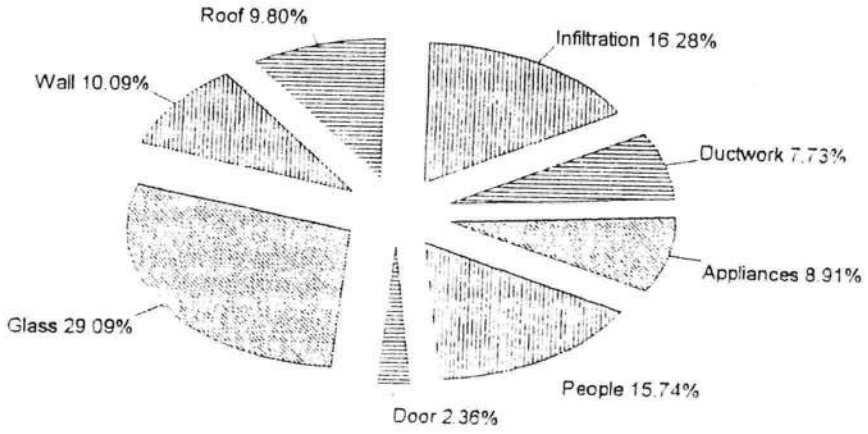
Total heating required with outside air:	27,645 Btuh	27.645 MBH
Total sensible gain:	17,173 Btuh	82 %
Total latent gain:	3,862 Btuh	18 %
Total cooling required with outside air:	21,035 Btuh	1.753 Tons (based on sensible + latent)
		1.908 Tons (based on 75% sensible capacity)

System #1 Zone #1 Load Pie Charts

Total Zone Loss 27,645 BTUH



Total Zone Gain 21,035 BTUH



Detailed Room Loads

1. M. Bedroom

Room Length:	14.0	Feet	System Number:	1	
Room Width:	17.0	Feet	Zone Number:	1	
Area:	238.0	Square Feet	Supply Air:	121	CFM
Ceiling Height:	8.0	Feet	Required Vent. Air:	0	CFM
Volume:	1,904.0	Cubic Feet	Actual Winter Ventilation Air:	0	CFM
Number of Registers:	1		% of Supply:	0	%
Runout Air:	121	CFM	Actual Summer Ventilation Air:	0	CFM
Runout Duct Size:	7	Inches	% of Supply:	0	%
Runout Air Velocity:	452	Feet/Minute	Actual Winter Infiltration Air:	18	CFM allocated
Design Loss:	0.100	In.wg/100 Ft.	Actual Summer Infiltration Air:	8	CFM allocated
Actual Loss:	0.107	In.wg/100 Ft.			

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
N -WALL-12D 17 X 8	121	0.080	3.4	416	2.0	0	238
W -WALL-12D 14 X 8	97	0.080	3.4	334	2.0	0	191
N -GLAS-3C 2-P O-4 S-1 100%S	15	0.725	31.2	468	23.4	0	351
W -GLAS-3C 2-P O-4 S-1 65%S	15	0.725	31.2	468	40.1	0	601
UP-CEIL-16G DARK 14 X 17	238	0.033	1.4	338	1.5	0	353
FLOOR-22A 31 FT	31	0.810	34.8	1,080	0.0	0	0
Subtotals for structure:	517			3104		0	1734
Infiltration: Winter: 18.4, Summer: 8.2:	30		29.000	870	6.300	285	189
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	199	0.100	0	192
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:							
Lighting:						0	0
Sensible Gain Total:							0
Temperature Swing Multiplier:							2115
Room Totals:							X1.00
				4,173		285	2,115

Detailed Room Loads

2. M. Bath

Room Length:	5.0 Feet	System Number:	1
Room Width:	8.0 Feet	Zone Number:	1
Area:	40.0 Square Feet	Supply Air:	32 CFM
Ceiling Height:	8.0 Feet	Required Vent. Air:	0 CFM
Volume:	320.0 Cubic Feet	Actual Winter Ventilation Air:	0 CFM
Number of Registers:	1	% of Supply:	0 %
Runout Air:	32 CFM	Actual Summer Ventilation Air:	0 CFM
Runout Duct Size:	3 Inches	% of Supply:	0 %
Runout Air Velocity:	660 Feet/Minute	Actual Winter Infiltration Air:	6 CFM allocated
Design Loss:	0.100 In.wg/100 Ft.	Actual Summer Infiltration Air:	2 CFM allocated
Actual Loss:	0.746 In.wg/100 Ft.		

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
N -WALL-12D 8 X 8	55	0.080	3.4	189	2.0	0	108
N -GLAS-3C 2-P O-4 S-1 100%S	9	0.725	31.2	281	23.4	0	211
UP-CEIL-16G DARK 5 X 8	40	0.033	1.4	57	1.5	0	59
FLOOR-22A 8 FT	8	0.810	34.8	279	0.0	0	0
Subtotals for structure:	112			806		0	378
Infiltration: Winter: 5.5, Summer: 2.5:	9		29.000	261	6.333	86	57
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	53	0.100	0	44
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:						0	0
Lighting:							0
Sensible Gain Total:							479
Temperature Swing Multiplier:							X1.00
Room Totals:				1,120		86	479

Detailed Room Loads

3. Bath

Room Length:	8.0	Feet	System Number:	1	
Room Width:	5.0	Feet	Zone Number:	1	
Area:	40.0	Square Feet	Supply Air:	2	CFM
Ceiling Height:	8.0	Feet	Required Vent. Air:	0	CFM
Volume:	320.0	Cubic Feet	Actual Winter Ventilation Air:	0	CFM
Number of Registers:	1		% of Supply:	0	%
Runout Air:	2	CFM	Actual Summer Ventilation Air:	0	CFM
Runout Duct Size:	0	Inches	% of Supply:	0	%
Runout Air Velocity:	0*	Feet/Minute	Actual Winter Infiltration Air:	0	CFM allocated
Design Loss:	0.100	In.wg/100 Ft.	Actual Summer Infiltration Air:	0	CFM allocated
Actual Loss:	0.000	In.wg/100 Ft.			

*Runout velocity constraints were not met due to duct schedule limitations.

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
UP-CEIL-16G DARK 8 X 5	40	0.033	1.4	57	1.5	0	59
Subtotals for structure:	40			57		0	59
Infiltration: Winter: 0.0, Summer: 0.0:	0		0.000	0	0.000	0	0
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	3	0.100	0	6
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:						0	0
Lighting:							0
Sensible Gain Total:							65
Temperature Swing Multiplier:							X1.00
Room Totals:				60		0	65

Detailed Room Loads

4. Bedroom 2

Room Length:	11.0	Feet	System Number:	1	
Room Width:	13.0	Feet	Zone Number:	1	
Area:	143.0	Square Feet	Supply Air:	103	CFM
Ceiling Height:	8.0	Feet	Required Vent. Air:	0	CFM
Volume:	1,144.0	Cubic Feet	Actual Winter Ventilation Air:	0	CFM
Number of Registers:	1		% of Supply:	0	%
Runout Air:	103	CFM	Actual Summer Ventilation Air:	0	CFM
Runout Duct Size:	6	Inches	% of Supply:	0	%
Runout Air Velocity:	526	Feet/Minute	Actual Winter Infiltration Air:	18	CFM allocated
Design Loss:	0.100	In.wg/100 Ft.	Actual Summer Infiltration Air:	8	CFM allocated
Actual Loss:	0.179	In.wg/100 Ft.			

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
W -WALL-12D 13 X 8	89	0.080	3.4	306	2.0	0	175
S -WALL-12D 11 X 8	73	0.080	3.4	251	2.0	0	144
W -GLAS-3C 2-P O-4 S-1 65%S	15	0.725	31.2	468	40.1	0	601
S -GLAS-3C 2-P O-4 S-1 100%S	15	0.725	31.2	468	23.4	0	351
UP-CEIL-16G DARK 11 X 13	143	0.033	1.4	203	1.5	0	212
FLOOR-22A 24 FT	24	0.810	34.8	836	0.0	0	0
Subtotals for structure:	359			2532		0	1483
Infiltration: Winter: 18.4, Summer: 8.2:	30		29.000	870	6.300	285	189
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	170	0.100	0	167
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:						0	0
Lighting:							0
Sensible Gain Total:							1839
Temperature Swing Multiplier:							X1.00
Room Totals:				3,572		285	1,839

Detailed Room Loads

5. Bedroom 3

Room Length:	10.0 Feet	System Number:	1
Room Width:	12.0 Feet	Zone Number:	1
Area:	120.0 Square Feet	Supply Air:	54 CFM
Ceiling Height:	8.0 Feet	Required Vent. Air:	0 CFM
Volume:	960.0 Cubic Feet	Actual Winter Ventilation Air:	0 CFM
Number of Registers:	1	% of Supply:	0 %
Runout Air:	54 CFM	Actual Summer Ventilation Air:	0 CFM
Runout Duct Size:	4 Inches	% of Supply:	0 %
Runout Air Velocity:	616 Feet/Minute	Actual Winter Infiltration Air:	9 CFM allocated
Design Loss:	0.100 In.wg/100 Ft.	Actual Summer Infiltration Air:	4 CFM allocated
Actual Loss:	0.432 In.wg/100 Ft.		

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
S -WALL-12D 12 X 8	81	0.080	3.4	279	2.0	0	159
S -GLAS-3C 2-P O-4 S-1 100%S	15	0.725	31.2	468	23.4	0	351
UP-CEIL-16G DARK 10 X 12	120	0.033	1.4	170	1.5	0	178
FLOOR-22A 12 FT	12	0.810	34.8	418	0.0	0	0
Subtotals for structure:	228			1335		0	688
Infiltration: Winter: 9.2, Summer: 4.1:	15		29.000	435	6.267	143	94
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	89	0.100	0	78
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:						0	0
Lighting:							0
Sensible Gain Total:							860
Temperature Swing Multiplier:							X1.00
Room Totals:				1,859		143	860

Detailed Room Loads

6. Living Room

Room Length:	13.0	Feet	System Number:	1	
Room Width:	18.0	Feet	Zone Number:	1	
Area:	234.0	Square Feet	Supply Air:	125	CFM
Ceiling Height:	8.0	Feet	Required Vent. Air:	0	CFM
Volume:	1,872.0	Cubic Feet	Actual Winter Ventilation Air:	0	CFM
Number of Registers:	1		% of Supply:	0	%
Runout Air:	125	CFM	Actual Summer Ventilation Air:	0	CFM
Runout Duct Size:	7	Inches	% of Supply:	0	%
Runout Air Velocity:	467	Feet/Minute	Actual Winter Infiltration Air:	31	CFM allocated
Design Loss:	0.100	In.wg/100 Ft.	Actual Summer Infiltration Air:	14	CFM allocated
Actual Loss:	0.114	In.wg/100 Ft.			

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
S -WALL-12D 18 X 8	93	0.080	3.4	320	2.0	0	183
S -DOOR-10D 3 X 7	21	0.460	19.8	415	11.3	0	238
S -GLAS-3C 2-P O-4 S-1 100%S	30	0.725	31.2	935	23.4	0	702
UP-CEIL-16G DARK 13 X 18	234	0.033	1.4	332	1.5	0	347
FLOOR-22A 18 FT	18	0.810	34.8	627	0.0	0	0
Subtotals for structure:	396			2629		0	1470
Infiltration: Winter: 31.3, Summer: 13.9:	51		29.020	1,480	6.294	485	321
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	205	0.100	0	179
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:						0	0
Lighting:							0
Sensible Gain Total:							1970
Temperature Swing Multiplier:							X1.00
Room Totals:				4,314		485	1,970

Detailed Room Loads

7. Kitchen

Room Length:	11.0	Feet	System Number:	1	
Room Width:	10.0	Feet	Zone Number:	1	
Area:	110.0	Square Feet	Supply Air:	39	CFM
Ceiling Height:	8.0	Feet	Required Vent. Air:	0	CFM
Volume:	880.0	Cubic Feet	Actual Winter Ventilation Air:	0	CFM
Number of Registers:	1		% of Supply:	0	%
Runout Air:	39	CFM	Actual Summer Ventilation Air:	0	CFM
Runout Duct Size:	4	Inches	% of Supply:	0	%
Runout Air Velocity:	449*	Feet/Minute	Actual Winter Infiltration Air:	6	CFM allocated
Design Loss:	0.100	In.wg/100 Ft.	Actual Summer Infiltration Air:	2	CFM allocated
Actual Loss:	0.231	In.wg/100 Ft.			

*Runout velocity constraints were not met due to duct schedule limitations.

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
N -WALL-12D 10 X 8	71	0.080	3.4	244	2.0	0	140
N -GLAS-3C 2-P O-4 S-1 100%S	9	0.725	31.2	281	23.4	0	211
UP-CEIL-16G DARK 11 X 10	110	0.033	1.4	156	1.5	0	163
FLOOR-22A 10 FT	10	0.810	34.8	348	0.0	0	0
Subtotals for structure:	200			1029		0	514
Infiltration: Winter: 5.5, Summer: 2.5:	9		29.000	261	6.333	86	57
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	65	0.100	0	177
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:						0	1,200
Lighting:							0
Sensible Gain Total:							1948
Temperature Swing Multiplier:							X1.00
Room Totals:				1,355		86	1,948

Detailed Room Loads

8. Dining Room

Room Length:	11.0	Feet	System Number:	1	
Room Width:	11.0	Feet	Zone Number:	1	
Area:	121.0	Square Feet	Supply Air:	98	CFM
Ceiling Height:	8.0	Feet	Required Vent. Air:	0	CFM
Volume:	968.0	Cubic Feet	Actual Winter Ventilation Air:	0	CFM
Number of Registers:	1		% of Supply:	0	%
Runout Air:	98	CFM	Actual Summer Ventilation Air:	0	CFM
Runout Duct Size:	6	Inches	% of Supply:	0	%
Runout Air Velocity:	501	Feet/Minute	Actual Winter Infiltration Air:	26	CFM allocated
Design Loss:	0.100	In.wg/100 Ft.	Actual Summer Infiltration Air:	11	CFM allocated
Actual Loss:	0.163	In.wg/100 Ft.			

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
N -WALL-12D 11 X 8	46	0.080	3.4	158	2.0	0	91
N -G.DR-8O 2-P O-4 S-1 100%S	42	0.725	31.2	1,309	23.4	0	983
UP-CEIL-16G DARK 11 X 11	121	0.033	1.4	172	1.5	0	180
FLOOR-22A 11 FT	11	0.810	34.8	383	0.0	0	0
Subtotals for structure:	220			2022		0	1254
Infiltration: Winter: 25.8, Summer: 11.4:	42		29.000	1,218	6.286	399	264
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	162	0.100	0	152
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:						0	0
Lighting:							0
Sensible Gain Total:							1670
Temperature Swing Multiplier:							X1.00
Room Totals:				3,402		399	1,670

Detailed Room Loads

9. Utility

Room Length:	5.0 Feet	System Number:	1
Room Width:	12.0 Feet	Zone Number:	1
Area:	60.0 Square Feet	Supply Air:	50 CFM
Ceiling Height:	8.0 Feet	Required Vent. Air:	0 CFM
Volume:	480.0 Cubic Feet	Actual Winter Ventilation Air:	0 CFM
Number of Registers:	1	% of Supply:	0 %
Runout Air:	50 CFM	Actual Summer Ventilation Air:	0 CFM
Runout Duct Size:	4 Inches	% of Supply:	0 %
Runout Air Velocity:	577 Feet/Minute	Actual Winter Infiltration Air:	6 CFM allocated
Design Loss:	0.100 In.wg/100 Ft.	Actual Summer Infiltration Air:	2 CFM allocated
Actual Loss:	0.378 In.wg/100 Ft.		

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
N -WALL-12D 12 X 8	87	0.080	3.4	299	2.0	0	171
E -WALL-12D 5 X 8	40	0.080	3.4	138	2.0	0	79
N -GLAS-3C 2-P O-4 S-1 100%S	9	0.725	31.2	281	23.4	0	211
UP-CEIL-16G DARK 5 X 12	60	0.033	1.4	85	1.5	0	89
FLOOR-22A 17 FT	17	0.810	34.8	592	0.0	0	0
Subtotals for structure:	213			1395		0	550
Infiltration: Winter: 5.5, Summer: 2.5:	9		29.000	261	6.333	86	57
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	83	0.100	0	121
Active People: 230 lat/per, 300 sen/per:	0					0	0
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:						0	600
Lighting:							0
Sensible Gain Total:							1328
Temperature Swing Multiplier:							X1.00
Room Totals:				1,739		86	1,328

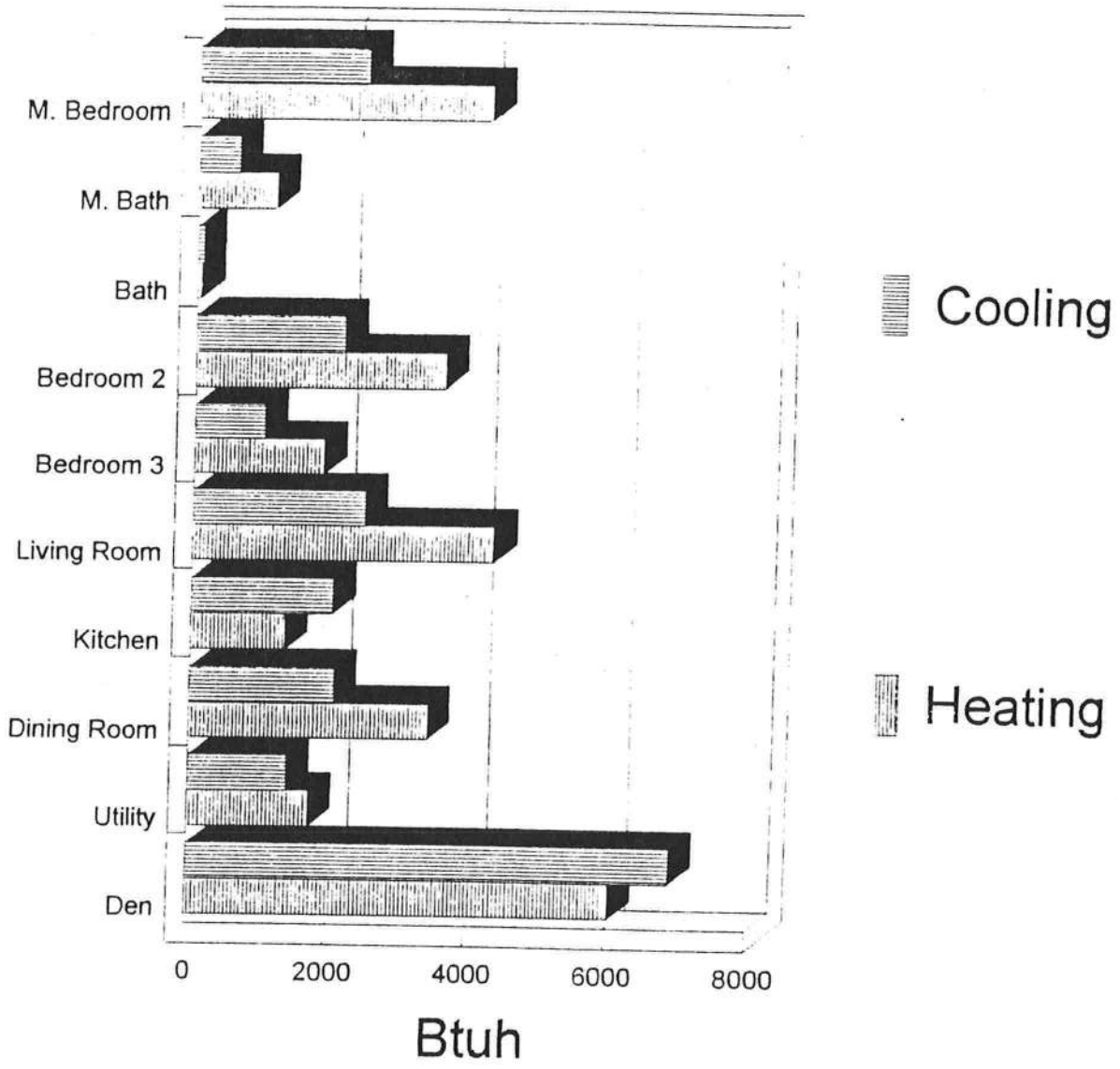
Detailed Room Loads

10. Den

Room Length:	12.0	Feet	System Number:	1	
Room Width:	19.0	Feet	Zone Number:	1	
Area:	228.0	Square Feet	Supply Air:	175	CFM
Ceiling Height:	8.0	Feet	Required Vent. Air:	0	CFM
Volume:	1,824.0	Cubic Feet	Actual Winter Ventilation Air:	0	CFM
Number of Registers:	1		% of Supply:	0	%
Runout Air:	175	CFM	Actual Summer Ventilation Air:	0	CFM
Runout Duct Size:	8	Inches	% of Supply:	0	%
Runout Air Velocity:	502	Feet/Minute	Actual Winter Infiltration Air:	40	CFM allocated
Design Loss:	0.100	In.wg/100 Ft.	Actual Summer Infiltration Air:	18	CFM allocated
Actual Loss:	0.110	In.wg/100 Ft.			

Item Description	Area Quantity	-U- Value	Htg HTM	Sen. Loss	Clg HTM	Latent Gain	Sen. Gain
E -WALL-12D 19 X 8	116	0.080	3.4	399	2.0	0	228
S -WALL-12D 12 X 8	66	0.080	3.4	227	2.0	0	130
E -DOOR-10D 3 X 7	21	0.460	19.8	415	11.3	0	238
E -GLAS-3C 2-P O-4 S-1 65%S	15	0.725	31.2	468	40.1	0	601
S -GLAS-3C 2-P O-4 S-1 100%S	30	0.725	31.2	935	23.4	0	702
UP-CEIL-16G DARK 12 X 19	228	0.033	1.4	324	1.5	0	339
FLOOR-22A 31 FT	31	0.810	34.8	1,080	0.0	0	0
Subtotals for structure:	507			3848		0	2238
Infiltration: Winter: 40.5, Summer: 18.0:	66		29.015	1,915	6.303	627	416
Ventilation: Winter: 0.0, Summer: 0.0:				0		0	0
Ductwork:			0.050	288	0.100	0	445
Active People: 230 lat/per, 300 sen/per:	6					1,380	1,800
Inactive People: 150 lat/per, 250 sen/per:	0					0	0
Appliances:							
Lighting:						0	0
Sensible Gain Total:							0
Temperature Swing Multiplier:							4899
Room Totals:							X1.00
				6,051		2,007	4,899

Cooling and Heating Loads Bar Graphs



HERITAGE 40 AR®

FL673

PRODUCT DATA

LAMINATED ASPHALT SHINGLES

Manufactured in Tuscaloosa, AL.

HERITAGE 40 AR® shingles feature a double-layer fiberglass mat construction with a random-cut sawtooth design. The two layers of mat are coated with asphalt and then laminated together and surfaced with granules that will help protect against discoloration caused by algae. A self-sealing strip of asphalt helps provide added wind resistance.

USES

For application to roof decks with inclines of not less than 2 inches per foot. For slopes between 2 inches and 4 inches per foot, refer to wrapper instructions.

ADVANTAGES

- 40 year limited warranty, 7 year FULL START, limited transferability, winds up to 80 MPH
- Superior fire resistance compared to organic shingles
- Rustic beauty of wood shakes
- Shadowtone feature adds depth and dimensional appearance
- Algae resistant granules to protect against discoloration in areas where extreme humidity is a problem
- 10 year limited warranty against discoloration caused by certain algae growth

CERTIFICATIONS

UL Class A Fire Rating	ASTM D 3018, Type I
UL Wind Resistant	ASTM E 108, Class A
	ASTM D 3161, Type I (Modified to 110 mph)
Fed. Spec.: Exceeds SS-S-001534, Class A, Type I	ASTM D 3462

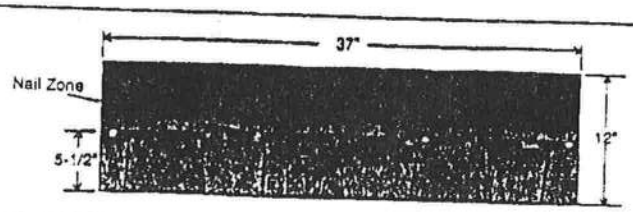
COLORS

America's Natural Colors:

- Natural Timber
- Painted Desert
- Thunderstorm Grey
- Harvest Gold
- Mountain Slate
- Black Walnut

PRODUCT DATA*

Shingle size	12" X 36"
Exposure	5"
Shingles per square	80
Bundles per square	4



*All values stated as nominal

CAUTION: The National Institute for Occupational Safety and Health (NIOSH) has concluded that fumes of heated asphalt are a potential occupational carcinogen. Do not heat or burn this product.

TAMKO®
ROOFING PRODUCTS

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Visit our Web Site at www.tamko.com

01/2002

Central District	220 West 4th St., Joplin, MO	64801	800-641-4691
Northeast District	4500 Tamko Dr., Frederick, MD	21701	800-368-2055
Southeast District	2300 35th St., Tuscaloosa, AL	35401	800-228-2656
Southwest District	7910 S. Central Exp., Dallas, TX	75216	800-443-1834
Western District	5300 East 43rd Ave., Denver, CO	80216	800-530-8868

FL 663

MI HOME PRODUCTS
- PRIME ALUMINUM WINDOWS -
INSTALLATION INSTRUCTIONS FOR "NAIL FIN" PRODUCTS

MI Home Products appreciates your recent purchase of a maintenance free prime window, which will not rust, rot, mildew, or warp. This is a quality product that left our factory in good condition – proper handling and installation are just as important as good design and workmanship. Please follow these recommendations to allow this product to complete its function.

1 Handle units one at a time in the closed and locked position and take care not to scratch frame or glass or to bend the nailing fin.

2. Set unit plumb and square into opening and make sure that there is 3/16" ± 1/16" clearance around the frame. Fasten unit into opening in the closed and locked position, making sure that fasteners are screwed in straight in order to avoid twisting or bowing of the frame. Make sure that sill is straight and level. Check operation of unit before any and all fasteners are set.

3. Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the framing (stud). Place first screws (two at each corner) 3" from end of fin. For positive and negative DPs (design pressures) up to 35, do not exceed 24" spacing of additional screws. For DPs from 35.1 to 50, do not exceed 18". Install load bearing shim adjacent to each anchor. Use shim where space exceeds 1/16".

4. Flash over head and caulk outside perimeter in accordance with code requirements and good installation practices.

5. Fill voids between frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows and doors to eliminate drafts. The use of expanding aerosol type insulating foam, which can bow the frame, waives all stated warranties.

6. Remove plaster, mortar, paint and any other debris that may have collected on the unit and make sure that sash/vent tracks and interlocks are also clear. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass: scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent as you would you automobile.

CAUTION -

MI Home Products, or its representatives are unable to control and cannot assume responsibility for the selection and placement of their products in a building or structure in a manner required by laws, statutes, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. MI Home Products window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes require safety glazing near doors, bathtubs, and shower enclosures. Also be aware of emergency egress code requirements.

Corporate Headquarters:
650 West Market St.
Gratz, PA 17030-0370
(717) 365-3300

MI HOME PRODUCTS
- PRIME ALUMINUM WINDOWS -
INSTALLATION INSTRUCTIONS FOR "NAIL FIN" PRODUCTS

MI Home Products appreciates your recent purchase of a maintenance free prime window, which will not rust, rot, mildew, or warp. This is a quality product that left our factory in good condition – proper handling and installation are just as important as good design and workmanship. Please follow these recommendations to allow this product to complete its function.

1. Handle units one at a time in the closed and locked position and take care not to scratch frame or glass or to bend the nailing fin.

2. Set unit plumb and square into opening and make sure that there is 3/16" ± 1/16" clearance around the frame. Fasten unit into opening in the closed and locked position, making sure that fasteners are screwed in straight in order to avoid twisting or bowing of the frame. Make sure that sill is straight and level. Check operation of unit before any and all fasteners are set.

3. Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the framing (stud). Place first screws (two at each corner) 3" from end of fin. For positive and negative DPs (design pressures) up to **35**, do not exceed **24"** spacing of additional screws. For DPs from **35.1** to **50**, do not exceed **18"**. Install load bearing shim adjacent to each anchor. Use shim where space exceeds 1/16".

4. Flash over head and caulk outside perimeter in accordance with code requirements and good installation practices.

5. Fill voids between frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows and doors to eliminate drafts. The use of expanding aerosol type insulating foam, which can bow the frame, waives all stated warranties.

6. Remove plaster, mortar, paint and any other debris that may have collected on the unit and make sure that sash/vent tracks and interlocks are also clear. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass: scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent as you would you automobile.

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Corporate Headquarters:
650 West Market St.
Gratz, PA 17030-0370
(717) 365-3300

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

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 450/650/850
TYPE: H-C30 54 x 90; H-C40 52 x 72*

	Summary of Results	
Title of Test	Test Specimen #1	Test Specimen #2
AAMA Rating	H-C30 54 x 90	H-C40 52 x 72*
Uniform Load Deflection Test Pressure	35.0 psf	47.0 psf
Operating Force	20 lb max.	N/A
Air Infiltration	0.27 cfm/ft^2	N/A
Water Resistance Test Pressure	5.25 psf	6.0 psf
Uniform Structural Load Test Pressure	45.0 psf	70.5 psf
Deglazing	Passed	N/A
Forced Entry Resistance	Grade 10	N/A

Reference should be made to ATI Report No. 01-37589.02 for complete test specimen description and data.

Allen M. Reuss
24 JUNE 2002

Architectural Testing

TEST REPORT

Rendered to:

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

Report No: 01-37589.02
Test Date: 06/15/00
Thru: 06/29/00
Report Date: 06/06/02
Expiration Date: 06/29/04

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness performance testing on two Series/Model 450/650/850, aluminum single hung windows at their facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: H-C30 54 x 90; Test Specimen #2: H-C40 52 x 72*.

General Note: An asterisk (*) next to the performance grade indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.

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

Test Specimen Description

Series/Model: 450/650/850

Type: Aluminum Single Hung Window

Test Specimen #1: Gateway Performance Specimen H-C30 54 x 90 rating

Overall Size: 4' 6-1/2" wide by 7' 6-1/2" high

Active Sash Size: 4' 4" wide by 3' 9-3/4" high

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

Screen Size: 4' 2-1/4" wide by 3' 8-1/2" high

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allen N. Reuss
28 JUNE 2002

Test Specimen Description: (Continued)

Test Specimen #2: H-C40 52 x 72*

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

Active Sash Size: 4' 2" wide by 3' 0-1/2" high

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

Screen Size: 4' 0" wide by 2' 11" high

The following descriptions apply to all specimens.

Finish: All aluminum was painted.

Glazing Details: The lites utilized 5/8" thick sealed insulating glass units fabricated from two sheets of 3/32" clear annealed glass and an intercept™ spacer system. The sash was channel glazed with a flexible gasket. The fixed lite was interior glazed onto single-sided adhesive foam tape and secured with extruded PVC glazing beads.

Weatherstripping:

Description	Quantity	Location
0.210" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Stiles
0.300" diameter by 0.187" backed foam filled vinyl bulb gasket	1 Row	Bottom rail
0.400" high by 1/2" square polypile dust plug	4	One on each sash corner

Frame Construction: Series/Model 450 frame was constructed of thermally broken extruded aluminum with coped, butted and sealed corners. The fixed meeting rail was constructed of an extruded aluminum member with coped, butted and sealed ends fastened with two #8 x 1/4" screws. Series/Model 650 frame was constructed of extruded aluminum. Series/Model 850 frame was constructed of thermally broken extruded aluminum members.

Sash Construction: The Series/Model 450 sash members were constructed of thermally broken extruded aluminum members with coped, butted and sealed corners fastened with one #8 x 1-1/4" screw. Series/Model 650 sash was constructed of extruded aluminum. Series/Model 850 sash was constructed of extruded aluminum.

Screen Construction: The screen was constructed of rolled-aluminum members with plastic keyed corners. The fiberglass mesh was secured with a flexible spline.

Allen M. Reese
28 JUNE 2002

Test Specimen Description: (Continued)

Test Specimen #2: H-C40 52 x 72*

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

Active Sash Size: 4' 2" wide by 3' 0-1/2" high

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

Screen Size: 4' 0" wide by 2' 11" high

The following descriptions apply to all specimens.

Finish: All aluminum was painted.

Glazing Details: The lites utilized 5/8" thick sealed insulating glass units fabricated from two sheets of 3/32" clear annealed glass and an intercept™ spacer system. The sash was channel glazed with a flexible gasket. The fixed lite was interior glazed onto single-sided adhesive foam tape and secured with extruded PVC glazing beads.

Weatherstripping:

Description	Quantity	Location
0.210" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Stiles
0.300" diameter by 0.187" backed foam filled vinyl bulb gasket	1 Row	Bottom rail
0.400" high by 1/2" square polypile dust plug	4	One on each sash corner

Frame Construction: Series/Model 450 frame was constructed of thermally broken extruded aluminum with coped, butted and sealed corners. The fixed meeting rail was constructed of an extruded aluminum member with coped, butted and sealed ends fastened with two #8 x 1/4" screws. Series/Model 650 frame was constructed of extruded aluminum. Series/Model 850 frame was constructed of thermally broken extruded aluminum members.

Sash Construction: The Series/Model 450 sash members were constructed of thermally broken extruded aluminum members with coped, butted and sealed corners fastened with one #8 x 1-1/4" screw. Series/Model 650 sash was constructed of extruded aluminum. Series/Model 850 sash was constructed of extruded aluminum.

Screen Construction: The screen was constructed of rolled-aluminum members with plastic keyed corners. The fiberglass mesh was secured with a flexible spline.

Allen M. Reeves
29 JUNE 2012

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Plastic snap latch	1	Midspan of bottom rail
Block and tackle balance system	2	One per jamb
Plastic tilt latch	2	One on each end of sash meeting rail
Metal pivot bar	2	One on each end of bottom rail

Drainage: Sloped sill

Reinforcement: No reinforcement.

Installation: The test unit was installed into the nominal 2" x 8" Spruce-Pine-Fir #2 wood test buck utilizing the nailing fin secured with 1" long galvanized roofing nails, 6" from each corner and every 18" on center. The nailing fin was also bedded in polyurethane. The exterior perimeter was blind stopped with wood members and secured with #8 x 3" screws every 24" on center.

Test Results:

The results are tabulated as follows

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: Gateway Performance Specimen H-C30 54 x 90			
2.2.1.6.1	Operating Force	20 lbs	45 lbs max
	Air Infiltration (ASTM E 283) @ 1.57 psf (25 mph)	0.27 cfm/ft^2	0.30 cfm/ft^2 max.
	Water Resistance (ASTM E 547) (with and without screen) WTP = 4.5 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail) (Loads were held for 33 seconds)		
	@ 35.0 psf (positive)	0.27"	0.36" max.
	@ 35.0 psf (negative)	0.73"*	0.30" max.

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

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

Allen M. Russ
24 JUNE 2002

Test Results:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: Gateway Performance Specimen H-C30 54 x 90 (Continued)			
2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	@ 45.0 psf (positive)	0.03"	0.21" max
	@ 45.0 psf (negative)	0.04"	0.21" max
2.2.1.6.2	Deglazing Test (ASTM E 987-88) In operating direction at 70 lbs		
	Meeting rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 thru A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Allen N. Reuss
24 JUNE 2002

Test Results:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: Gateway Performance Specimen H-C30 54 x 90 (Continued)			
Optional Performance			
4.3	Water Resistance (ASTM E 547) (with and without screen) WTP = 5.25 psf	No leakage	No leakage
Test Specimen #2: H-C40 52 x 72*			
Optional Performance			
4.3	Water Resistance (ASTM E 547 and ASTM E 331) (with and without screen) WTP = 6.0 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330) (Measurements reported were taken on the fixed meeting rail) (Loads were held for 33 seconds)		
	@ 47.0 psf (positive)	0.04"	0.30" max
	@ 47.0 psf (negative)	0.03"	0.30" max
	Uniform Load Structural (ASTM E 330) (Measurements reported were taken on the fixed meeting rail) (Loads were held for 10 seconds)		
	@ 70.5 psf (positive)	0.07"	0.21" max.
	@ 70.5 psf (negative)	0.04"	0.21" max.

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

For ARCHITECTURAL TESTING, INC

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
24 JUNE 2002

MAH:baw
01-37589.02

DOCUMENT CONTROL ADDENDUM #01-37589.00

Current Issue Date: 06/06/02

Report No.: 01-37589.01

Requested by: Scott Gill, MI Home Products, Inc.
Purpose: AAMA/NWWDA 101/I.S.2-97 testing on Series/Model 450, aluminum single hung window.
Issued Date: 09/11/00
Comments: Certification copy to John Smith at Associated Laboratories, Inc.

Report No.: 01-37589.02

Requested by: William Emley, MI Home Products, Inc.
Purpose: Revised Report No. 01-37589.01.
Issued Date: 06/06/02
Comments: Added Series/Model 650/850. Florida P.E. seal required on report Certification copy to John Smith at Associated Laboratories, Inc.

Allan N. Rosen
7th JUNE 2002

Location: _____ **Project Name:** Keith Thompson

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	MI Home Products	Exterior Door	FL 18
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	MI Home Products	~~Ext. Door~~ Aluminum	~~FL 18~~ FL 663
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Heritage	shingles	FL 673
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

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

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

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

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

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS; Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☑	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, I_w, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m^2) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
		Elevations including:
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation

☐ ☐ d) Location, size and height above roof of chimneys.

☐ ☐ e) Location and size of skylights

☐ ☐ f) Building height

☐ ☐ e) Number of stories

Floor Plan including:

☐ ☐ a) Rooms labeled and dimensioned.

☐ ☐ b) Shear walls identified.

☐ ☐ c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 **(see attach forms).**

☐ ☐ d) Show safety glazing of glass, where required by code.

☐ ☐ e) Identify egress windows in bedrooms, and size.

☐ ☐ f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, **(Please circle applicable type).**

☐ ☐ g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.

☐ ☐ h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

☐ ☐ a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.

☐ ☐ b) All posts and/or column footing including size and reinforcing

☐ ☐ c) Any special support required by soil analysis such as piling

☐ ☐ d) Location of any vertical steel.

Roof System:

☐ ☐ a) Truss package including:

1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

☐ ☐ b) Conventional Framing Layout including:

1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

☐ ☐ a) Masonry wall

1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

a. Attic space
b. Exterior wall cavity
c. Crawl space (if applicable)

☑ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☐ ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

☑ ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☑ ☐ e) Wind load requirements where applicable

☐ ☐ **Plumbing Fixture layout**

Electrical layout including:

☑ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☑ ☐ b) Ceiling fans

☑ ☐ c) Smoke detectors

☑ ☐ d) Service panel and sub-panel size and location(s)

☑ ☐ e) Meter location with type of service entrance (overhead or underground)

☑ ☐ f) Appliances and HVAC equipment

☑ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

☑ ☐ h) Exhaust fans in bathroom

HVAC information

☑ ☐ a) Energy Calculations (dimensions shall match plans)

☐ ☐ b) Manual J sizing equipment or equivalent computation

☐ ☐ c)Gas System Type (LP or Natural) Location and BTU demand of equipment

☐ ☐ **Disclosure Statement for Owner Builders**

☐ ☐ ***Notice Of Commencement Required Before Any Inspections Will Be Done

☐ ☐ **Private Potable Water**

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:1TE78228Z0517081040

Truss Fabricator:	Anderson Truss Company
Job Identification:	8-021--Fill in later TAYLOR -- , **
Truss Count:	16
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.36.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

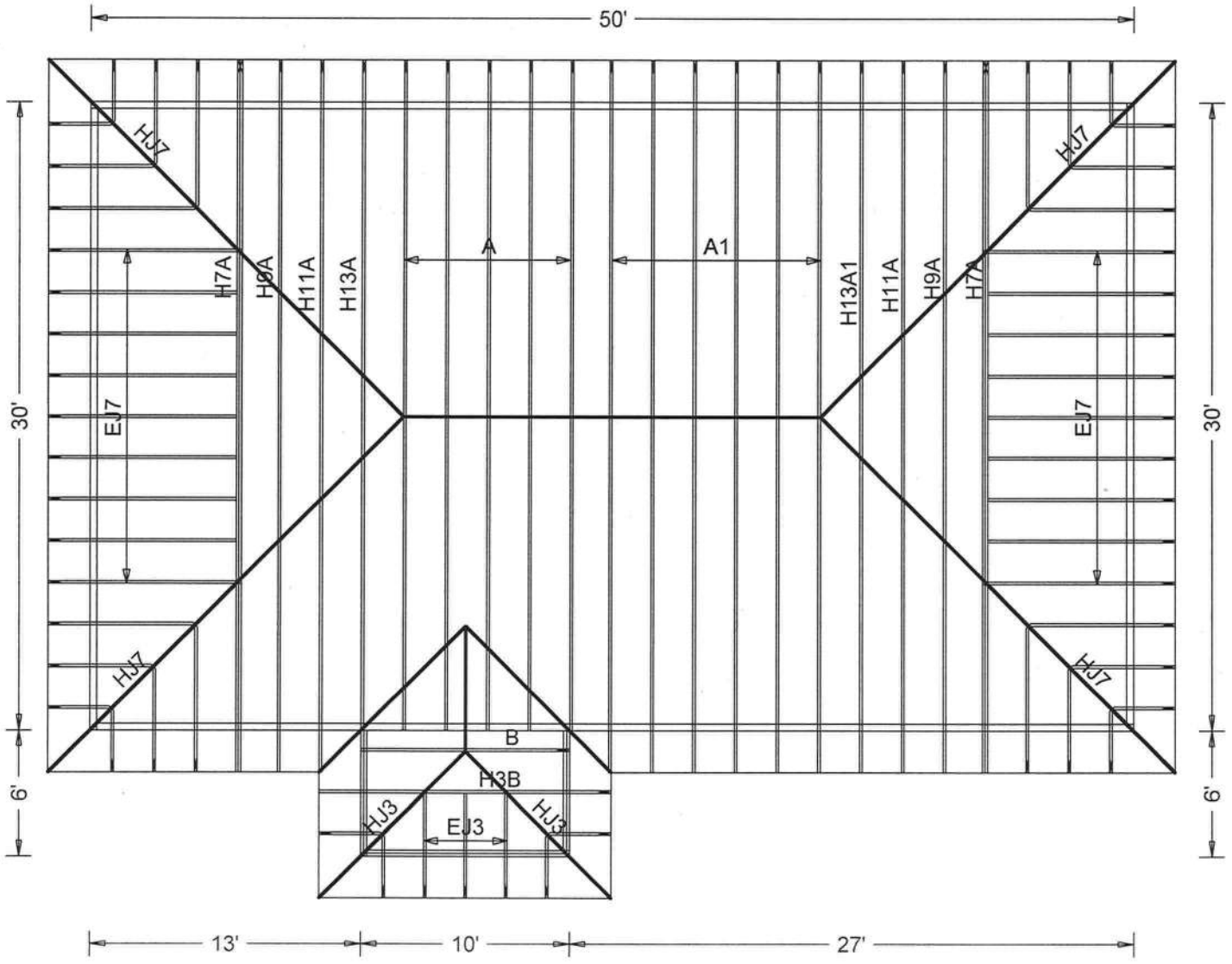
Seal Date: 01/17/2008

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

Details: -

#	Ref Description	Drawing#	Date
1	12028--A1	08017007	01/17/08
2	12029--A	08017008	01/17/08
3	12030--H7A	08017018	01/17/08
4	12031--H9A	08017009	01/17/08
5	12032--H11A	08017010	01/17/08
6	12033--H13A	08017011	01/17/08
7	12034--H13A1	08017012	01/17/08
8	12035--B	08017013	01/17/08
9	12036--H3B	08017019	01/17/08
10	12037--EJ7	08017014	01/17/08
11	12038--CJ5	08017015	01/17/08
12	12039--HJ7	08017020	01/17/08
13	12040--CJ3	08017016	01/17/08
14	12041--CJ1	08017021	01/17/08
15	12042--HJ3	08017022	01/17/08
16	12043--EJ3	08017017	01/17/08

Roof Plane Sheathing Area = 2080 sq. ft
Total Sheathing Area = 2080 sq. ft
Fascia Material = 188 linear ft
Valley Flashing Material = 21 linear ft
Ridge Cap Material = 26 linear ft
Hip Ridge Material = 121 linear ft



DION TAYLOR / TAYLOR 1/16/08

JOB DESCRIPTION:: Fill in later
/: TAYLOR

JOB NO:
8-021

PAGE NO:
1 OF 1

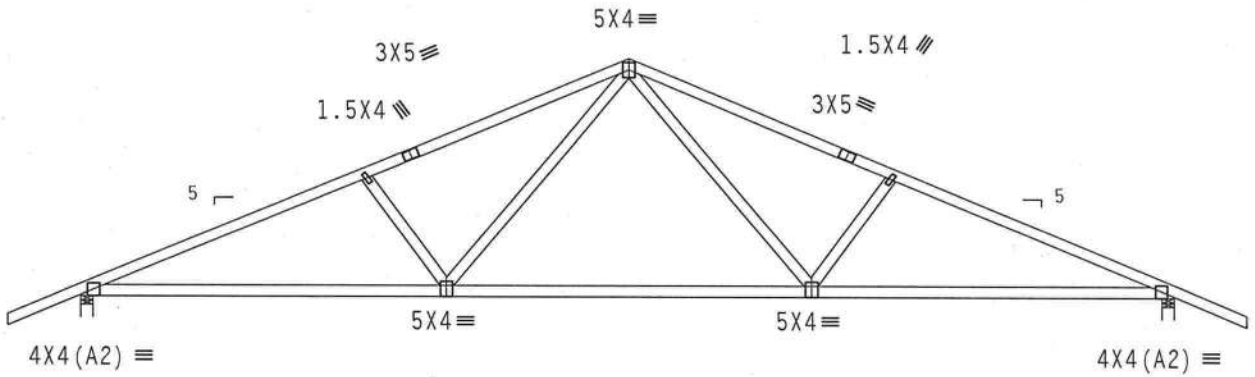
(8-021--Fill in later TAYLOR -- , ** - A1)

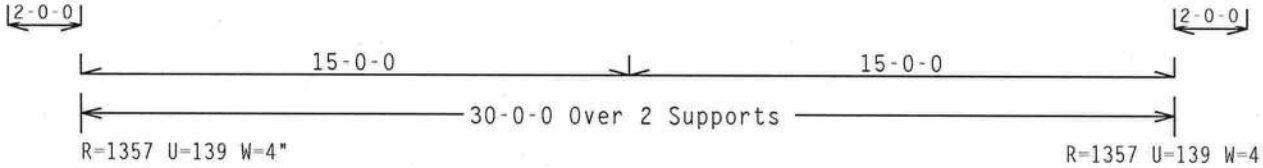
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.36.043 QTY:6 FL/-/4/-/-/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.

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 (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
17 '08

TC LL	20.0 PSF	REF	R8228- 12028
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017007
BC LL	0.0 PSF	HC-ENG	TCE/DF *
TOT.LD.	40.0 PSF	SEQN-	27848
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

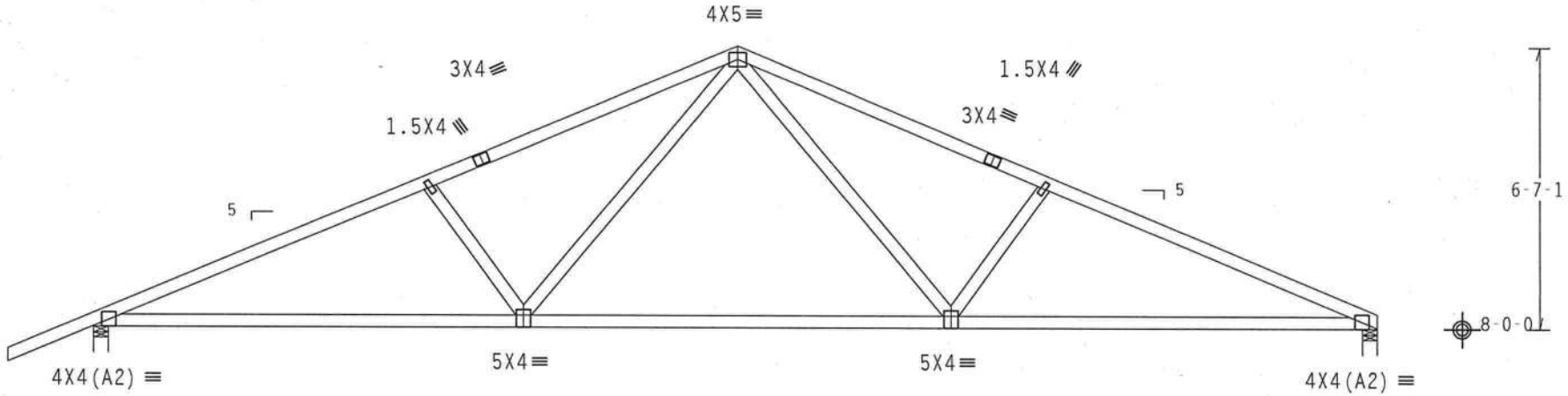
(8-021--Fill in later TAYLOR -- , ** - A)

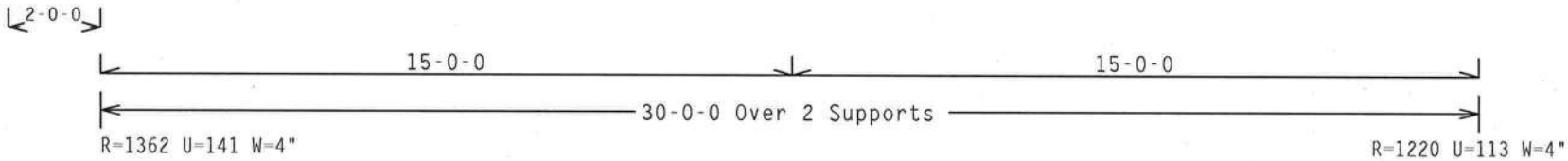
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:5 FL/-/4/-/-/R/- Scale =.25"/Ft.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
17 '08

TC LL	20.0 PSF	REF	R8228- 12029
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017008
BC LL	0.0 PSF	HC-ENG	TCE/DF *
TOT.LD.	40.0 PSF	SEQN-	27853
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - H7A)

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

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

Wind reactions based on MWFRS pressures.

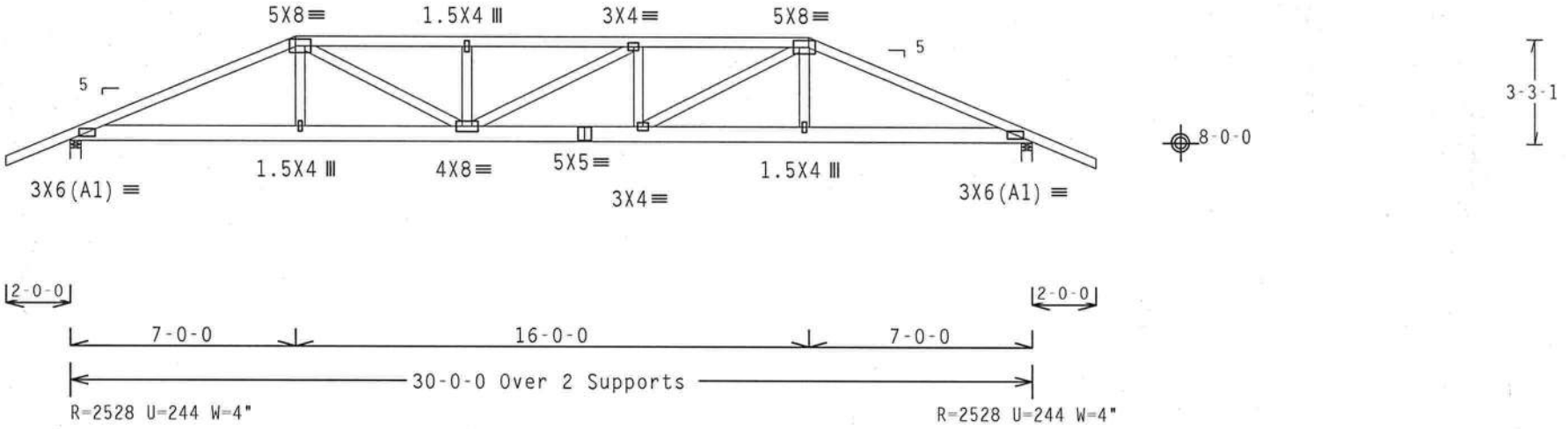
#1 hip supports 7-0-0 jacks with no webs.

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

2 COMPLETE TRUSSES REQUIRED

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

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:2 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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FL Certificate of Authorization # 0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 17 '08

TC LL	20.0 PSF	REF	R8228- 12030
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017018
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT.LD.	40.0 PSF	SEQN-	27884
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - H9A)

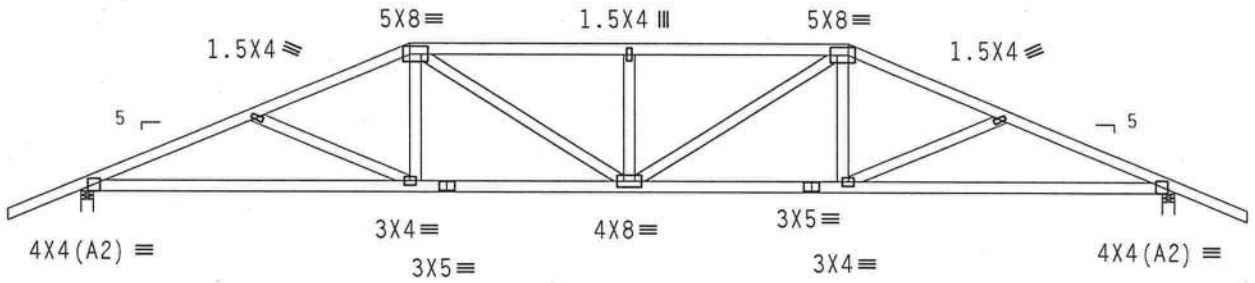
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

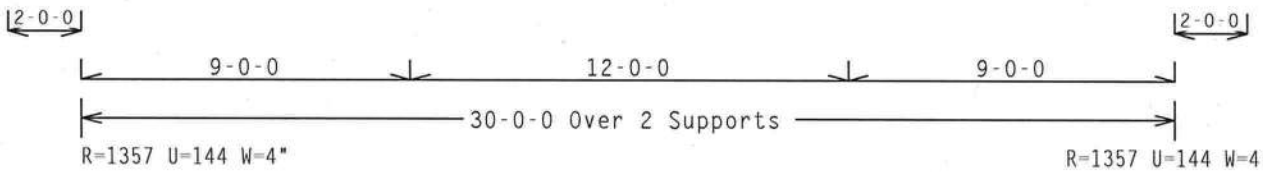
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

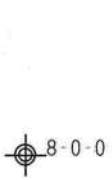
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

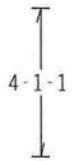
Wind reactions based on MWFRS pressures.

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









Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04 [illegible]

PLT TYP. Wave

QTY:2 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

17 '08

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R8228- 12031
DATE	01/17/08
DRW	HCUSR8228 08017009
HC-ENG	TCE/DF *
SEQN-	27889
JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - H11A)

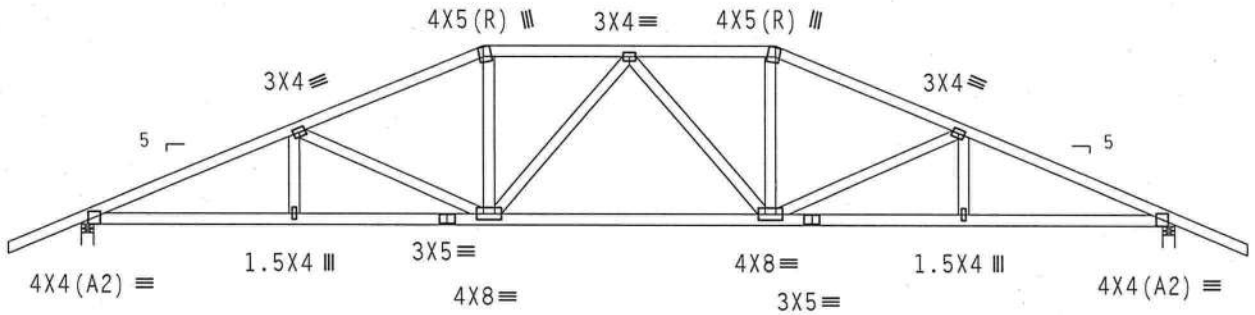
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

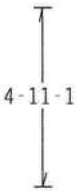
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

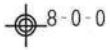
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

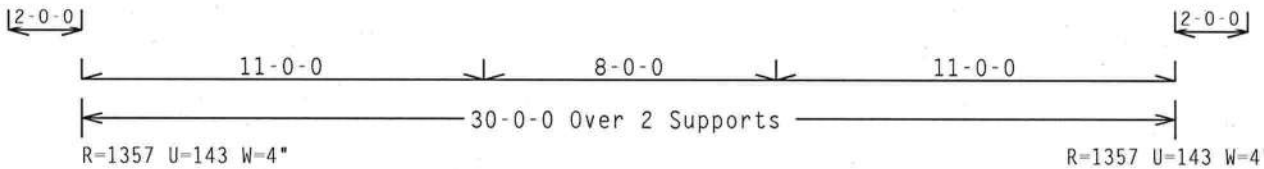
Wind reactions based on MWFRS pressures.

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









Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave

QTY:2 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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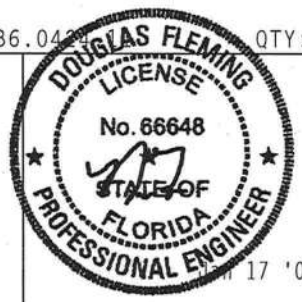


17 '08

TC LL	20.0 PSF	REF R8228- 12032
TC DL	10.0 PSF	DATE 01/17/08
BC DL	10.0 PSF	DRW HCUSR8228 08017010
BC LL	0.0 PSF	HC-ENG TCE/DF *
TOT.LD.	40.0 PSF	SEQN- 27894
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - H13A)

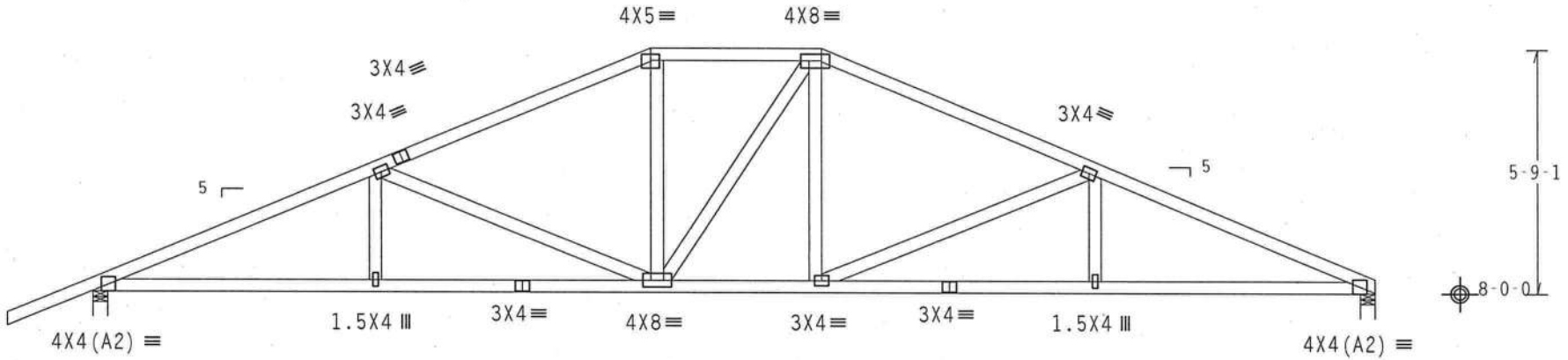
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

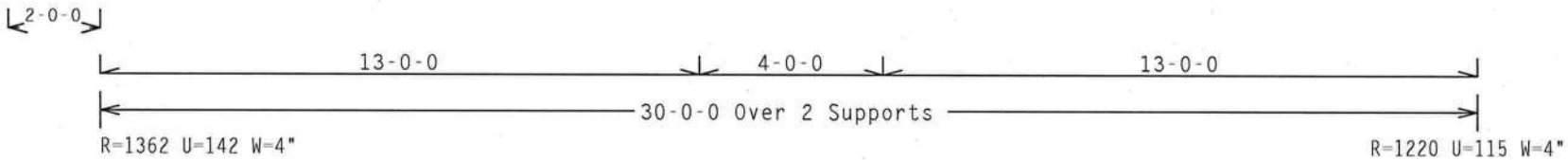
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave

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

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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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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.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
17 '08

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R8228- 12033
DATE	01/17/08
DRW	HCUSR8228 08017011
HC-ENG	TCE/DF *
SEQN-	27902
JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - H13A1)

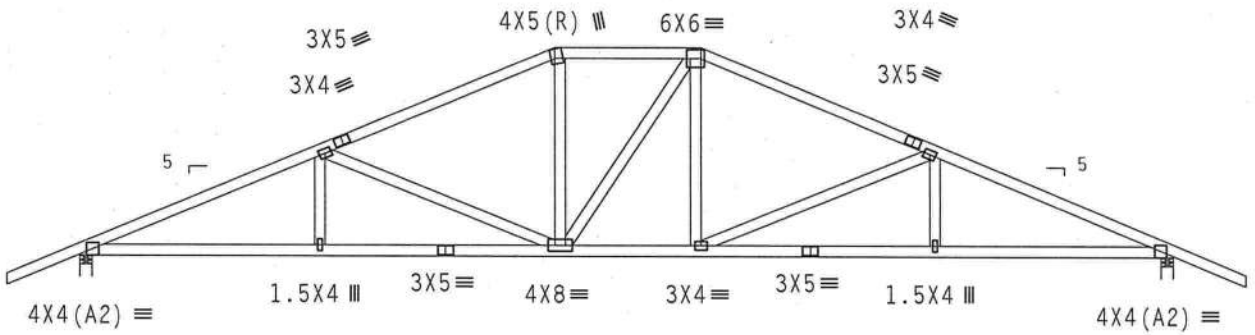
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

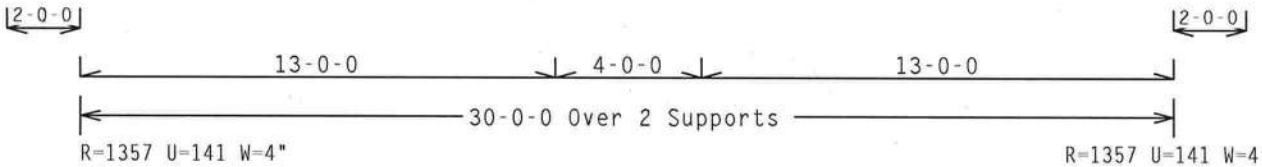
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

Wind reactions based on MWFRS pressures.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.36.04 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
17 '08

TC LL	20.0 PSF	REF R8228- 12034
TC DL	10.0 PSF	DATE 01/17/08
BC DL	10.0 PSF	DRW HCUSR8228 08017012
BC LL	0.0 PSF	HC-ENG TCE/DF *
TOT.LD.	40.0 PSF	SEQN- 27909
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TE78228Z05

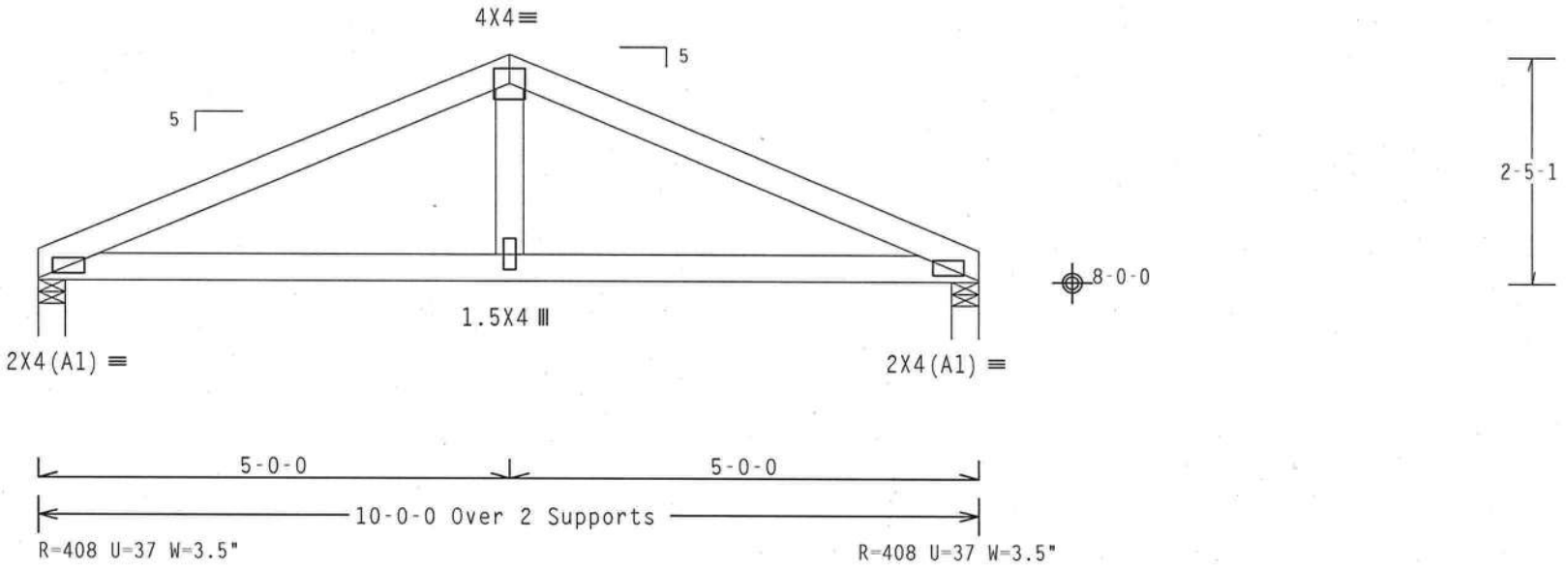
(8-021--Fill in later TAYLOR -- , ** - B)

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

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

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.042

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

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

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
17 '08

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R8228- 12035
DATE	01/17/08
DRW	HCUSR8228 08017013
HC-ENG	TCE/DF *
SEQN-	27913
JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - H3B)

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

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

Wind reactions based on MWFRS pressures.

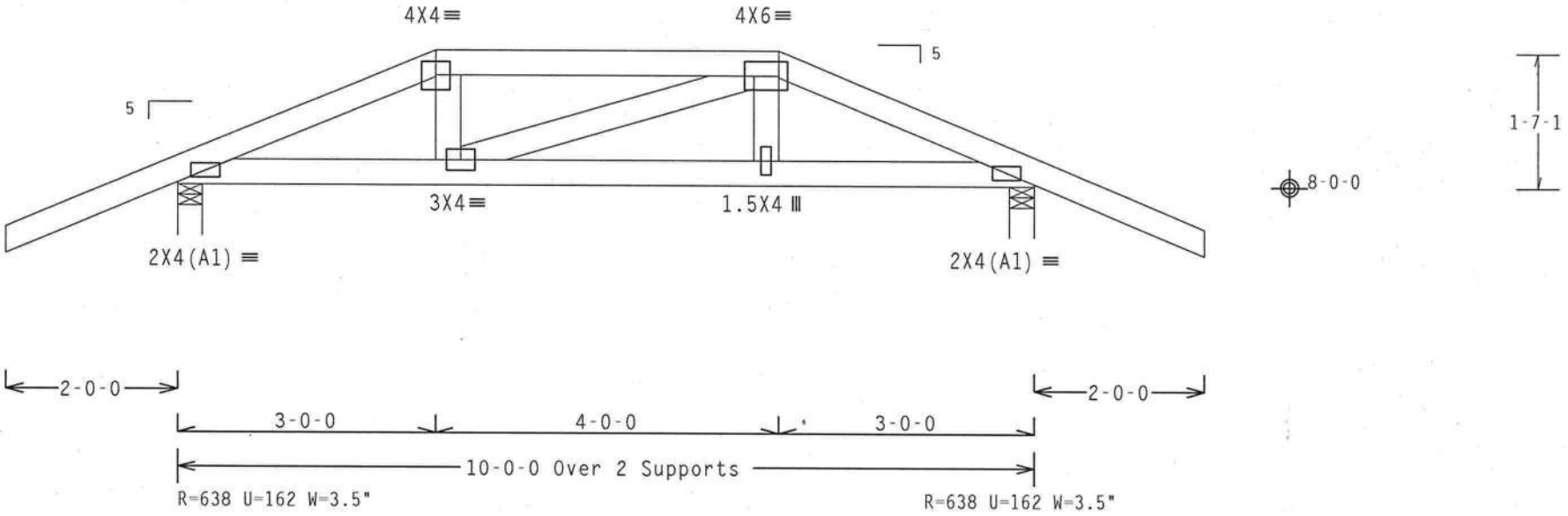
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

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

TC	From	62 PLF	at -2.00	to	62 PLF	at 3.00
TC	From	62 PLF	at 3.00	to	62 PLF	at 7.00
TC	From	62 PLF	at 7.00	to	62 PLF	at 12.00
BC	From	4 PLF	at -2.00	to	4 PLF	at 0.00
BC	From	20 PLF	at 0.00	to	20 PLF	at 10.00
BC	From	4 PLF	at 10.00	to	4 PLF	at 12.00

TC	72 LB	Conc. Load	at 3.06,	6.94	
TC	49 LB	Conc. Load	at 5.00		
BC	-21 LB	Conc. Load	at 3.00,	7.00	
BC	15 LB	Conc. Load	at 3.06,	5.00,	6.94



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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DOUGLAS FLEMING LICENSE No.66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
1/17 '08

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF R8228- 12036
DATE 01/17/08
DRW HCUSR8228 08017019
HC-ENG TCE/DF
SEQN- 27926
JREF- 1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - EJ7)

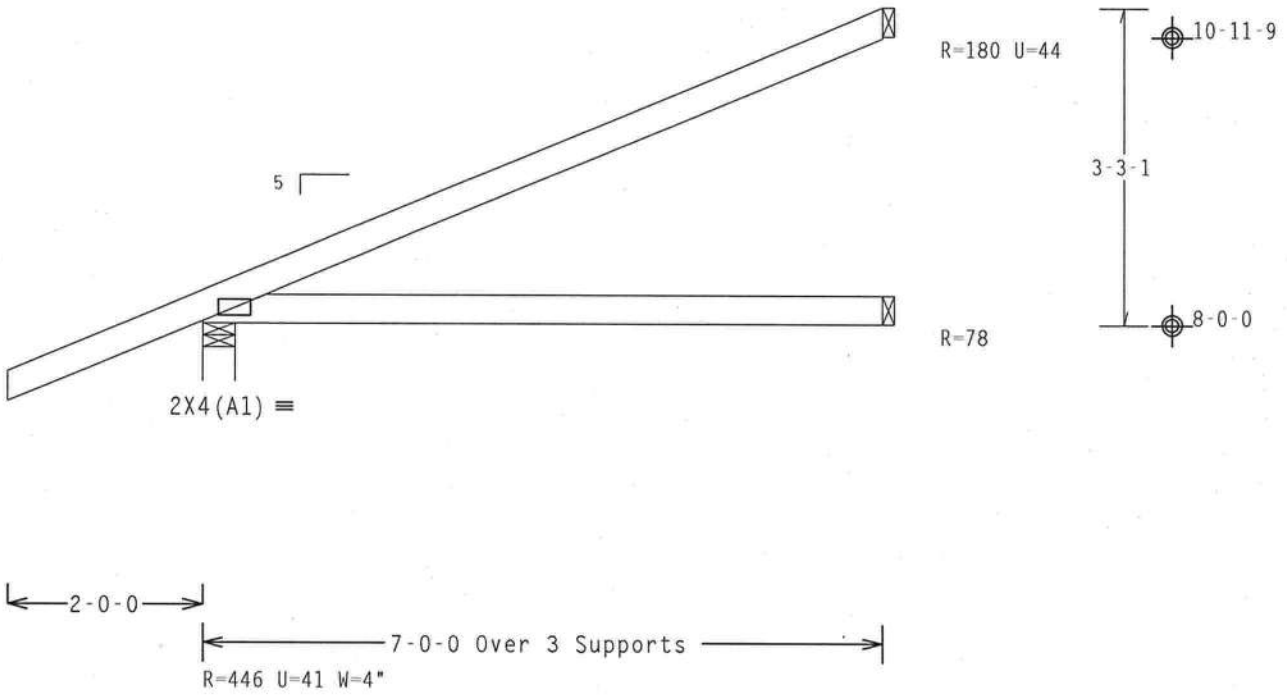
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.043

PLT TYP. Wave

QTY:18 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
1/17 '08

TC LL	20.0 PSF	REF	R8228- 12037
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017014
BC LL	0.0 PSF	HC-ENG	TCE/DF *
TOT.LD.	40.0 PSF	SEQN-	27857
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - CJ5)

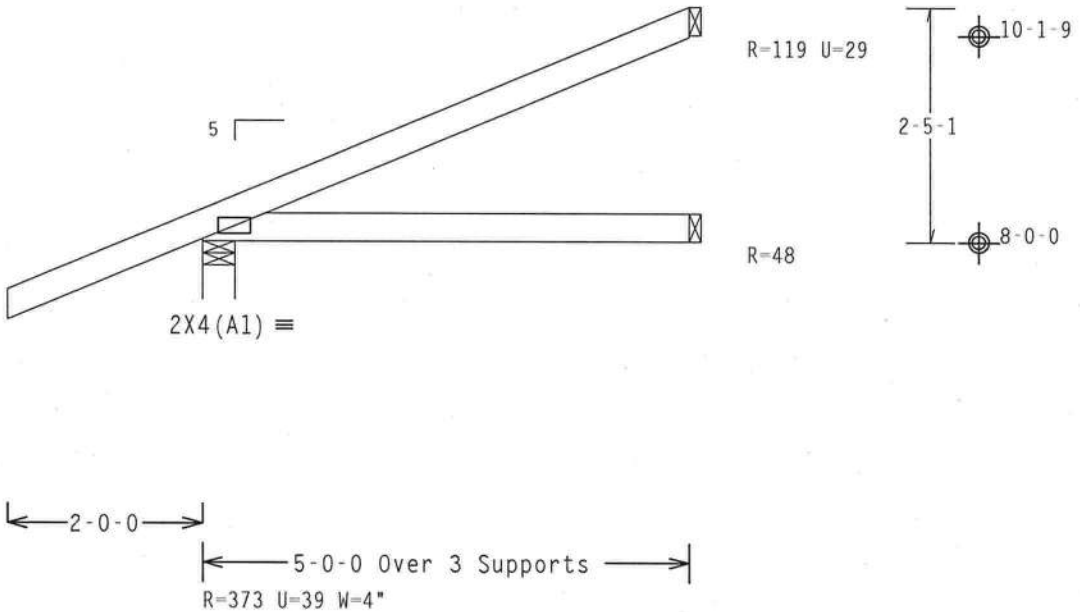
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

PLT TYP. Wave QTY:8 FL/-/4/-/-/R/- Scale =.5"/Ft.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 17 '08

TC LL	20.0 PSF	REF	R8228- 12038
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017015
BC LL	0.0 PSF	HC-ENG	TCE/DF *
TOT.LD.	40.0 PSF	SEQN-	27862
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - HJ7)

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

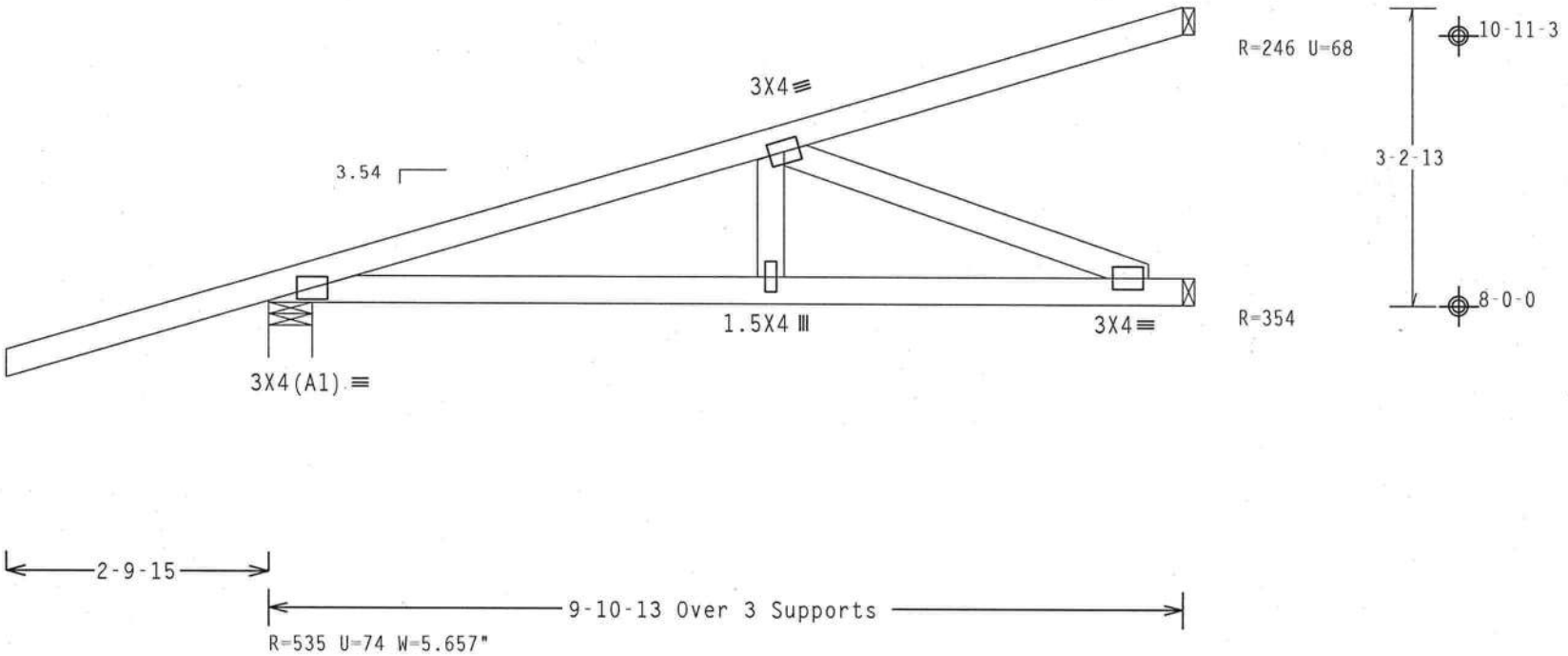
Hipjack supports 7-0-0 setback jacks with no webs.

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

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

Wind reactions based on MWFRS pressures.

Provide (3) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (3) 0.162x3.5" 16d Common toe-nails at Bottom Chord.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.04

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

ALPINE
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 17 '08

TC LL	20.0 PSF	REF R8228- 12039
TC DL	10.0 PSF	DATE 01/17/08
BC DL	10.0 PSF	DRW HCUSR8228 08017020
BC LL	0.0 PSF	HC-ENG TCE/DF
TOT.LD.	40.0 PSF	SEQN- 27879
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - CJ3)

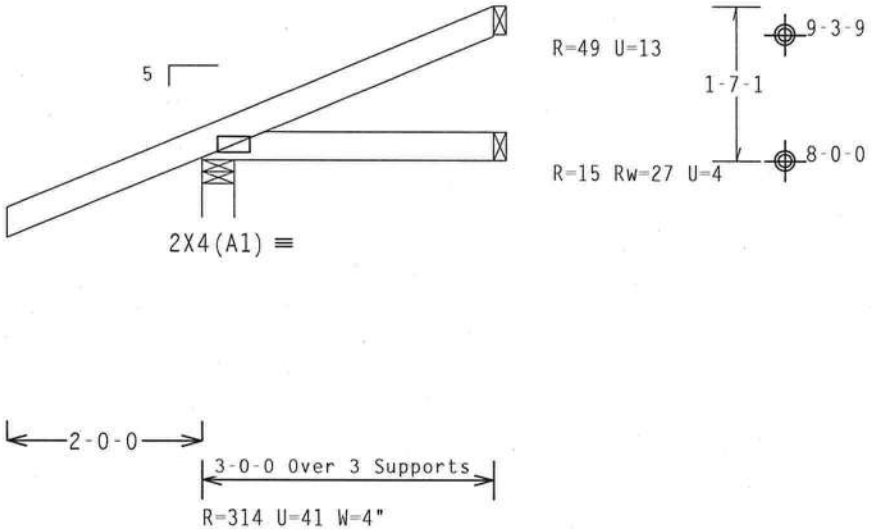
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.043

PLT TYP. Wave QTY:8 FL/-/4/-/-/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.

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 TPI1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 17 '08

TC LL	20.0 PSF	REF	R8228- 12040
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017016
BC LL	0.0 PSF	HC-ENG	TCE/DF *
TOT.LD.	40.0 PSF	SEQN-	27867
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - CJ1)

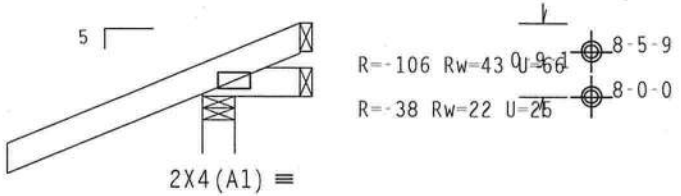
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

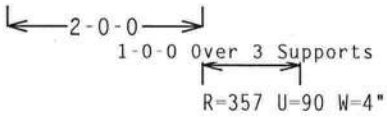
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

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

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.042 QTY:12 FL/-/4/-/-/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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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
17 '08

TC LL	20.0 PSF	REF	R8228- 12041
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017021
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT.LD.	40.0 PSF	SEQN-	27871
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - HJ3)

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

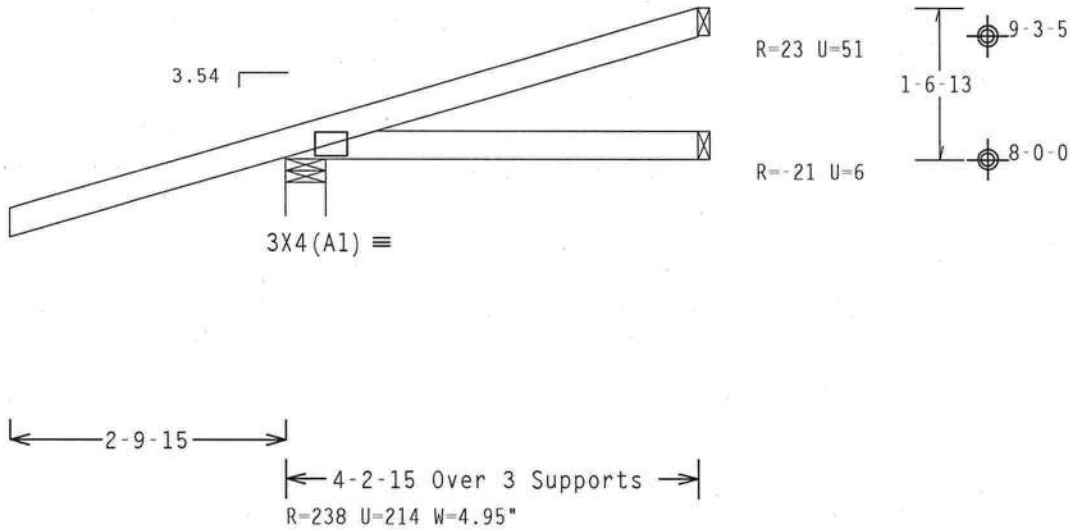
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at -2.83 to 61 PLF at 4.24
BC - From 4 PLF at -2.83 to 4 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 4.24
TC - -211 LB Conc. Load at 1.48
BC - -75 LB Conc. Load at 1.48

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.04 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
M 17 '08

TC LL	20.0 PSF	REF	R8228- 12042
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017022
BC LL	0.0 PSF		HC-ENG TCE/DF
TOT.LD.	40.0 PSF	SEQN-	27922
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

(8-021--Fill in later TAYLOR -- , ** - EJ3)

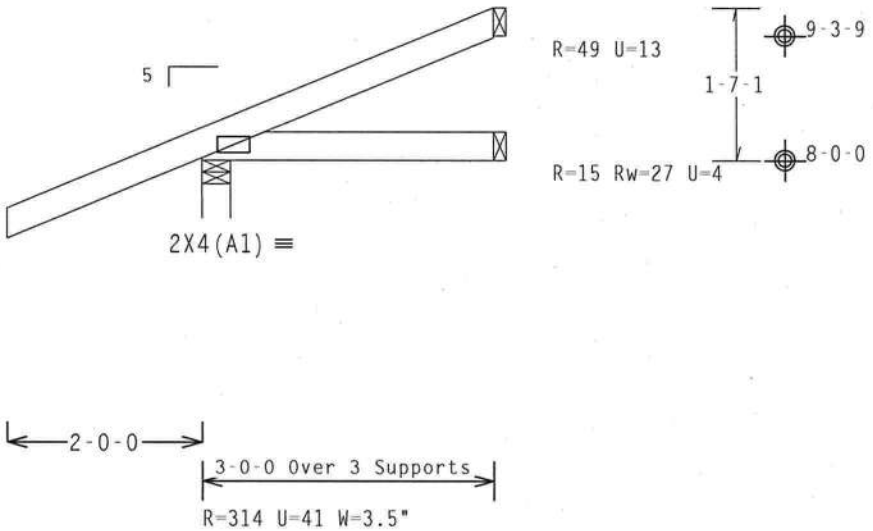
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

Provide (2) 0.162x3.5" 16d Common toe-nails at Top Chord.
Provide (2) 0.162x3.5" 16d Common toe-nails at Bottom Chord.

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

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.36.042

PLT TYP. Wave QTY:3 FL/-/4/-/-/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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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 17 '08

TC LL	20.0 PSF	REF	R8228- 12043
TC DL	10.0 PSF	DATE	01/17/08
BC DL	10.0 PSF	DRW	HCUSR8228 08017017
BC LL	0.0 PSF	HC-ENG	TCE/DF *
TOT.LD.	40.0 PSF	SEQN-	27917
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TE78228Z05

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 01-4S-15-00314-012 **Building permit No.** 000026698

Use Classification SFD/UTILITY **Fire:** 6.42

Permit Holder DION TAYLOR **Waste:** 16.75

Owner of Building KEITH THOMPSON **Total:** 23.17

Location: 467 SW DIAMOND CT., LAKE CITY, FL

Date: 09/08/2009

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

DION TAYLOR

#26698

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:1TPF8228Z0123103206

Truss Fabricator:	Anderson Truss Company
Job Identification:	REPAIR / 8-021 - TAYLOR
Truss Count:	2
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	FBC CODE/TPI-2002(STD)
Engineering Software:	Alpine Software,Version 7.36.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Seal Date: 02/23/2009

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

Details: -

#	Ref	Description	Drawing#	Date
1	62700--A1		09054001	02/23/09
2	62700--H7A		09054002	02/23/09

Repair Charge: $41.25 per Customer Agreement.
Amount to be invoiced separately.

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

(8-021--Fill in later TAYLOR -- , ** - A1)

This truss is repaired for a chipped bottom chrod at the end of the bottom chord above the bearing as shown.
Note:damaged area is 0.5"x1.5" max at the end of the bottom chord

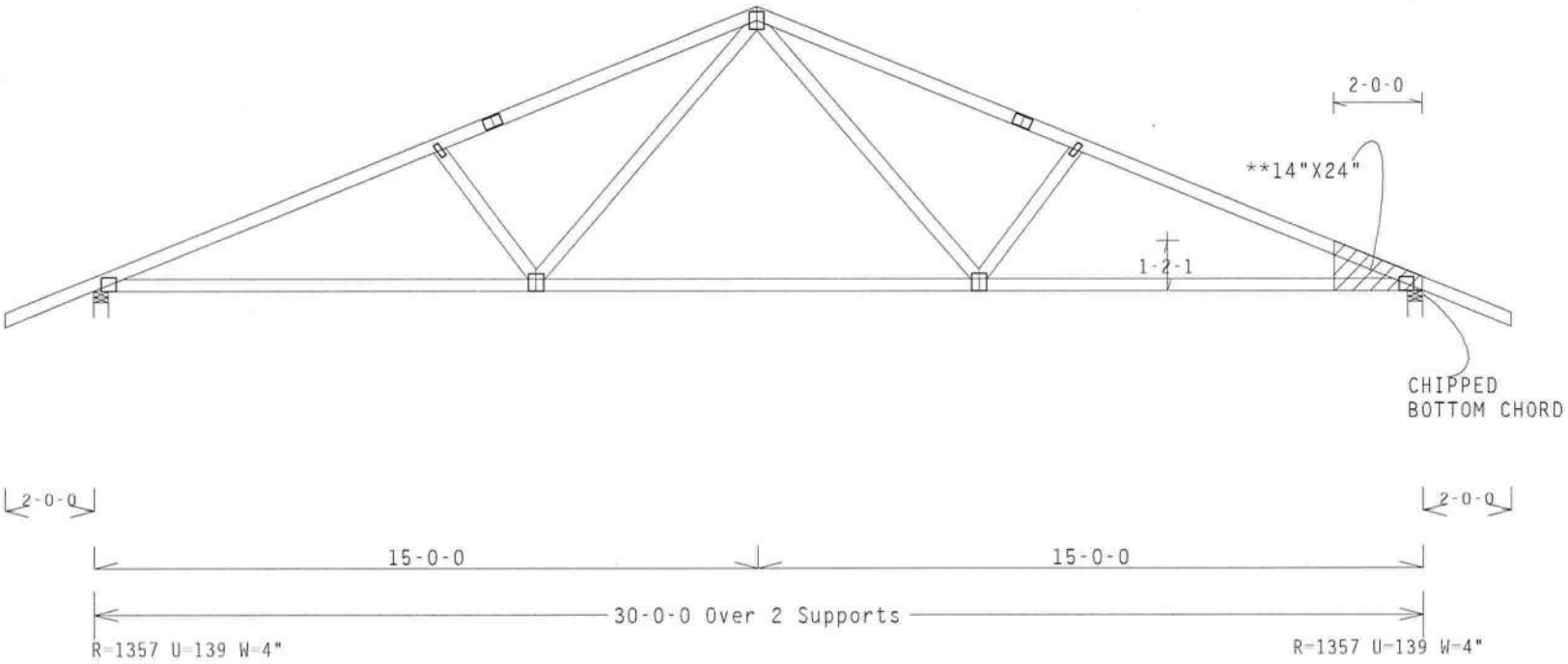
Refer to drawing R8228 08017007 for plates and other data not given here.

Repair(s) must comply with Alpine designs & specifications

Shore Truss and any supported spans in proper position as repair is being made.

THIS REPAIR IS ALSO GOOD FOR THE FOLLOWING TRUSS(ES):
TRUSS:A, DRW # HCUSR8228 08017008.
TRUSS:H9A, DRW # HCUSR8228 08017009.
TRUSS:H11A, DRW # HCUSR8228 08017010.
TRUSS:H13A, DRW # HCUSR8228 08017011.
TRUSS:H13A1, DRW # HCUSR8228 08017012.

** (2) NEW 3/4"X(SIZE SHOWN) TRIMMED TO FIT APA SPAN RATED 48/24 SHEATHING (PLYWOOD OR OSB). ATTACH ONE GUSSET TO EACH FACE OF THE TRUSS WITH 2 ROWS OF 0.113"X2.0" NAILS SPACED 3" OC PER ROW, STAGGERED THROUGHOUT ALL MEMBERS, WITHOUT SPLITTING THE LUMBER.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.36.00.0424.11 QTY:1 FL/-/4/-/-/R/F Scale =.25"/Ft.

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

TRUSS REPAIR

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

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

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
23 '09

TC LL	20.0 PSF	REF	R8228- 62700
TC DL	10.0 PSF	DATE	02/23/09
BC DL	10.0 PSF	DRW	HCUSR8228 09054001
BC LL	0.0 PSF	HC-ENG	DF/DF *
TOT.LD.	40.0 PSF	SEQN-	27848
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TPF8228Z01

(8-021--Fill in later TAYLOR -- , ** - H7A)

This truss is repaired for a chipped bottom chrod at the end of the bottom chord above the bearing as shown.
Note:damaged area is 0.5"x1.5" max at the end of the bottom chord

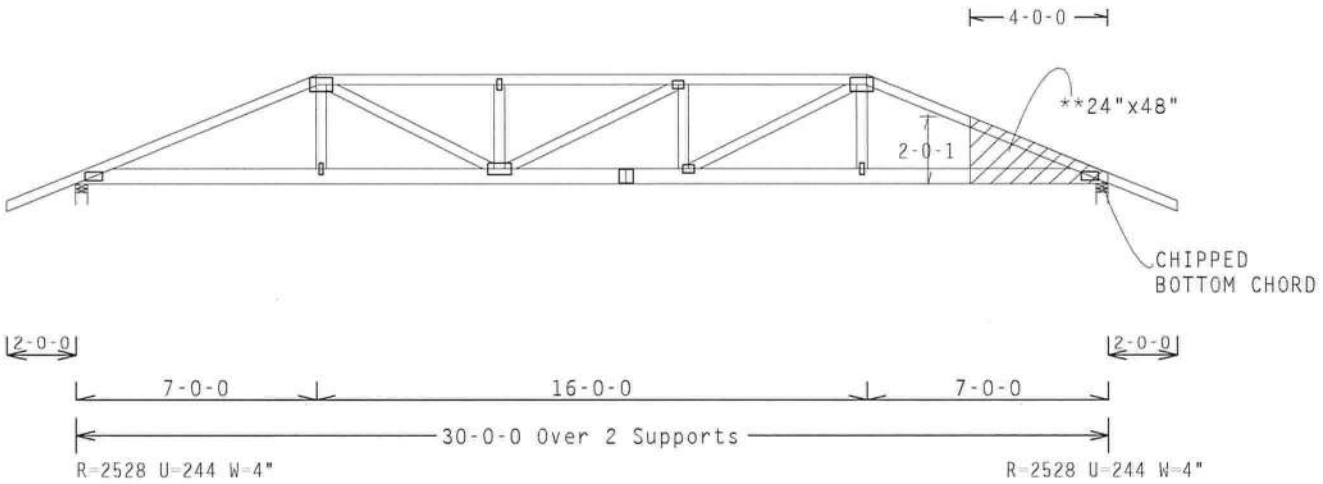
Refer to drawing R8228 08017007 for plates and other data not given here.

Repair(s) must comply with Alpine designs & specifications

Shore Truss and any supported spans in proper position as repair is being made.

2* COMPLETE TRUSSES REQUIRED

** NEW PANEL (SIZE SHOWN TRIMMED TO FIT) APA SPAN RATED 48/24 SHEATHING (PLYWOOD OR OSB). ATTACH ONE GUSSET TO EACH FACE OF THE TRUSS WITH 2 ROWS OF 0.113"X2.0" NAILS SPACED 3" OC PER ROW, STAGGERED THROUGHOUT ALL MEMBERS, WITHOUT SPLITTING THE LUMBER.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave | Cq/RT=1.00(1.25)/10(0) | 7.36.0424.11 | QTY:1 | FL/-/4/-/-/R/F | Scale =.1875"/Ft.

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

TRUSS REPAIR

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

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
23 '09

TC LL	20.0 PSF	REF	R8228- 62700
TC DL	10.0 PSF	DATE	02/23/09
BC DL	10.0 PSF	DRW	HCUSR8228 09054002
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	27884
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TPF8228Z01