

DATE 03/05/2007

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025591

APPLICANT LAMAR DUPREE PHONE 754-5678  
 ADDRESS 2902 W US HIGHWAY 90 LAKE CITY FL 32055  
 OWNER PHOENIX LAND DEVELOPMENT PHONE 754-5678  
 ADDRESS 188 SW BIRCH GLENN LAKE CITY FL 32055  
 CONTRACTOR JL DUPREE PHONE 7545678  
 LOCATION OF PROPERTY HIGHWAY 90 WEST, TL ON 252-B, TR ON DEPUTY J. DAVIS LANE,  
TL ON RED MAPLE WAY, TL ON BIRCH GLENN, 4TH ON RIGHT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 97950.00  
 HEATED FLOOR AREA 1959.00 TOTAL AREA 2617.00 HEIGHT 0.00 STORIES 1  
 FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB  
 LAND USE & ZONING RSF-2 MAX. HEIGHT 20  
 Minimum Set Back Requirements: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00  
 NO. EX.D.U. \_\_\_\_\_ FLOOD ZONE X DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 03-4S-16-02732-203 SUBDIVISION LAUREL LAKES  
 LOT 3 BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT 0 TOTAL ACRES \_\_\_\_\_

00001347 CGC060631 Joseph L. Dupree  
 Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor  
CULVERT X07-103 BK JH Y  
 Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD,

Check # or Cash 2638

## FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power \_\_\_\_\_ Foundation \_\_\_\_\_ Monolithic \_\_\_\_\_  
 date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Under slab rough-in plumbing \_\_\_\_\_ Slab \_\_\_\_\_ Sheathing/Nailing \_\_\_\_\_  
 date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Framing \_\_\_\_\_ Rough-in plumbing above slab and below wood floor \_\_\_\_\_  
 date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Electrical rough-in \_\_\_\_\_ Heat & Air Duct \_\_\_\_\_ Peri. beam (Lintel) \_\_\_\_\_  
 date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Permanent power \_\_\_\_\_ C.O. Final \_\_\_\_\_ Culvert \_\_\_\_\_  
 date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
 M/H tie downs, blocking, electricity and plumbing \_\_\_\_\_ Pool \_\_\_\_\_  
 date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
 Reconnection \_\_\_\_\_ Pump pole \_\_\_\_\_ Utility Pole \_\_\_\_\_  
 date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_  
 M/H Pole \_\_\_\_\_ Travel Trailer \_\_\_\_\_ Re-roof \_\_\_\_\_  
 date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_ date/app. by \_\_\_\_\_

BUILDING PERMIT FEE \$ 490.00 CERTIFICATION FEE \$ 13.09 SURCHARGE FEE \$ 13.09  
 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 \$ 25.00 TOTAL FEE 616.18

INSPECTORS OFFICE [Signature] CLERKS OFFICE CN

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

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

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

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

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

### Columbia County Building Permit Application

**For Office Use Only** Application # 0703-02 Date Received 3-1-07 By LH Permit # 25591/1347  
 Application Approved by - Zoning Official BLK Date 06.03.07 Plans Examiner OK JTH Date 3-5-07  
 Flood Zone X Pphd Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Lo-Den  
 Comments SITE PLAN ON PLAN  
 NOC  EH  Deed or PA  Site Plan  Plans  State Road Info  Parent Parcel #  Development Permit

Name Authorized Person Signing Permit Lamar DuPree Phone 386-754-5678

Address 2902 West US Highway 90, Lake City, Florida 32055

Owners Name Phoenix Land Development Phone \_\_\_\_\_

911 Address 188 SW Birch Glenn

Contractors Name J.L. DuPree Construction Phone 386-754-5678

Address 2902 West US Highway 90, Lake City, Florida 32055

Fee Simple Owner Name & Address \_\_\_\_\_

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Bill Freeman 305 East Duval Street

Mortgage Lenders Name & Address Columbia County Bank 127 West Hillshoro Street

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

Property ID Number 03-4s-16-02732-203 Estimated Cost of Construction \$91,000.00

Subdivision Name Laurel Lakes Lot 3 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase 2

Driving Directions Take 90 West to G-252 to SW Deputy J. Davis Lane to Laurel Lakes

Subdivision on the left. TL Red Maple Way, TL on Birch Glenn, 4th on right

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 0.50 Lot Size \_\_\_\_\_ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 27'9" Side 38'2" Side 38'2" Rear 97'

Total Building Height 20 Number of Stories 1 Heated Floor Area 1,454 1,959 Roof Pitch 8/12  
TOTAL 2,167

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

**OWNERS AFFIDAVIT:** I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

[Signature]  
Owner Builder or Authorized Person by Notarized Letter

[Signature]  
Contractor Signature  
Contractors License Number GC060631  
Competency Card Number \_\_\_\_\_  
NOTARY STAMP/SEAL

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
this 1 day of March 2007.

Personally known  or Produced Identification \_\_\_\_\_

[Signature]  
Notary Signature  
Shannon M Regar  
My Commission DD364938  
Expires October 21, 2008  
(Revised Sept. 2006)

# Columbia County Property Appraiser

DB Last Updated: 2/5/2007

## 2007 Proposed Values

Parcel: 03-4S-16-02732-203

Tax Record

Property Card

Interactive GIS Map

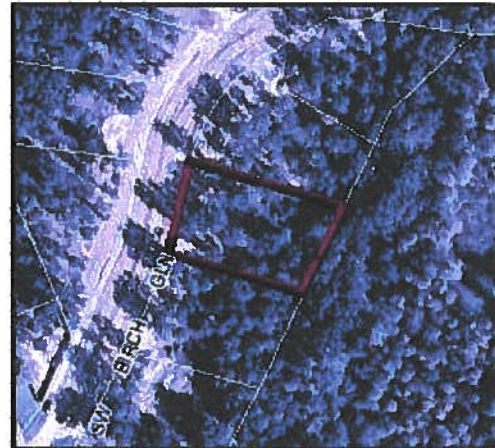
Print

### Owner & Property Info

Search Result: 1 of 1

<b>Owner's Name</b>	PHOENIX LAND DEVELOPMENT &		
<b>Site Address</b>	BIRCH		
<b>Mailing Address</b>	PROPERTY MANAGEMENT INC P O BOX 2187 LAKE CITY, FL 32056		
<b>Use Desc. (code)</b>	VACANT (000000)		
<b>Neighborhood</b>	3416.00	<b>Tax District</b>	2
<b>UD Codes</b>	MKTA06	<b>Market Area</b>	06
<b>Total Land Area</b>	0.500 ACRES		
<b>Description</b>	LOT 3 LAUREL LAKE S/D PHASE 2.		

### GIS Aerial



### Property & Assessment Values

<b>Mkt Land Value</b>	cnt: (1)	\$40,000.00
<b>Ag Land Value</b>	cnt: (0)	\$0.00
<b>Building Value</b>	cnt: (0)	\$0.00
<b>XFOB Value</b>	cnt: (0)	\$0.00
<b>Total Appraised Value</b>		\$40,000.00

<b>Just Value</b>	\$40,000.00
<b>Class Value</b>	\$0.00
<b>Assessed Value</b>	\$40,000.00
<b>Exempt Value</b>	\$0.00
<b>Total Taxable Value</b>	\$40,000.00

### Sales History

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

### Building Characteristics

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

### Extra Features & Out Buildings

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

### Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1.000 LT - (.500AC)	1.00/1.00/1.00/1.00	\$40,000.00	\$40,000.00

Columbia County Property Appraiser

DB Last Updated: 2/5/2007

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

<b>Project Name:</b> Laruel Lake Lot 3 Phase 2 <b>Address:</b> Lot: 3, Sub: Laurel Lake, Plat: <b>City, State:</b> Lake City, FL <b>Owner:</b> Dupree Construction <b>Climate Zone:</b> North	<b>Builder:</b> Dupree Construction <b>Permitting Office:</b> Columbia <b>Permit Number:</b> 25591 <b>Jurisdiction Number:</b> 221 000
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<p>1. New construction or existing <span style="float: right;">New <input type="checkbox"/></span></p> <p>2. Single family or multi-family <span style="float: right;">Single family <input type="checkbox"/></span></p> <p>3. Number of units, if multi-family <span style="float: right;">1 <input type="checkbox"/></span></p> <p>4. Number of Bedrooms <span style="float: right;">3 <input type="checkbox"/></span></p> <p>5. Is this a worst case? <span style="float: right;">Yes <input type="checkbox"/></span></p> <p>6. Conditioned floor area (ft<sup>2</sup>) <span style="float: right;">1959 ft<sup>2</sup> <input type="checkbox"/></span></p> <p>7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)</p> <p style="margin-left: 20px;">a. U-factor: <span style="margin-left: 100px;">Description</span> <span style="margin-left: 100px;">Area</span></p> <p style="margin-left: 20px;">(or Single or Double DEFAULT) 7a(Sngle Default) 210.8 ft<sup>2</sup> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. SHGC:</p> <p style="margin-left: 20px;">(or Clear or Tint DEFAULT) 7b. (Clear) 210.8 ft<sup>2</sup> <input type="checkbox"/></p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Slab-On-Grade Edge Insulation <span style="margin-left: 100px;">R=0.0, 226.4(p) ft <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior <span style="margin-left: 100px;">R=13.0, 1811.2 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">d. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Under Attic <span style="margin-left: 100px;">R=30.0, 2154.9 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Interior <span style="margin-left: 100px;">Sup. R=6.0, 57.4 ft <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit/Split <span style="float: right;">Cap: 42.0 kBtu/hr <input type="checkbox"/></span></p> <p style="margin-left: 20px;">SEER: 13.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump <span style="float: right;">Cap: 42.0 kBtu/hr <input type="checkbox"/></span></p> <p style="margin-left: 20px;">HSPF: 8.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance <span style="float: right;">Cap: 50.0 gallons <input type="checkbox"/></span></p> <p style="margin-left: 20px;">EF: 0.90 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. Conservation credits <input type="checkbox"/></p> <p style="margin-left: 40px;">(HR-Heat recovery, Solar DHP-Dedicated heat pump)</p> <p>15. HVAC credits <span style="float: right;">PT, CF, <input type="checkbox"/></span></p> <p style="margin-left: 20px;">(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>
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Glass/Floor Area: 0.11	Total as-built points: 24330	PASS
	Total base points: 26747	

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

**PREPARED BY:** W. J. [Signature]


**DATE:** 2/14/07

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

**OWNER/AGENT:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

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



**BUILDING OFFICIAL:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCPB v4.5)

**SUMMER CALCULATIONS****Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	1959.0	18.59	6555.0	1.Single, Clear	SE	1.5	6.0	15.0	48.65	0.88	644.0
				2.Single, Clear	SE	1.5	6.0	25.0	48.65	0.88	1074.0
				3.Single, Clear	SE	1.5	4.0	6.0	48.65	0.76	223.0
				4.Single, Clear	SW	1.5	5.0	16.5	45.75	0.84	631.0
				5.Single, Clear	SW	1.5	6.0	16.3	45.75	0.89	657.0
				6.Single, Clear	NW	1.5	6.2	35.0	29.42	0.93	957.0
				7.Single, Clear	NW	1.5	8.0	28.0	29.42	0.96	793.0
				8.Single, Clear	NE	1.5	6.0	60.0	33.55	0.92	1853.0
				9.Single, Clear	NE	1.5	4.0	9.0	33.55	0.84	252.0
				<b>As-Built Total:</b>			<b>210.8</b>		<b>7084.0</b>		
<b>WALL TYPES</b> Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	13.0		1811.2	1.50		2716.8	
Exterior	1811.2	1.70	3079.0								
<b>Base Total:</b>				<b>1811.2</b>		<b>3079.0</b>		<b>As-Built Total:</b>			
						<b>1811.2</b>		<b>2716.8</b>			
<b>DOOR TYPES</b> Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	0.0	0.00	0.0	1.Exterior Wood			34.0	6.10		207.4	
Exterior	54.4	6.10	331.8	2.Exterior Wood			20.4	6.10		124.4	
<b>Base Total:</b>				<b>54.4</b>		<b>331.8</b>		<b>As-Built Total:</b>			
						<b>54.4</b>		<b>331.8</b>			
<b>CEILING TYPES</b> Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1959.0	1.73	3389.1	1. Under Attic	30.0		2154.9	1.73 X 1.00		3728.0	
<b>Base Total:</b>				<b>1959.0</b>		<b>3389.1</b>		<b>As-Built Total:</b>			
						<b>2154.9</b>		<b>3728.0</b>			
<b>FLOOR TYPES</b> Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	226.4(p)	-37.0	-8376.8	1. Slab-On-Grade Edge Insulation	0.0		226.4(p)	-41.20		-9327.7	
Raised	0.0	0.00	0.0								
<b>Base Total:</b>				<b>-8376.8</b>		<b>As-Built Total:</b>		<b>226.4</b>		<b>-9327.7</b>	
						<b>226.4</b>		<b>-9327.7</b>			
<b>INFILTRATION</b> Area X BSPM = Points				Area X SPM = Points							
1959.0 10.21 20001.4				1959.0 10.21 20001.4							

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT						
<b>Summer Base Points: 24979.5</b>				<b>Summer As-Built Points: 24534.3</b>						
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
24979.5	0.3250	8118.4		24534	1.00	(1.09 x 1.147 x 0.91)	0.260	0.902	6549.8	
				<b>24534.3</b>	<b>1.00</b>	<b>1.138</b>	<b>0.260</b>	<b>0.902</b>	<b>6549.8</b>	

(sys 1: Central Unit 42000btuh , SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	1959.0	20.17	7112.0	1.Single, Clear	SE	1.5	6.0	15.0	21.82	1.10	358.0
				2.Single, Clear	SE	1.5	6.0	25.0	21.82	1.10	598.0
				3.Single, Clear	SE	1.5	4.0	6.0	21.82	1.22	159.0
				4.Single, Clear	SW	1.5	5.0	16.5	24.09	1.09	433.0
				5.Single, Clear	SW	1.5	6.0	16.3	24.09	1.06	415.0
				6.Single, Clear	NW	1.5	6.2	35.0	32.93	1.00	1155.0
				7.Single, Clear	NW	1.5	8.0	28.0	32.93	1.00	922.0
				8.Single, Clear	NE	1.5	6.0	60.0	32.04	1.01	1934.0
				9.Single, Clear	NE	1.5	4.0	9.0	32.04	1.02	292.0
				<b>As-Built Total:</b>				<b>210.8</b>	<b>6266.0</b>		
<b>WALL TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	13.0		1811.2	3.40		6158.1	
Exterior	1811.2	3.70	6701.4								
<b>Base Total:</b>	<b>1811.2</b>		<b>6701.4</b>	<b>As-Built Total:</b>			<b>1811.2</b>	<b>6158.1</b>			
<b>DOOR TYPES</b> Area X BWPM = Points				Type	Area X WPM = Points						
Adjacent	0.0	0.00	0.0	1.Exterior Wood			34.0	12.30		418.2	
Exterior	54.4	12.30	669.1	2.Exterior Wood			20.4	12.30		250.9	
<b>Base Total:</b>	<b>54.4</b>		<b>669.1</b>	<b>As-Built Total:</b>			<b>54.4</b>	<b>669.1</b>			
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1959.0	2.05	4015.9	1. Under Attic	30.0		2154.9	2.05 X 1.00		4417.5	
<b>Base Total:</b>	<b>1959.0</b>		<b>4015.9</b>	<b>As-Built Total:</b>			<b>2154.9</b>	<b>4417.5</b>			
<b>FLOOR TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	226.4(p)	8.9	2015.0	1. Slab-On-Grade Edge Insulation	0.0		226.4(p)	18.80		4256.3	
Raised	0.0	0.00	0.0								
<b>Base Total:</b>			<b>2015.0</b>	<b>As-Built Total:</b>			<b>226.4</b>	<b>4256.3</b>			
<b>INFILTRATION</b> Area X BWPM = Points				Area X WPM = Points							
	1959.0	-0.59	-1155.8	1959.0 -0.59 -1155.8							

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL,

PERMIT #:

BASE			AS-BUILT					
<b>Winter Base Points:</b>		<b>19357.7</b>	<b>Winter As-Built Points:</b>			<b>20611.3</b>		
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
<b>19357.7</b>	<b>0.5540</b>	<b>10724.1</b>	(sys 1: Electric Heat Pump 42000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			20611.3	1.000	(1.069 x 1.169 x 0.93)	0.426	0.950	9699.9
			<b>20611.3</b>	<b>1.00</b>	<b>1.162</b>	<b>0.426</b>	<b>0.950</b>	<b>9699.9</b>

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT										
<b>WATER HEATING</b>				Tank	EF	Number of	X	Tank	X	Multiplier	X	Credit	=	Total
Number of	X	Multiplier	=	Total	Volume		Bedrooms	Ratio				Multiplier		
3		2635.00		7905.0	50.0	0.90	3	1.00		2693.56		1.00		8080.7
													As-Built Total:	8080.7

CODE COMPLIANCE STATUS													
BASE					AS-BUILT								
Cooling	+	Heating	+	Hot Water	=	Total	Cooling	+	Heating	+	Hot Water	=	Total
Points		Points		Points		Points	Points		Points		Points		Points
8118		10724		7905		26747	6550		9700		8081		24330

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL,	PERMIT #:
---	-----------

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

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

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

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

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 86.4**

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

Dupree Construction, Lot: 3, Sub: Laurel Lake, Plat: , Lake City, FL

<p>1. New construction or existing <span style="float: right;">New <input type="checkbox"/></span></p> <p>2. Single family or multi-family <span style="float: right;">Single family <input type="checkbox"/></span></p> <p>3. Number of units, if multi-family <span style="float: right;">1 <input type="checkbox"/></span></p> <p>4. Number of Bedrooms <span style="float: right;">3 <input type="checkbox"/></span></p> <p>5. Is this a worst case? <span style="float: right;">Yes <input type="checkbox"/></span></p> <p>6. Conditioned floor area (ft<sup>2</sup>) <span style="float: right;">1959 ft<sup>2</sup> <input type="checkbox"/></span></p> <p>7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)</p> <p style="margin-left: 20px;">a. U-factor: <span style="float: right;">Description Area</span></p> <p style="margin-left: 40px;">(or Single or Double DEFAULT) 7a(Sngle Default) 210.8 ft<sup>2</sup> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. SHGC:</p> <p style="margin-left: 40px;">(or Clear or Tint DEFAULT) 7b. (Clear) 210.8 ft<sup>2</sup> <input type="checkbox"/></p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Slab-On-Grade Edge Insulation <span style="float: right;">R=0.0, 226.4(p) ft <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior <span style="float: right;">R=13.0, 1811.2 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">d. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Under Attic <span style="float: right;">R=30.0, 2154.9 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Interior <span style="float: right;">Sup. R=6.0, 57.4 ft <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit/Split <span style="float: right;">Cap: 42.0 kBtu/hr <input type="checkbox"/></span></p> <p style="margin-left: 40px;">SEER: 13.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump <span style="float: right;">Cap: 42.0 kBtu/hr <input type="checkbox"/></span></p> <p style="margin-left: 40px;">HSPF: 8.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance <span style="float: right;">Cap: 50.0 gallons <input type="checkbox"/></span></p> <p style="margin-left: 40px;">EF: 0.90 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. Conservation credits <input type="checkbox"/></p> <p style="margin-left: 40px;">(HR-Heat recovery, Solar DHP-Dedicated heat pump)</p> <p>15. HVAC credits <span style="float: right;">PT, CF, <input type="checkbox"/></span></p> <p style="margin-left: 20px;">(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>
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I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



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

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCPB v4.5)

# BUILDING INPUT SUMMARY REPORT

PROJECT	<b>Title:</b> Laruel Lake Lot 3 Phase 2		<b>Family Type:</b> Single		<b>Address Type:</b> Lot Information				
	<b>Owner:</b> Dupree Construction		<b>New/Existing:</b> New		<b>Lot #:</b> 3				
	<b># of Units:</b> 1		<b>Bedrooms:</b> 3		<b>Subdivision:</b> Laurel Lake				
	<b>Builder Name:</b> Dupree Construction		<b>Conditioned Area:</b> 1959		<b>Platbook:</b> (blank)				
	<b>Climate:</b> North		<b>Total Stories:</b> 1		<b>Street:</b> N/A				
	<b>Permit Office:</b> Columbia		<b>Worst Case:</b> Yes		<b>County:</b> Columbia				
	<b>Jurisdiction #:</b> (blank)		<b>Rotate Angle:</b> 135		<b>City, St, Zip:</b> Lake City, Fl,				
	FLOORS	<b>#</b>	<b>Floor Type</b>	<b>R-Val</b>	<b>Area/Perimeter</b>	<b>Units</b>			
		1	Slab-On-Grade Edge Insulation	0.0	226.4(p) ft	1			
	DOORS	<b>#</b>	<b>Door Type</b>	<b>Orientation</b>	<b>Area</b>	<b>Units</b>			
1		Wood	Exterior	34.0 ft <sup>2</sup>	1				
	2	Wood	Exterior	20.4 ft <sup>2</sup>	1				
CEILINGS	<b>#</b>	<b>Ceiling Type</b>	<b>R-Val</b>	<b>Area</b>	<b>Base Area</b>	<b>Units</b>			
	1	Under Attic	30.0	2154.9 ft <sup>2</sup>	1959.0 ft <sup>2</sup>	1			
<b>Credit Multipliers:</b> None									
COOLING	<b>#</b>	<b>System Type</b>	<b>Efficiency</b>	<b>Capacity</b>					
	1	Central Unit/Split	SEER: 13.00	42.0 kBtu/hr					
<b>Credit Multipliers:</b> Ceil Fn, CrossVent, WholeHF, PT									
WALLS	<b>#</b>	<b>Wall Type</b>	<b>Location</b>	<b>R-Val</b>	<b>Area</b>	<b>Units</b>			
	1	Frame - Wood	Exterior	13.0	1811.2 ft <sup>2</sup>	1			
HEATING	<b>#</b>	<b>System Type</b>	<b>Efficiency</b>	<b>Capacity</b>					
	1	Electric Heat Pump	HSPF: 8.00	42.0 kBtu/hr					
<b>Credit Multipliers:</b> PT									
WINDOWS	<b>#</b>	<b>Panels</b>	<b>Tint</b>	<b>Ornt</b>	<b>Area</b>	<b>OH Length</b>	<b>OH Hght</b>	<b>Units</b>	
	1	Single	Clear	N	15.0 ft <sup>2</sup>	1.5 ft	6.0 ft	1	
	2	Single	Clear	N	25.0 ft <sup>2</sup>	1.5 ft	6.0 ft	1	
	3	Single	Clear	N	6.0 ft <sup>2</sup>	1.5 ft	4.0 ft	1	
	4	Single	Clear	E	16.5 ft <sup>2</sup>	1.5 ft	5.0 ft	1	
	5	Single	Clear	E	16.3 ft <sup>2</sup>	1.5 ft	6.0 ft	1	
	6	Single	Clear	S	35.0 ft <sup>2</sup>	1.5 ft	6.2 ft	1	
	7	Single	Clear	S	28.0 ft <sup>2</sup>	1.5 ft	8.0 ft	1	
	8	Single	Clear	W	30.0 ft <sup>2</sup>	1.5 ft	6.0 ft	2	
	9	Single	Clear	W	9.0 ft <sup>2</sup>	1.5 ft	4.0 ft	1	
DUCTS	<b>#</b>	<b>Supply Location</b>	<b>Return Location</b>	<b>Air Handler Location</b>	<b>Supply R-Val</b>	<b>Supply Length</b>			
	1	Uncond.	Uncond.	Interior	6.0	57.4 ft			
<b>Credit Multipliers:</b> None									
WATER	<b>#</b>	<b>System Type</b>	<b>EF</b>	<b>Cap.</b>	<b>Conservation Type</b>	<b>Con. EF</b>			
	1	Electric Resistance	0.90	50.0	None	0.00			
REFR.	<b>#</b>	<b>Use Default?</b>	<b>Annual Operating Cost</b>	<b>Electric Rate</b>					
	1	Yes	N/A	N/A					
MISC	<b>Rater Name:</b>	CodeOnlyPro	<b>Class #:</b>	3	<b>Pool Size:</b>	0			
	<b>Rater Certification #:</b>	CodeOnlyPro	<b>Duct Leakage Type:</b>	N/A	<b>Pump Size:</b>	0.00 hp			
	<b>Area Under Fluorescent:</b>	0.0	<b>Visible Duct Disconnects:</b>	N/A	<b>Dryer Type:</b>	Electric			
	<b>Area Under Incandescent:</b>	1959.0	<b>Leak Free Duct System Proposed:</b>	No	<b>Stove Type:</b>	Electric			
	<b>NOTE: Not all Rating Info shown</b>			<b>HRV/ERV System Present?:</b>	No	<b>Avg Ceil Hgt:</b>	10		

# Residential System Sizing Calculation

## Summary

Dupree Construction

Project Title:  
Laruel Lake Lot 3 Phase 2

Code Only  
Professional Version  
Climate: North

Lake City, FL

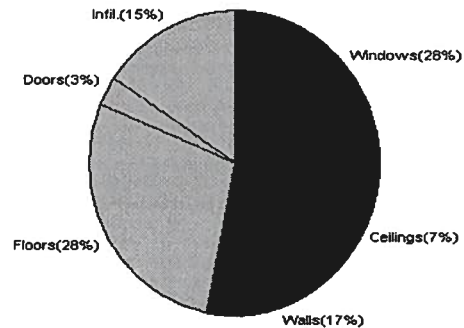
2/14/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
<b>Total heating load calculation</b>	<b>34773</b>	<b>Btuh</b>	<b>Total cooling load calculation</b>	<b>29854</b>	<b>Btuh</b>
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	120.8	42000	Sensible (SHR = 0.75)	127.1	31500
Heat Pump + Auxiliary(0.0kW)	120.8	42000	Latent	207.2	10500
			Total (Electric Heat Pump)	140.7	42000

## WINTER CALCULATIONS

Winter Heating Load (for 1959 sqft)

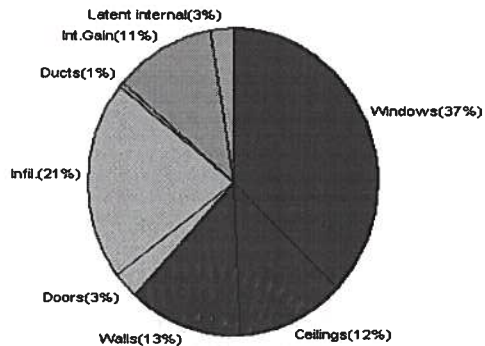
Load component	Load	
Window total	211 sqft	9903 Btuh
Wall total	1811 sqft	5948 Btuh
Door total	54 sqft	1087 Btuh
Ceiling total	2155 sqft	2539 Btuh
Floor total	226 sqft	9885 Btuh
Infiltration	131 cfm	5290 Btuh
Duct loss		121 Btuh
<b>Subtotal</b>		<b>34773 Btuh</b>
Ventilation	0 cfm	0 Btuh
<b>TOTAL HEAT LOSS</b>		<b>34773 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 1959 sqft)

Load component	Load	
Window total	211 sqft	11100 Btuh
Wall total	1811 sqft	3778 Btuh
Door total	54 sqft	823 Btuh
Ceiling total	2155 sqft	3569 Btuh
Floor total		0 Btuh
Infiltration	114 cfm	2127 Btuh
Internal gain		3320 Btuh
Duct gain		71 Btuh
Sens. Ventilation	0 cfm	0 Btuh
<b>Total sensible gain</b>		<b>24787 Btuh</b>
Latent gain(ducts)		91 Btuh
Latent gain(infiltration)		4176 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		800 Btuh
<b>Total latent gain</b>		<b>5067 Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>29854 Btuh</b>



Version 8  
For Florida residences-only

EnergyGauge® System Sizing

PREPARED BY: W. J. Free

DATE: 2/14/07

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Dupree Construction

Project Title:

Code Only

Laruel Lake Lot 3 Phase 2

Professional Version

Lake City, FL

Climate: North

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

2/14/2007

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

### Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	NW	15.0	47.0	705 Btuh
2	1, Clear, Metal, 1.27	NW	25.0	47.0	1175 Btuh
3	1, Clear, Metal, 1.27	NW	6.0	47.0	282 Btuh
4	1, Clear, Metal, 1.27	NE	16.5	47.0	775 Btuh
5	1, Clear, Metal, 1.27	NE	16.3	47.0	764 Btuh
6	1, Clear, Metal, 1.27	SE	35.0	47.0	1645 Btuh
7	1, Clear, Metal, 1.27	SE	28.0	47.0	1316 Btuh
8	1, Clear, Metal, 1.27	SW	60.0	47.0	2819 Btuh
9	1, Clear, Metal, 1.27	SW	9.0	47.0	423 Btuh
Window Total			211(sqft)		9903 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1811	3.3	5948 Btuh
Wall Total			1811		5948 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		20	20.0	408 Btuh
2	Wood - Exterior		34	20.0	679 Btuh
Door Total			54		1087Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2155	1.2	2539 Btuh
Ceiling Total			2155		2539Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	226.4 ft(p)	43.7	9885 Btuh
Floor Total			226		9885 Btuh
Envelope Subtotal:					29362 Btuh
Infiltration	Type	ACH X	Volume(cuft) walls(sqft)	CFM=	Load
	Natural	0.40	19590 1811	130.6	5290 Btuh
Ductload	(DLM of 0.004)				121 Btuh
All Zones	Sensible Subtotal All Zones				34773 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Dupree Construction

Project Title:

Code Only

Lake City, FL

Laruel Lake Lot 3 Phase 2

Professional Version

Climate: North

2/14/2007

### WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	34773 Btuh 0 Btuh 34773 Btuh
--	--	------------------------------------

### EQUIPMENT

1. Electric Heat Pump	#	42000 Btuh
-----------------------	---	------------

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

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



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# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Dupree Construction

Project Title:

Code Only

Laruel Lake Lot 3 Phase 2

Professional Version

Lake City, FL

Climate: North

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

2/14/2007

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

### Component Loads for Zone #1: 1st Floor

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	NW	15.0	47.0	705 Btuh
2	1, Clear, Metal, 1.27	NW	25.0	47.0	1175 Btuh
3	1, Clear, Metal, 1.27	NW	6.0	47.0	282 Btuh
4	1, Clear, Metal, 1.27	NE	16.5	47.0	775 Btuh
5	1, Clear, Metal, 1.27	NE	16.3	47.0	764 Btuh
6	1, Clear, Metal, 1.27	SE	35.0	47.0	1645 Btuh
7	1, Clear, Metal, 1.27	SE	28.0	47.0	1316 Btuh
8	1, Clear, Metal, 1.27	SW	60.0	47.0	2819 Btuh
9	1, Clear, Metal, 1.27	SW	9.0	47.0	423 Btuh
Window Total			211(sqft)		9903 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1811	3.3	5948 Btuh
Wall Total			1811		5948 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		20	20.0	408 Btuh
2	Wood - Exterior		34	20.0	679 Btuh
Door Total			54		1087Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2155	1.2	2539 Btuh
Ceiling Total			2155		2539Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	226.4 ft(p)	43.7	9885 Btuh
Floor Total			226		9885 Btuh
Zone Envelope Subtotal:					29362 Btuh
Infiltration	Type	ACH X Volume(cuft) walls(sqft)	CFM=		Load
	Natural	0.40 19590 1811	130.6		5290 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.004)				121 Btuh
Zone #1	Sensible Zone Subtotal				34773 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Dupree Construction

Project Title:

Code Only

Lake City, Fl

Laruel Lake Lot 3 Phase 2

Professional Version

Climate: North

2/14/2007

### WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	34773 Btuh 0 Btuh 34773 Btuh
--	--	------------------------------------

### EQUIPMENT

1. Electric Heat Pump	#	42000 Btuh
-----------------------	---	------------

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

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



Version 8  
For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Dupree Construction

Project Title:

Code Only

Lake City, FL

Laruel Lake Lot 3 Phase 2

Professional Version

Climate: North

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

2/14/2007

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

### Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	1, Clear, 1.27, None,N,F	NW	1.5ft	6ft.	15.0	0.0	15.0	30	58	867 Btuh
2	1, Clear, 1.27, None,N,F	NW	1.5ft	6ft.	25.0	0.0	25.0	30	58	1445 Btuh
3	1, Clear, 1.27, None,N,F	NW	1.5ft	4ft.	6.0	0.0	6.0	30	58	347 Btuh
4	1, Clear, 1.27, None,N,F	NE	1.5ft	5ft.	16.5	0.0	16.5	30	58	954 Btuh
5	1, Clear, 1.27, None,N,F	NE	1.5ft	6ft.	16.3	0.0	16.3	30	58	939 Btuh
6	1, Clear, 1.27, None,N,F	SE	1.5ft	6.16	35.0	16.8	18.2	30	60	1596 Btuh
7	1, Clear, 1.27, None,N,F	SE	1.5ft	8ft.	28.0	6.1	21.9	30	60	1498 Btuh
8	1, Clear, 1.27, None,N,F	SW	1.5ft	6ft.	60.0	18.3	41.7	30	60	3052 Btuh
9	1, Clear, 1.27, None,N,F	SW	1.5ft	4ft.	9.0	4.6	4.4	30	60	403 Btuh
Window Total					211 (sqft)					11100 Btuh
<b>Walls</b>	Type		R-Value/U-Value		Area(sqft)			HTM		Load
1	Frame - Wood - Ext		13.0/0.09		1811.2			2.1		3778 Btuh
Wall Total					1811 (sqft)					3778 Btuh
<b>Doors</b>	Type				Area (sqft)			HTM		Load
1	Wood - Exterior				20.4			15.1		308 Btuh
2	Wood - Exterior				34.0			15.1		514 Btuh
Door Total					54 (sqft)					823 Btuh
<b>Ceilings</b>	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Vented Attic/DarkShingle		30.0		2154.9			1.7		3569 Btuh
Ceiling Total					2155 (sqft)					3569 Btuh
<b>Floors</b>	Type		R-Value		Size			HTM		Load
1	Slab On Grade		0.0		226 (ft(p))			0.0		0 Btuh
Floor Total					226.4 (sqft)					0 Btuh
Envelope Subtotal:									19269 Btuh	
<b>Infiltration</b>	Type		ACH		Volume(cuft) wall area(sqft)		CFM=		Load	
	SensibleNatural		0.35		19590 1811		130.6		2127 Btuh	
<b>Internal gain</b>			Occupants		Btuh/occupant		Appliance		Load	
			4		X 230 +		2400		3320 Btuh	
Sensible Envelope Load:									24716 Btuh	
<b>Duct load</b>	(DGM of 0.003)								71 Btuh	
<b>Sensible Load All Zones</b>									<b>24787 Btuh</b>	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Dupree Construction

Project Title:

Code Only

Lake City, Fl

Laruel Lake Lot 3 Phase 2

Professional Version

Climate: North

2/14/2007

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>24716 Btuh</b>
	Sensible Duct Load	71 Btuh
	<b>Total Sensible Zone Loads</b>	<b>24787 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>24787 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	4176 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	91 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>5067 Btuh</b>
	<b>TOTAL GAIN</b>	<b>29854 Btuh</b>

### EQUIPMENT

1. Central Unit/Split	#(Outside) #(Inside)	42000 Btuh
-----------------------	----------------------	------------

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



Version 8  
For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Dupree Construction

Project Title:

Code Only

Lake City, FL

Laruel Lake Lot 3 Phase 2

Professional Version

Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
 This calculation is for Worst Case. The house has been rotated 315 degrees.

2/14/2007

### Component Loads for Zone #1: 1st Floor

Window	Type*			Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,F	NW		1.5ft	6ft.	15.0	0.0	15.0	30	58	867	Btuh
2	1, Clear, 1.27, None,N,F	NW		1.5ft	6ft.	25.0	0.0	25.0	30	58	1445	Btuh
3	1, Clear, 1.27, None,N,F	NW		1.5ft	4ft.	6.0	0.0	6.0	30	58	347	Btuh
4	1, Clear, 1.27, None,N,F	NE		1.5ft	5ft.	16.5	0.0	16.5	30	58	954	Btuh
5	1, Clear, 1.27, None,N,F	NE		1.5ft	6ft.	16.3	0.0	16.3	30	58	939	Btuh
6	1, Clear, 1.27, None,N,F	SE		1.5ft	6.16	35.0	16.8	18.2	30	60	1596	Btuh
7	1, Clear, 1.27, None,N,F	SE		1.5ft	8ft.	28.0	6.1	21.9	30	60	1498	Btuh
8	1, Clear, 1.27, None,N,F	SW		1.5ft	6ft.	60.0	18.3	41.7	30	60	3052	Btuh
9	1, Clear, 1.27, None,N,F	SW		1.5ft	4ft.	9.0	4.6	4.4	30	60	403	Btuh
Window Total						211 (sqft)					11100 Btuh	
<b>Walls</b>	Type	R-Value/U-Value		Area(sqft)		HTM		Load				
1	Frame - Wood - Ext	13.0/0.09		1811.2		2.1		3778 Btuh				
Wall Total						1811 (sqft)			3778 Btuh			
<b>Doors</b>	Type	Area (sqft)		HTM		Load						
1	Wood - Exterior	20.4		15.1		308 Btuh						
2	Wood - Exterior	34.0		15.1		514 Btuh						
Door Total						54 (sqft)			823 Btuh			
<b>Ceilings</b>	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load				
1	Vented Attic/DarkShingle	30.0		2154.9		1.7		3569 Btuh				
Ceiling Total						2155 (sqft)			3569 Btuh			
<b>Floors</b>	Type	R-Value		Size		HTM		Load				
1	Slab On Grade	0.0		226 (ft(p))		0.0		0 Btuh				
Floor Total						226.4 (sqft)			0 Btuh			
Zone Envelope Subtotal:										19269 Btuh		
<b>Infiltration</b>	Type	ACH		Volume(cuft) wall area(sqft)		CFM=		Load				
	SensibleNatural	0.35		19590 1811		114.3		2127 Btuh				
<b>Internal gain</b>	Occupants	Btuh/occupant		Appliance		Load						
	4	X 230 +		2400		3320 Btuh						
Sensible Envelope Load:										24716 Btuh		
<b>Duct load</b>	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.003)								71 Btuh			
Sensible Zone Load										24787 Btuh		

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Dupree Construction

Project Title:

Code Only

Lake City, Fl

Laruel Lake Lot 3 Phase 2

Professional Version

Climate: North

2/14/2007

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>24716 Btuh</b>
	Sensible Duct Load	71 Btuh
	<b>Total Sensible Zone Loads</b>	<b>24787 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>24787 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	4176 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	91 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>5067 Btuh</b>
	<b>TOTAL GAIN</b>	<b>29854 Btuh</b>

### EQUIPMENT

1. Central Unit/Split	#(Outside) #(Inside)	42000 Btuh
-----------------------	----------------------	------------

\*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



Version 8  
For Florida residences only

# Residential Window Diversity

## MidSummer

Dupree Construction  
Lake City, FI

Project Title:  
Laruel Lake Lot 3 Phase 2

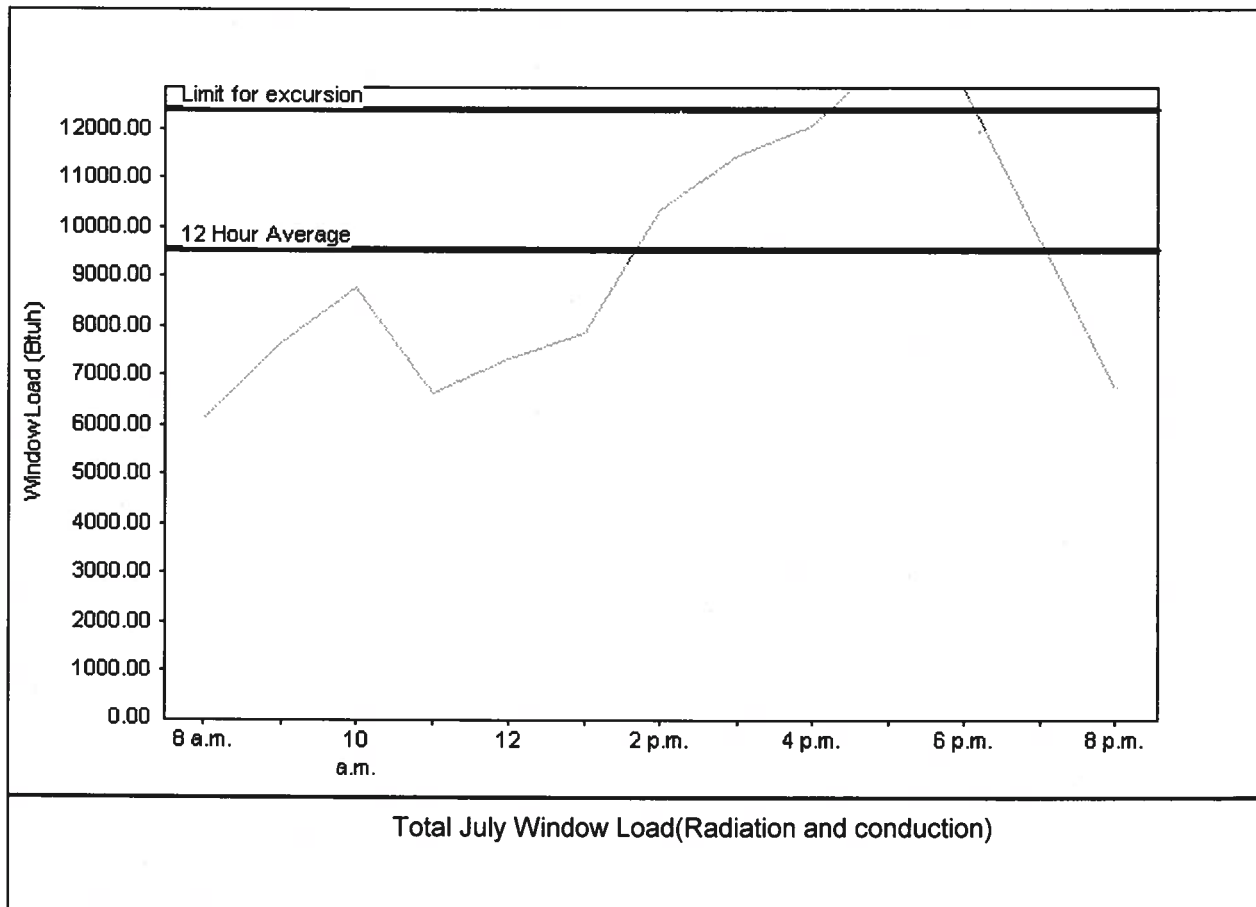
Code Only  
Professional Version  
Climate: North

2/14/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	9532 Btuh
Summer setpoint	75 F	Peak window load for July	13551 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	12392 Btu
Latitude	29 North	Window excursion (July)	1159 Btuh

### WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *Will Stue*

DATE: *2/14/07*



**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000001347**

DATE 03/07/2007 PARCEL ID # 03-4S-16-02732-203

APPLICANT LAMAR DUPREE PHONE 754-5678

ADDRESS 2902 W US HIGHWAY 90 LAKE CITY FL 32055

OWNER PHOENIX LAND DEVELOPMENT PHONE 754-5678

ADDRESS 188 SW BIRCH GLENN LAKE CITY FL 32055

CONTRACTOR JL DUPREE PHONE 754-5678

LOCATION OF PROPERTY 90W, TL ON 252-B, TR ON DEPUTY J. DAVIS LANE, TL ON RED MAPLE WAY,  
TL ON BIRCH GLENN, 4TH ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT LAUREL LAKES 3

SIGNATURE *Joseph L. Dupree SK*

**INSTALLATION REQUIREMENTS**

Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

Culvert installation shall conform to the approved site plan standards.

Department of Transportation Permit installation approved standards.

Other \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED  
DURING THE INSTALATION OF THE CULVERT.**

135 NE Hernando Ave., Suite B-21  
Lake City, FL 32055

**Amount Paid 25.00**

Phone: 386-758-1008 Fax: 386-758-2160



**Project Summary**  
**Entire House**  
 Glenn I. Jones, Inc.

Job: LL ph2 Lot 3  
 Date:  
 By: Louis Weeks

**Project Information**

For: Laural Lakes Ph 2 Lot 3

Notes:

**Design Information**

Weather: Gainesville, FL, US

**Winter Design Conditions**

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

**Summer Design Conditions**

Outside db 92 °F  
 Inside db 75 °F  
 Design TD 17 °F  
 Daily range M  
 Relative humidity 50 %  
 Moisture difference 52 gr/lb

**Heating Summary**

Structure 29476 Btuh  
 Ducts 1474 Btuh  
 Central vent (0 cfm) 0 Btuh  
 Humidification 0 Btuh  
 Piping 0 Btuh  
 Equipment load 30950 Btuh

**Sensible Cooling Equipment Load Sizing**

Structure 21664 Btuh  
 Ducts 2166 Btuh  
 Central vent (0 cfm) 0 Btuh  
 Blower 0 Btuh  
 Use manufacturer's data n  
 Rate/swing multiplier 0.97  
 Equipment sensible load 23115 Btuh

**Infiltration**

Method Simplified  
 Construction quality Average  
 Fireplaces 0

	Heating	Cooling
Area (ft <sup>2</sup> )	1959	1959
Volume (ft <sup>3</sup> )	19592	19592
Air changes/hour	0.80	0.40
Equiv. AVF (cfm)	261	131

**Latent Cooling Equipment Load Sizing**

Structure 5959 Btuh  
 Ducts 0 Btuh  
 Central vent (0 cfm) 0 Btuh  
 Equipment latent load 5959 Btuh  
 Equipment total load 29074 Btuh  
 Req. total capacity at 0.70 SHR 2.8 ton

**Heating Equipment Summary**

Make Carrier  
 Trade Base 13 Puron HP  
 Model 25HBA336A30  
 Efficiency 8.1 HSPF  
 Heating input  
 Heating output 35800 Btuh @ 47°F  
 Temperature rise 29 °F  
 Actual air flow 1133 cfm  
 Air flow factor 0.037 cfm/Btuh  
 Static pressure 0.50 in H2O  
 Space thermostat

**Cooling Equipment Summary**

Make Carrier  
 Trade Base 13 Puron HP  
 Cond 25HBA336A30  
 Coil FY4ANF042  
 Efficiency 13 SEER  
 Sensible cooling 23800 Btuh  
 Latent cooling 10200 Btuh  
 Total cooling 34000 Btuh  
 Actual air flow 1133 cfm  
 Air flow factor 0.048 cfm/Btuh  
 Static pressure 0.50 in H2O  
 Load sensible heat ratio 0.80

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name: <b>LL ph2 lot 3</b> Address: City, State: , Owner: <b>Laural Lakes Ph2 Lot 3</b> Climate Zone: <b>North</b>	Builder: <b>Glenn I. Jones, Inc.</b> Permitting Office: Permit Number: Jurisdiction Number:
---	--

1. New construction or existing <span style="float: right;">New</span> <input type="checkbox"/> 2. Single family or multi-family <span style="float: right;">Single family</span> <input type="checkbox"/> 3. Number of units, if multi-family <span style="float: right;">1</span> <input type="checkbox"/> 4. Number of Bedrooms <span style="float: right;">3</span> <input type="checkbox"/> 5. Is this a worst case? <span style="float: right;">Yes</span> <input type="checkbox"/> 6. Conditioned floor area (ft <sup>2</sup> ) <span style="float: right;">1959 ft<sup>2</sup></span> <input type="checkbox"/> 7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default) a. U-factor: <span style="float: right;">Description Area</span> (or Single or Double DEFAULT) 7a. (Dble. U=0.6) 55.0 ft <sup>2</sup> <input type="checkbox"/> b. SHGC: (or Clear or Tint DEFAULT) 7b. (Clear) 212.0 ft <sup>2</sup> <input type="checkbox"/> 8. Floor types a. Slab-On-Grade Edge Insulation <span style="float: right;">R=0.0, 0.0(p) ft</span> <input type="checkbox"/> b. N/A <input type="checkbox"/> c. N/A <input type="checkbox"/> 9. Wall types a. Frame, Wood, Exterior <span style="float: right;">R=11.0, 1600.3 ft<sup>2</sup></span> <input type="checkbox"/> b. Frame, Wood, Adjacent <span style="float: right;">R=11.0, 320.0 ft<sup>2</sup></span> <input type="checkbox"/> c. N/A <input type="checkbox"/> d. N/A <input type="checkbox"/> e. N/A <input type="checkbox"/> 10. Ceiling types a. Under Attic <span style="float: right;">R=30.0, 1959.0 ft<sup>2</sup></span> <input type="checkbox"/> b. N/A <input type="checkbox"/> c. N/A <input type="checkbox"/> 11. Ducts a. Sup: Unc. Ret: Unc. AH(Sealed):Garage Sup. R=6.0, 162.0 ft <input type="checkbox"/> b. N/A <input type="checkbox"/>	12. Cooling systems a. Central Unit <span style="float: right;">Cap: 34.0 kBtu/hr</span> <input type="checkbox"/> <span style="float: right;">SEER: 13.00</span> <input type="checkbox"/> b. N/A <input type="checkbox"/> c. N/A <input type="checkbox"/> 13. Heating systems a. Electric Heat Pump <span style="float: right;">Cap: 34.0 kBtu/hr</span> <input type="checkbox"/> <span style="float: right;">HSPF: 8.10</span> <input type="checkbox"/> b. N/A <input type="checkbox"/> c. N/A <input type="checkbox"/> 14. Hot water systems a. Electric Resistance <span style="float: right;">Cap: 40.0 gallons</span> <input type="checkbox"/> <span style="float: right;">EF: 0.92</span> <input type="checkbox"/> b. N/A <input type="checkbox"/> c. Conservation credits <input type="checkbox"/> (HR-Heat recovery, Solar DHP-Dedicated heat pump) <input type="checkbox"/> 15. HVAC credits <input type="checkbox"/> (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating) <input type="checkbox"/>
---	--

Glass/Floor Area: 0.11	Total as-built points: 24647	PASS
	Total base points: 31352	

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

**PREPARED BY:** Louis Weeks

**DATE:** 2-15-07

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

**OWNER/AGENT:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

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

**BUILDING OFFICIAL:** \_\_\_\_\_

**DATE:** \_\_\_\_\_



1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.21)



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
----------------	-----------

BASE	AS-BUILT
<b>Summer Base Points: 33487.6</b>	<b>Summer As-Built Points: 32777.9</b>
Total Summer X System = Cooling Points Multiplier Points	Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)
<b>33487.6 0.4266 14285.8</b>	(sys 1: Central Unit 34000 btuh , SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 32778 1.00 (1.09 x 1.147 x 0.95) 0.263 1.000 10220.9 <b>32777.9 1.00 1.188 0.263 1.000 10220.9</b>

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	1959.0	12.74	4492.4	Double,U=0.61,Clear	E	1.5	8.0	28.0	11.68	1.02	333.8
				Double,U=0.61,Clear	E	6.0	6.0	10.0	11.68	1.29	150.2
				Double,U=0.61,Clear	E	1.5	6.0	20.0	11.68	1.04	241.9
				Double,U=0.61,Clear	N	1.5	6.0	35.0	17.34	1.00	608.3
				Double,U=0.61,Clear	W	1.5	6.0	55.0	13.51	1.02	760.7
				Double,U=0.52,Clear	W	6.0	6.0	25.0	10.85	1.17	316.4
				Double,U=0.61,Clear	S	1.5	6.0	15.0	6.22	1.12	104.3
				Double,U=0.61,Clear	S	1.5	4.0	9.0	6.22	1.35	75.8
				Double,U=0.61,Clear	N	5.0	6.0	15.0	17.34	1.02	264.3
				<b>As-Built Total:</b>				<b>212.0</b>	<b>2855.8</b>		
<b>WALL TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Exterior	1600.3	3.70	5921.1	Frame, Wood, Exterior	11.0		1600.3	3.70		5921.1	
Adjacent	320.0	3.60	1152.0	Frame, Wood, Adjacent	11.0		320.0	3.60		1152.0	
<b>Base Total:</b>				<b>1920.3</b>		<b>7073.1</b>		<b>As-Built Total:</b>			
						<b>1920.3</b>		<b>7073.1</b>			
<b>DOOR TYPES</b> Area X BWPM = Points				Type	Area X WPM = Points						
Exterior	21.0	8.40	176.4	Exterior Wood	21.0 12.30 258.3						
Adjacent	0.0	0.00	0.0								
<b>Base Total:</b>				<b>21.0</b>		<b>176.4</b>		<b>As-Built Total:</b>			
						<b>21.0</b>		<b>258.3</b>			
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1959.0	2.05	4015.9	Under Attic	30.0		1959.0	2.05 X 1.00		4015.9	
<b>Base Total:</b>				<b>1959.0</b>		<b>4015.9</b>		<b>As-Built Total:</b>			
						<b>1959.0</b>		<b>4015.9</b>			
<b>FLOOR TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	183.3(p)	8.9	0.0	Slab-On-Grade Edge Insulation	0.0		183.3(p)	18.80		0.0	
Raised	0.0	0.00	0.0								
<b>Base Total:</b>				<b>0.0</b>		<b>0.0</b>		<b>As-Built Total:</b>			
						<b>0.0</b>		<b>0.0</b>			
<b>INFILTRATION</b> Area X BWPM = Points				Area X WPM = Points							
1959.0 -0.59 -1155.8				1959.0 -0.59 -1155.8							

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
----------------	-----------

BASE			AS-BUILT					
<b>Winter Base Points: 14602.0</b>			<b>Winter As-Built Points: 13047.4</b>					
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
14602.0	0.6274	9161.3	(sys 1: Electric Heat Pump 34000 btuh ,EFF(8.1) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 13047.4	1.000	(1.069 x 1.169 x 0.95)	0.421	1.000	6520.9
			<b>13047.4</b>	<b>1.00</b>	<b>1.187</b>	<b>0.421</b>	<b>1.000</b>	<b>6520.9</b>

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
----------------	-----------

BASE	AS-BUILT
<b>WATER HEATING</b>	
Number of Bedrooms X Multiplier = Total	Tank Volume EF Number of Bedrooms X Tank Ratio X Multiplier X Credit = Total Multiplier
3                      2635.00                      7905.0	40.0    0.92                      3                      1.00                      2635.00                      1.00                      7905.0
	<b>As-Built Total:                      7905.0</b>

CODE COMPLIANCE STATUS													
BASE					AS-BUILT								
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
<b>14286</b>		<b>9161</b>		<b>7905</b>		<b>31352</b>	<b>10221</b>		<b>6521</b>		<b>7905</b>		<b>24647</b>

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

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

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

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

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 86.5**

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

Laural Lakes Ph2 Lot 3, , , ,

<p>1. New construction or existing <span style="float: right;">New <input type="checkbox"/></span></p> <p>2. Single family or multi-family <span style="float: right;">Single family <input type="checkbox"/></span></p> <p>3. Number of units, if multi-family <span style="float: right;">1 <input type="checkbox"/></span></p> <p>4. Number of Bedrooms <span style="float: right;">3 <input type="checkbox"/></span></p> <p>5. Is this a worst case? <span style="float: right;">Yes <input type="checkbox"/></span></p> <p>6. Conditioned floor area (ft<sup>2</sup>) <span style="float: right;">1959 ft<sup>2</sup> <input type="checkbox"/></span></p> <p>7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)</p> <p style="margin-left: 20px;">a. U-factor: <span style="float: right;">Description Area</span> (or Single or Double DEFAULT) 7a. (Dble, U=0.6) 55.0 ft<sup>2</sup> <input type="checkbox"/></p> <p style="margin-left: 20px;">b. SHGC: (or Clear or Tint DEFAULT) 7b. (Clear) 212.0 ft<sup>2</sup> <input type="checkbox"/></p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Slab-On-Grade Edge Insulation <span style="float: right;">R=0.0, 0.0(p) ft <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior <span style="float: right;">R=11.0, 1600.3 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. Frame, Wood, Adjacent <span style="float: right;">R=11.0, 320.0 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">d. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Under Attic <span style="float: right;">R=30.0, 1959.0 ft<sup>2</sup> <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH(Sealed):Garage Sup. R=6.0, 162.0 ft <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit <span style="float: right;">Cap: 34.0 kBtu/hr <input type="checkbox"/></span> <span style="float: right;">SEER: 13.00 <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump <span style="float: right;">Cap: 34.0 kBtu/hr <input type="checkbox"/></span> <span style="float: right;">HSPF: 8.10 <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance <span style="float: right;">Cap: 40.0 gallons <input type="checkbox"/></span> <span style="float: right;">EF: 0.92 <input type="checkbox"/></span></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) <input type="checkbox"/></p> <p>15. HVAC credits <input type="checkbox"/> (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>
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I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



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

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.21)



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

## **NOTICE OF ACCEPTANCE (NOA)**

**Therma-Tru Corporation  
108 Mutzfeld Road  
Butler, IN 46721**

### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee (BCPRC) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The BCCO (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BCPRC reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

### **DESCRIPTION: Outswing Glazed Residential Steel Door w/Sidelites**

**APPROVAL DOCUMENT:** Drawing No. S-2003, titled "Therma-Tru Wood edge Outswing", sheets 1 through 6 to 6, prepared by RW Consulting, dated 3/9/01, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

### **MISSILE IMPACT RATING: None**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 00-0207.06 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



**NOA No 02-0418.01  
Expiration Date: April 05, 2007  
Approval Date: May 23, 2002  
Page 1**

**THERMA-TRU®**  
CONSTRUCTION AND "PREMIUM" SERIES  
INSULATED STEEL DOOR WITH WOOD FRAMES.

**GENERAL NOTES**

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1984 EDITION FOR MIAMI-DADE COUNTY. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. MIAMI-DADE APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED.
4. DESIGNED PRESSURE RATING SEE TABLE PAGE 1.
5. SIDELITES ARE AN OPTION AND CAN BE IN A SINGLE OR DOUBLE CONFIGURATION.

**RESIDENTIAL INSULATED STEEL DOOR**  
(Common to all frame conditions)

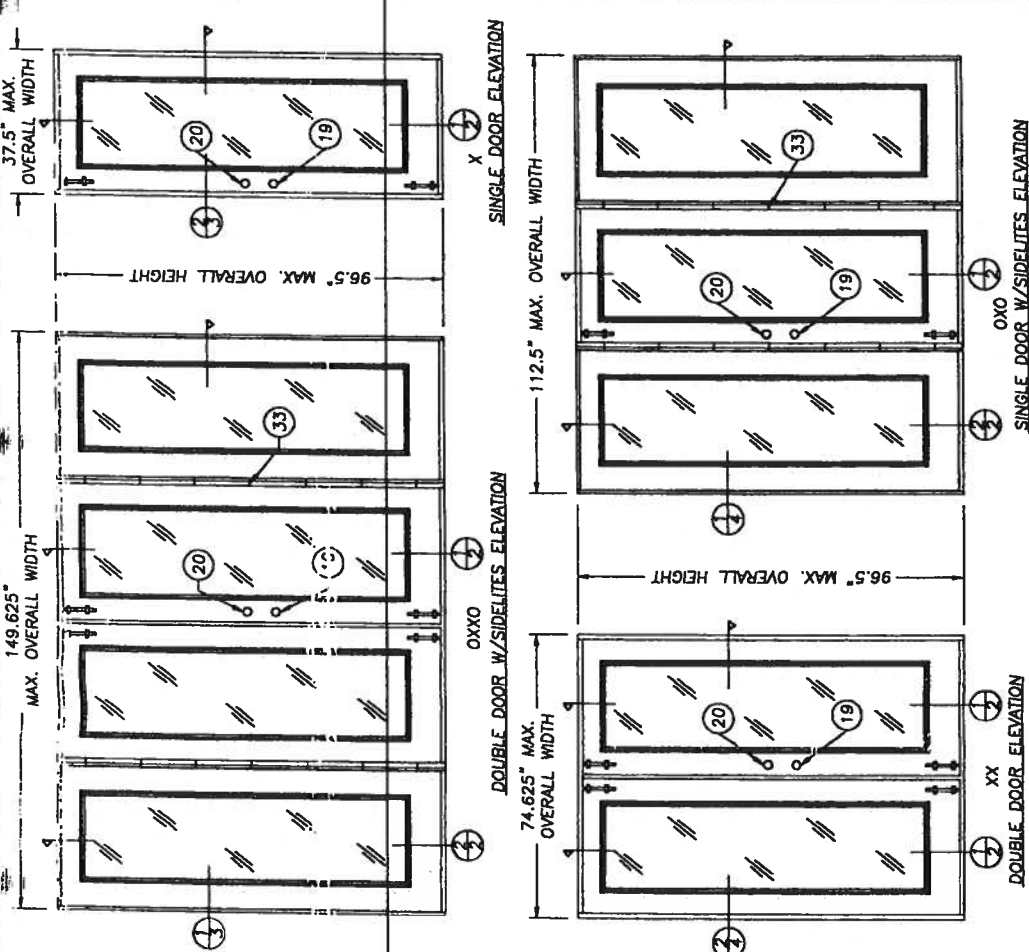
Door Leaf Construction:  
Face sheets: 25 GA (0.018") minimum thickness  
Commonly used A-575 commercial quality AKOO  
per ASTM 630 with yield strength  $F_y$ (min.)=47,000 psi  
Core design: Polyurethane foam core,  
with 1.9 lbs. density by BASF.  
Construction: Flush or embossed type. The vertical  
edges of the skin, are rolled formed to provide a  
mechanical interlock with finger, jointed pine stiles.  
Wood composite end rails are butt jointed to stiles  
at corners. Panels are sandwich glazed using a two  
piece PVC lite frame with mitered & welded corners.

**TABLE OF CONTENTS**

SHEET #	DESCRIPTION
1	COMMON (GENERAL NOTES, TYPICAL ELEVATION)
2	VERTICAL CROSS SECTIONS & BILL OF MATERIALS
3	HORIZONTAL CROSS SECTIONS & DOOR MODELS
4	HORIZONTAL CROSS SECTIONS & GLAZING DETAILS
5	ANCHORING LOCATIONS
6	ANCHORING LOCATIONS

**DESIGN PRESSURE RATING**

WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	
POSITIVE	+ 48.0 PSF
NEGATIVE	- 51.0 PSF



ALL DOOR MODELS ARE VIEWED  
FROM THE INTERIOR SIDE  
(OUTSWING DOORS)

PRODUCT REFINED  
as complying with the Florida  
Building Code  
Acceptance No. 02-0418(C)  
Expiration Date 01/01/2001  
By: [Signature]  
Miami-Dade Product Control  
Division

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE: APRIL 05, 2001  
BY: [Signature]

DATE: 3/3/00  
SCALE: N.T.S.  
DWR. BY: TJH  
CHK. BY: RW  
DRAWING NO.: S-2003  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 02-0418 & 6  
SHEET 1 of 6

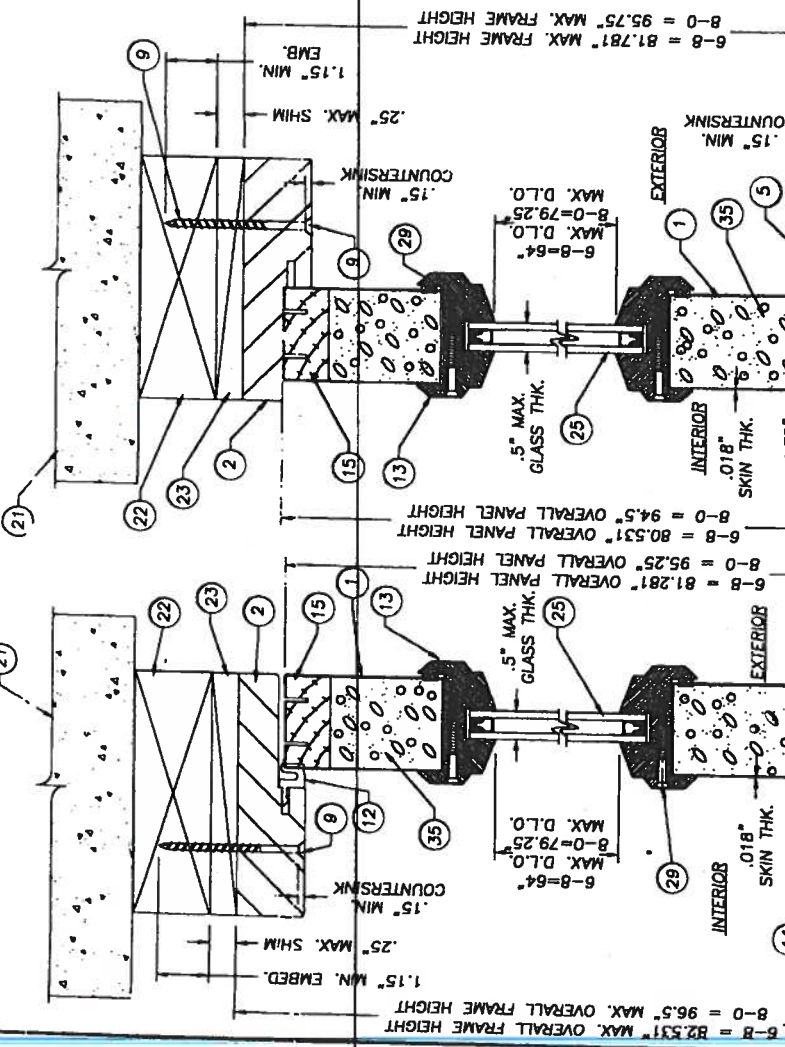
THERMA-TRU®  
108 MUTZFELD RD.  
BUTLER, IN 46721  
PH. (219) 868-5811

NO.	DATE	REVISIONS
1	4/11/00	GENERAL REVISION TJH
2	3/09/01	GENERAL REVISION RW

PRODUCT: THERMA TRU WOODEDGE  
OUTSWING UP TO 12-0  
B-0-W/3-0 SIDELITES  
PART OR ASSEMBLY:  
ELEVATIONS AND  
GENERAL NOTES

RW BUILDING  
CONSULTANTS, INC.  
813.864.3831

Item	DESCRIPTION	Material
1	CONSTRUC. SERIES DOOR (25GA. .018" MIN.)	STEEL
2	4 1/2" LATCH JAMB (THERMA-TRU)	WOOD
3	4 1/2" HINGE JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
4	4 1/2" HINGE JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
5	4 1/2" BLANK JAMB (THERMA-TRU, PONDEROSA PINE)	WOOD
6	4" x 4" HINGE .087" THK. (THERMA-TRU)	STEEL
7	4" x 4" HINGE .087" THK. (THERMA-TRU)	STEEL
8	#10 WOOD SCREW X 2 1/2" LG.	STEEL
9	#8 x 2 1/2" LG. WOOD SCREW	STEEL
10	3/16" TAPCON ANCHOR (ELCO, 1.75" MIN. LG.)	STEEL
11	ONE PIECE BUMPS FACE THRESHOLD (THERMA-TRU)	ALUM./WOOD
12	COMPRESSION WEATHERSTRIP (THERMA-TRU)	PVC
13	PLASTIC UP LITE FRAME (PVC, THERMA-TRU)	WOOD
14	#10 x 1 1/4" LG. TYPE "A" FLATHEAD	STEEL
15	TOP & BOTTOM RAIL (1.75" x 1.625") (THERMA-TRU, PONDEROSA PINE)	WOOD
16	BLANK SIDE STYLE (THERMA-TRU, PONDEROSA PINE)	WOOD
17	#8 x 1 1/2" LG. TYPE "AB" PANHEAD	STEEL
18	#10 WOOD SCREW X 2" LG.	STEEL
19	KWIKSET 200 DL PASSAGE	STEEL
20	KWIKSET 660 DEADBOLT	STEEL
21	MASONRY WALL	WOOD
22	2" x WOOD BLOCK	WOOD
23	MAX. 1/4" SHIM MATERIAL	WOOD
24	ASTRAGAL (.052" WALL THK.)	WOOD/ALUM.
25	GLAZING, 1/2" INSULATED TEMPERED GLASS	GLASS
26	3/4" THK. PRESSURE TREATED SIDELITE PAD	WOOD
27	#12 x 1 1/2" LG. PANHEAD SHEET METAL SCREW	STEEL
28	ASTRAGAL WEATHERSTRIP	VINYL
29	#8-18 x 1 3/4" PHILLIPS FLATHEAD SCREW	STEEL
30	#9 x 1" LG. PHILLIPS FLATHEAD SCREW	STEEL
31	LATCH SIDE STYLE (THERMA-TRU, PONDEROSA PINE)	WOOD
32	HINGE SIDE STYLE (THERMA-TRU, PONDEROSA PINE)	WOOD
33	CORRUGATED STAPLE FASTENER (1 1/2" x 3/4")	STEEL
34	LOCK BLOCK (4" x 1 1/2" x 1.625")	WOOD
35	POLYURETHANE FOAM (BASF, 1.9lbs. DENSITY)	FOAM
36	IVES SURFACE BOLT (.25" STEEL)	STEEL
37	3/16" TAPCON ANCHOR (ELCO, 3.25" MIN. LG.)	STEEL
38	1/8" THK. CELLULAR GLAZING TAPE (STIK-II TAPE)	STEEL



NOTE:  
SIDELITE IS DIRECT SET INTO JAMB WITH  
#10 x 2" PH.F.H. WOOD SCREWS AT 6"  
FROM EACH END AND A MAX. OF 12"  
O.C. ON VERTICAL LEG JAMBS ONLY.

PRODUCT REVIEWED  
as complying with the Florida  
Building Code No. 62-012, C1  
Expiration Date 6/1/2012

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE: APR 05, 2004  
BY: [Signature]

BY: [Signature]  
1-2-04-03

PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 20-0207-0-6

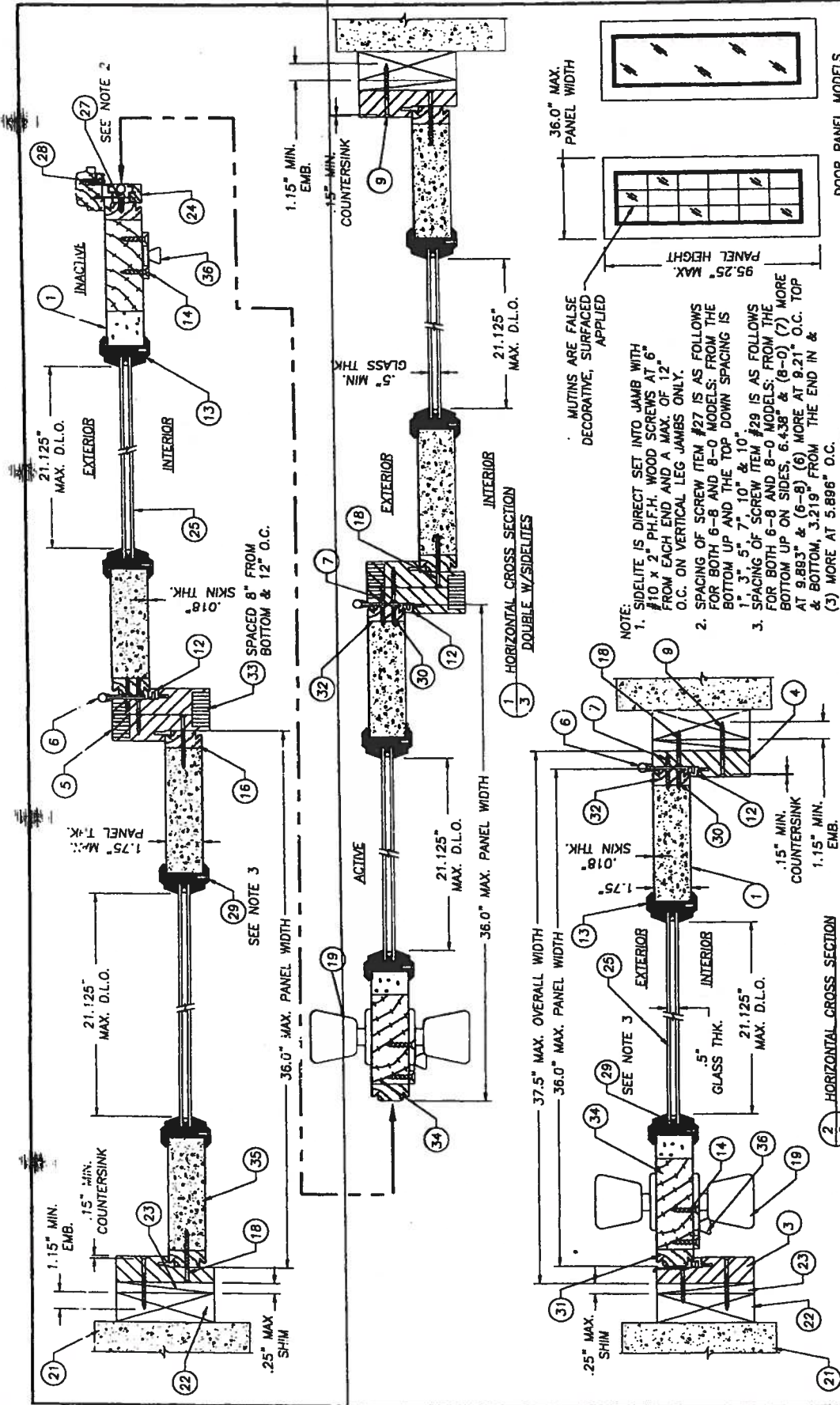
THERMA TRU®  
108 MUTZFELD RD.  
BUTLER, IN 46721  
PH. (219) 868-5811

PRODUCT:  
THERMA TRU WOODEDGE  
OUTSING UP TO 12-0  
8-0 W/3-0 SIDELITES  
& BILL OF MATERIALS

NO.	DATE	REVISIONS
1	4/11/00	GENERAL REVISION
2	3/09/01	GENERAL REVISION

R.M. BUILDING  
CONSULTANTS, INC.  
813.684.3831

DATE: 3/3/00  
SCALE: N.T.S.  
DWA. BY: T.J.H.  
CHK. BY: RW  
DRAWING NO.: S-2003  
SHEET 2 of 6



NOTE:

- SIDELITE IS DIRECT SET INTO JAMB WITH #10 x 2" PH.F.H. WOOD SCREWS AT 6" FROM EACH END AND A MAX. OF 12" O.C. ON VERTICAL LEG JAMBS ONLY.
- SPACING OF SCREW ITEM #29 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP AND THE TOP DOWN SPACING IS 1" 3" 5" 7" 10" & 10"
- SPACING OF SCREW ITEM #29 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP ON SIDES, 6.438" & (8-0) (7) MORE AT 9.883" & (6-8) (6) MORE AT 9.21" O.C. TOP & BOTTOM, 3.219" FROM THE END IN & (3) MORE AT 5.896" O.C.

DATE: 3/3/00  
 SCALE: N.T.S.  
 DWG. BR: TJH  
 CHK. BR: RW  
 DRAWING NO.: S-2003  
 SHEET: 3 of 6

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE: 12/11/00 BY: [Signature] PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 00-0267-546

PROJECT RENEWED Building Code with the Florida Building Code, 2001 Edition, 12/11/00. Expiration Date: 03/03/01. By: [Signature] Division

RW BUILDING CONSULTANTS, INC. 813.864.3831

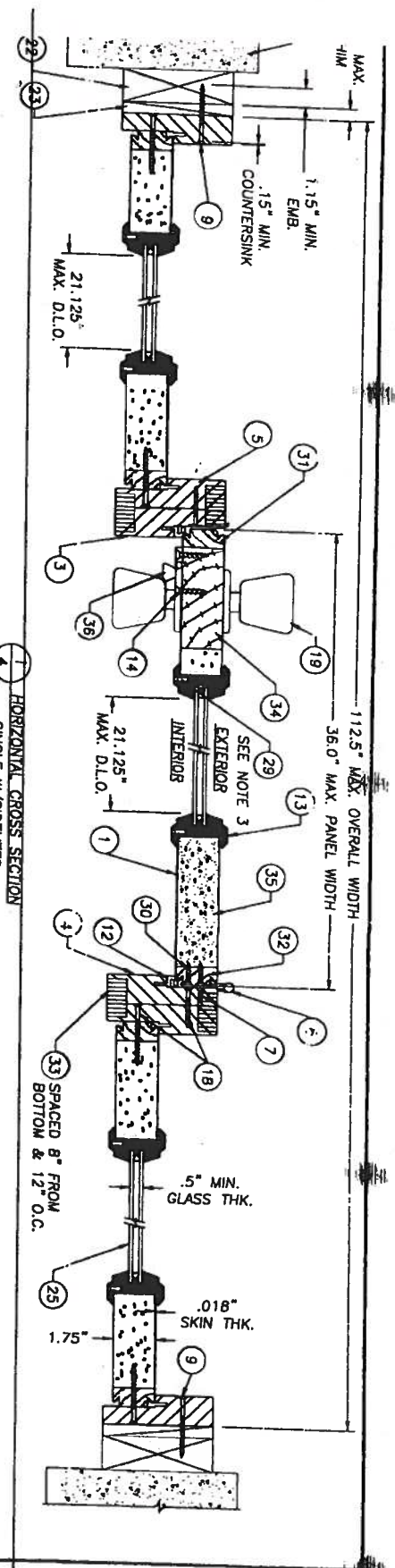
PRODUCT: THERMA TRU WOODGE OUTSWING UP TO 12'-0" x 8'-0" W/3'-0" SIDELITES

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS & DOOR MODELS

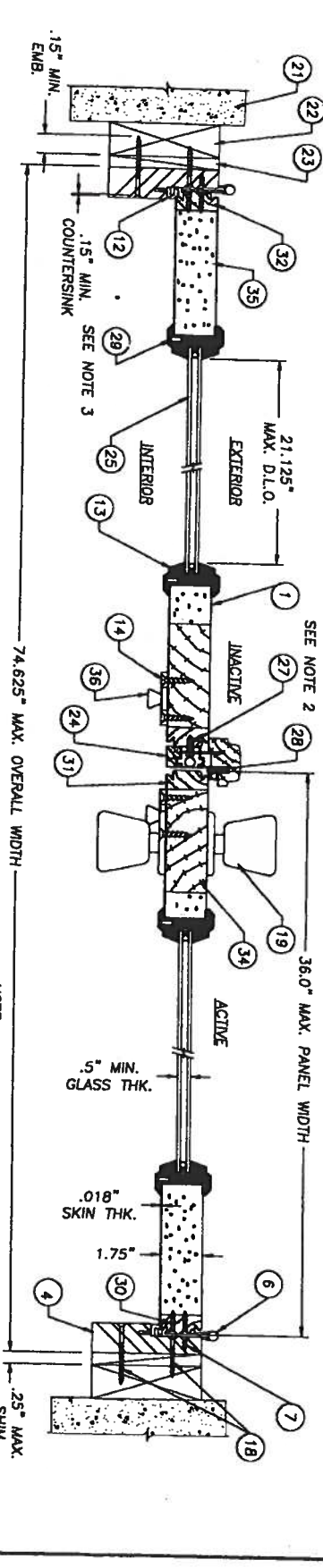
NO.	DATE	BY	REVISIONS
2	3/09/01	GENERAL REVISION RW	
1	4/11/00	GENERAL REVISION TJH	

THERMA TRU®  
 108 MUTZFELD Rd.  
 BUTLER, IN 46721  
 PH. (219) 868-5811

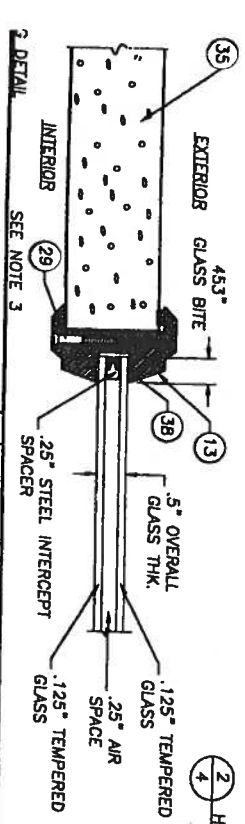
DOOR PANEL MODELS



1 HORIZONTAL CROSS SECTION  
4 SINGLE W/SIDELITES



2 HORIZONTAL CROSS SECTION  
4 DOUBLE



3 DETAIL  
SEE NOTE 3

NOTE:  
1. SIDELITE IS DIRECT SET INTO JAMB WITH #10 x 2" P.F.E.H. WOOD SCREWS AT 6" FROM EACH END AND A MAX. OF 12" O.C. ON VERTICAL LEG JAMBS ONLY.  
2. SPACING OF SCREW ITEM #27 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP AND THE TOP DOWN SPACING IS 1. 3. 5. 7. 10" & 10".  
3. SPACING OF SCREW ITEM #29 IS AS FOLLOWS FOR BOTH 6-8 AND 8-0 MODELS: FROM THE BOTTOM UP ON SIDES, 6.438" & (8-0) (7) MORE AT 9.893" & (6-8) (6) MORE AT 9.21" O.C. TOP & BOTTOM, 3.219" FROM THE END IN & (3) MORE AT 5.896" O.C.

**THERMA TRU®**  
108 MUTZFELD RD.  
BUTLER, IN 46721  
PH. (219) 868-5811

REVISIONS NO. DATE REVISIONS BY		PRODUCT: THERMA TRU WOODEDGE OUTSWING UP TO 12-0" x 8-0" W/3-0 SIDELITES		BUILDING CONSULTANTS, INC. 613.684.3831	APPROVED AS COMPARTING WITH THE SOUTH FLORIDA BUILDING CODE DATE APRIL 05, 2001 BY: [Signature] PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 00-0207-04	DATE: 3/3/00 SCALE: N.T.S. DRC. BY: TJH CHK. BY: RW DRAWING NO.: S-2003
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS & GLAZING DETAIL		REVISIONS				

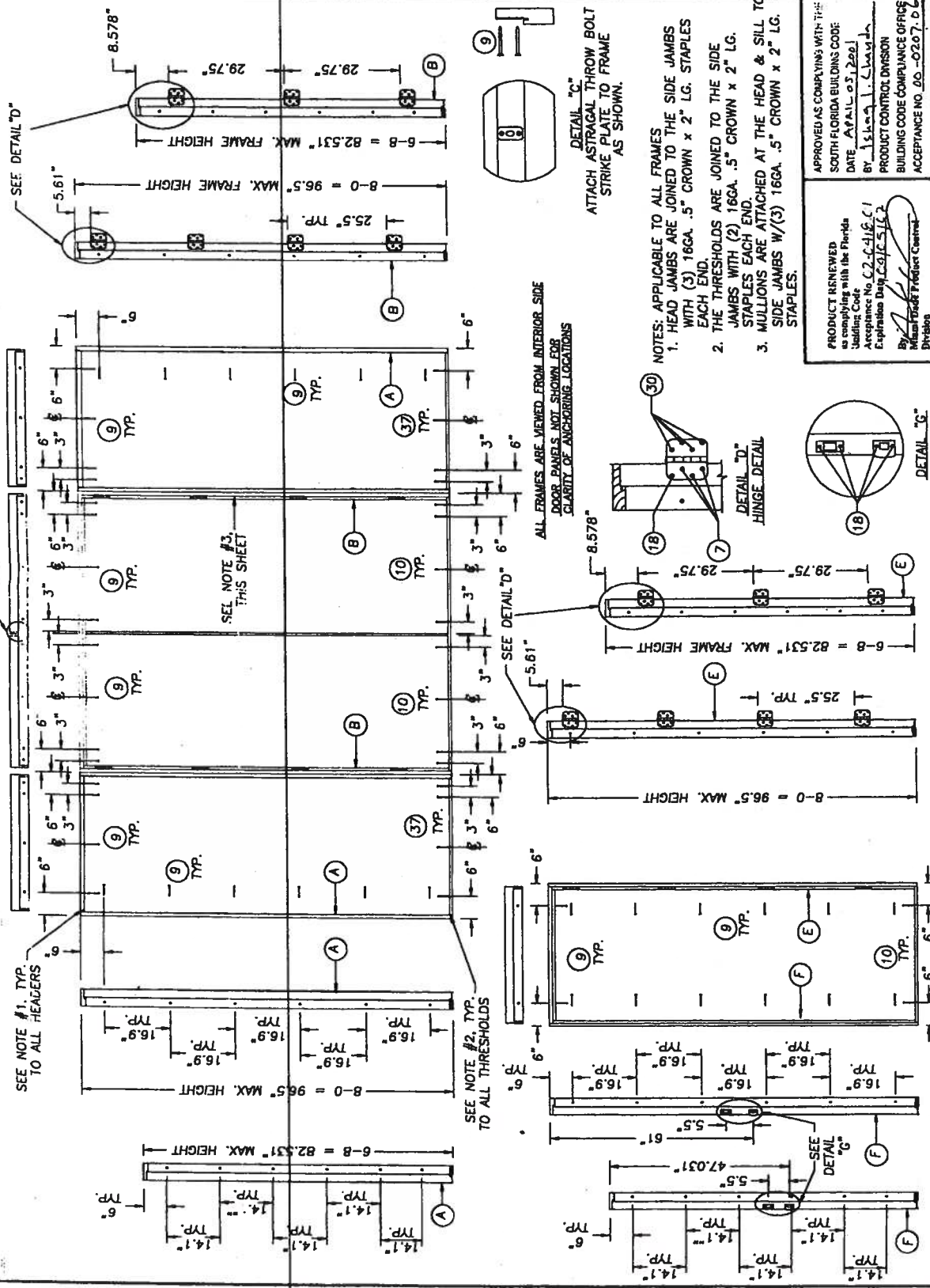
SEE NOTE #1, TYP.  
TO ALL HEADERS

SEE NOTE #2, TYP.  
TO ALL THRESHOLDS

SEE NOTE #3,  
THIS SHEET

SEE DETAIL "C"

SEE DETAIL "D"



DETAIL "C"  
ATTACH ASTRALGAL THROW BOLT  
STRIKE PLATE TO FRAME  
AS SHOWN.

DETAIL "D"  
HINGE DETAIL

DETAIL "C"

- NOTES: APPLICABLE TO ALL FRAMES
1. HEAD JAMBS ARE JOINED TO THE SIDE JAMBS WITH (3) 16GA. .5" CROWN x 2" LG. STAPLES EACH END.
  2. THE THRESHOLDS ARE JOINED TO THE SIDE JAMBS WITH (2) 16GA. .5" CROWN x 2" LG. STAPLES EACH END.
  3. MULLIONS ARE ATTACHED AT THE HEAD & SILL TO SIDE JAMBS W/(3) 16GA. .5" CROWN x 2" LG. STAPLES.

APPROVED AS COMPLYING WITH THE:  
SOUTH FLORIDA BUILDING CODE  
DATE: 4/11/00  
BY: J. H. W. (Signature)  
EXPIRATION DATE: 4/11/02

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. C2-C-416.C.1  
Expiration Date 4/11/02

By: (Signature)  
Division

PRODUCT: THERMA TRU WOODEDGE  
OUTSWING UP TO 12-0 x  
8-0 W/3-0 SIDELITES

PART OR ASSEMBLY:  
ANCHORING LAYOUTS

NO.	DATE	REVISIONS
1	4/11/00	GENERAL REVISION
2	3/08/01	GENERAL REVISION

DATE: 3/2/00  
SCALE: N.T.S.  
Dwg. BY: TJH  
CHK. BY: RW  
DRAWING NO.: S-2003  
SHEET 5 of 6

PH. (219) 868-5811  
108 MUTZFELD RD.  
BUTLER, IN 46721  
THERMA TRU®

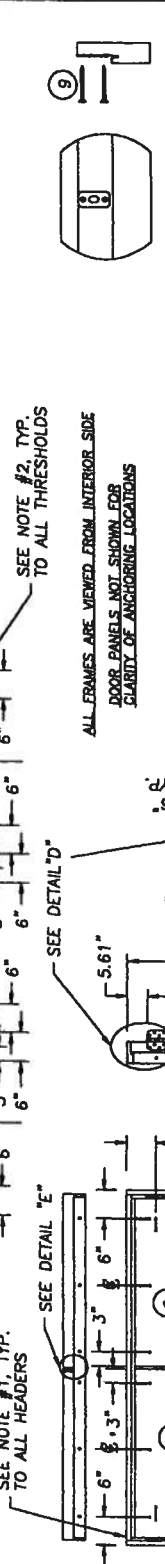
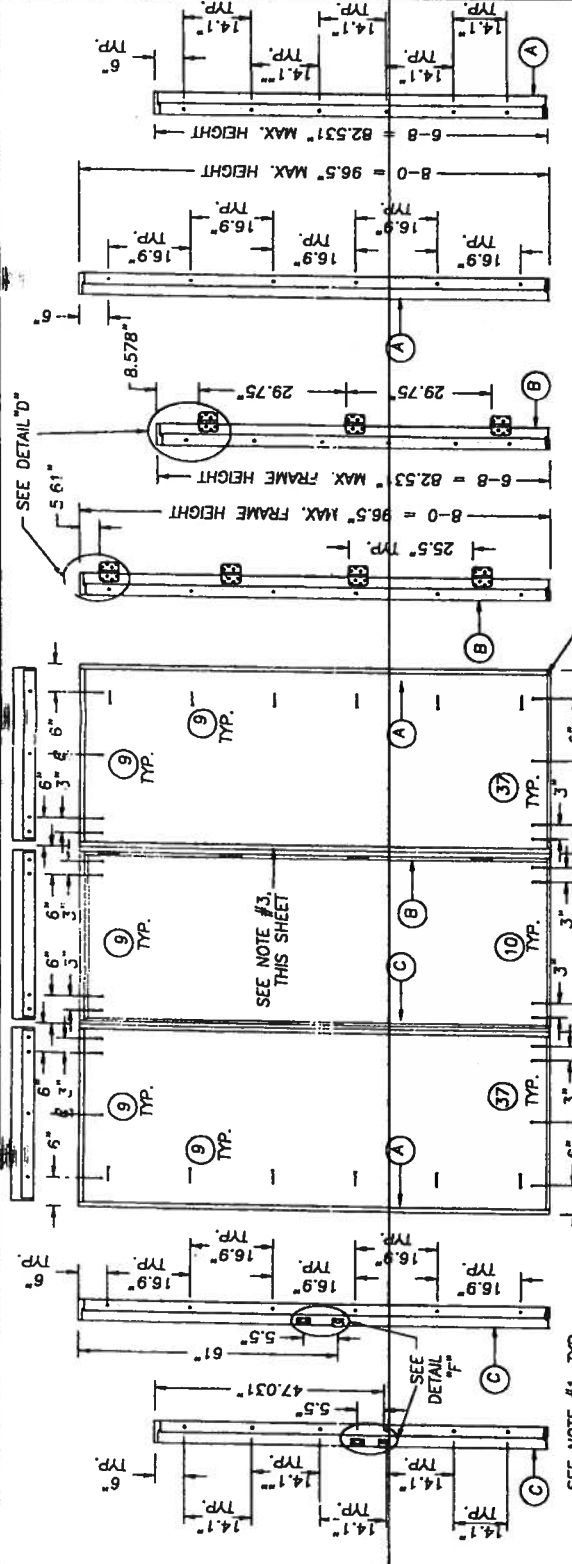
THERMATRU®  
 108 MUTZFELD RD.  
 BUTLER, IN 46721  
 PH. (219) 868-5811

Product: THERMA TRU WOODGE  
 OUTSING UP TO 12-0 x  
 8-0 W/3-0 SIDELITES  
 PART OR ASSEMBLY:  
 ANCHORING LAYOUTS

NO.	DATE	REVISIONS
1	4/11/00	GENERAL REVISIONS
2	3/08/01	GENERAL REVISIONS
3	11/08/01	GENERAL REVISIONS

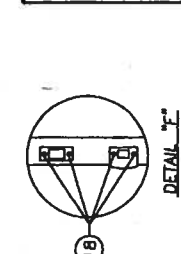
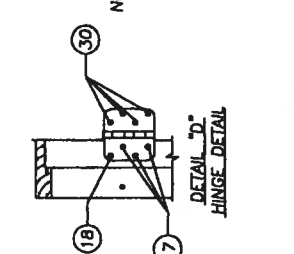
Building Consultants, Inc.  
 813.684.3831

DATE: 3/2/00  
 SCALE: N.T.S.  
 DWG. BY: T.J.H.  
 CHK. BY: R.W.  
 DRAWING NO.: S-2003  
 SHEET 6 of 6



NOTES: APPLICABLE TO ALL FRAMES  
 1. HEAD JAMBS ARE JOINED TO THE SIDE JAMBS WITH (3) 16GA. .5" CROWN x 2" LG. STAPLES EACH END.  
 2. THE THRESHOLDS ARE JOINED TO THE SIDE JAMBS WITH (2) 16GA. .5" CROWN x 2" LG. STAPLES EACH END.  
 3. MULLIONS ARE ATTACHED AT THE HEAD & SILL TO SIDE JAMBS W/(3) 16GA. .5" CROWN x 2" LG. STAPLES.

ALL FRAMES ARE VIEWED FROM INTERIOR SIDE  
 DOOR PANELS NOT SHOWN FOR CLARITY OF ANCHORING LOCATIONS



PRODUCT REVIEWED as complying with the SOUTH FLORIDA BUILDING CODE DATE 2/21/00 BY [Signature]  
 PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 00-0107-06



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

**Tamko Roofing Products, Inc.  
P.O. Box 1404  
Joplin, MO 64802**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: TAMKO Heritage Declaration & Heritage XL Roof Shingles**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This consists of pages 1 through 4.

The submitted documentation was reviewed by Frank Zuloaga, RRC



**NOA No.: 03-0620.01  
Expiration Date: 09/04/08  
Approval Date: 09/04/03  
Page 1 of 4**

## ROOFING ASSEMBLY APPROVAL

**Category:** Roofing  
**Sub-Category:** 07310 Composition Shingles  
**Materials:** Dimensional  
**Deck Type:** Wood

### 1. SCOPE:

This approves Tamko Heritage Declaration and Heritage XL Asphalt Shingles, manufactured by Tamko Roofing Products, Inc. as described in this Notice of Acceptance.

### 2. PRODUCT DESCRIPTION

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Heritage Declaration & Heritage XL	12" x 36"	TAS 110	A heavy weight dimensional asphalt shingle.

### 3. EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Asphalt Technologies, Inc.	TAS 100	TAP-066-02-01	01/09/03
		TAP-073-02-01	05/20/03
Underwriters Laboratories, Inc.	ASTM D 3462	R2919	06/12/03
Underwriters Laboratories, Inc.	TAS 107	03CA08442	06/12/03

### 4. LIMITATIONS

- 4.1 Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 4.2 Shall not be installed on roof mean heights in excess of 33 ft.
- 4.3 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

### 5. INSTALLATION

- 5.1 Shingles shall be installed in accordance with Roofing Application Standard RAS 115.
- 5.2 The manufacturer shall provide clearly written application instructions.
- 5.3 Exposure and course layout shall be in compliance with Detail 'A', attached.
- 5.4 Nailing shall be in compliance with Detail 'B', attached.

### 6. LABELING

- 5.1 Shingles shall be labeled with the Miami-Dade Logo or the wording "Miami-Dade County-Product Control Approved".

### 7. BUILDING PERMIT REQUIREMENTS

- 7.1 Application for building permit shall be accompanied by copies of the following:
  - 7.1.1 This Notice of Acceptance.
  - 7.1.2 Any other documents required by the Building Official or the applicable Building Code in order to properly evaluate the installation of this system.

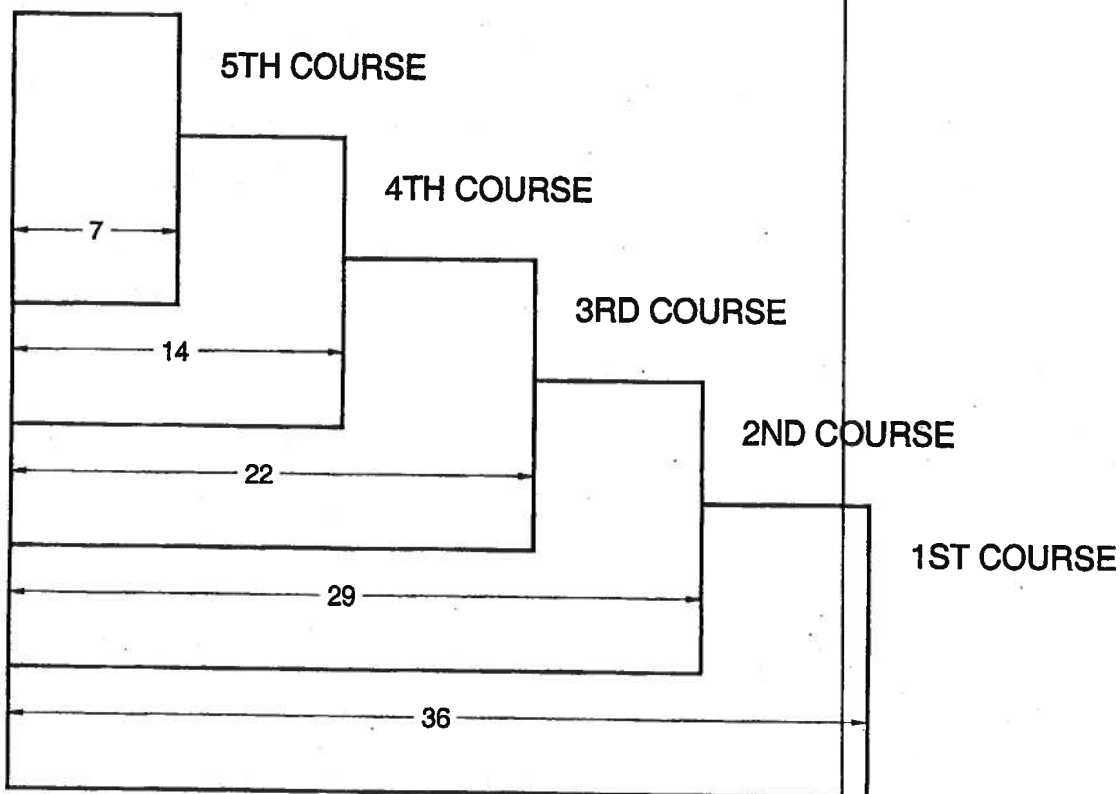


NOA No.: 03-0620.01  
 Expiration Date: 09/04/08  
 Approval Date: 09/04/03

DETAIL A

# HERITAGE DECLARATION & XL

All dimensions are in inches.

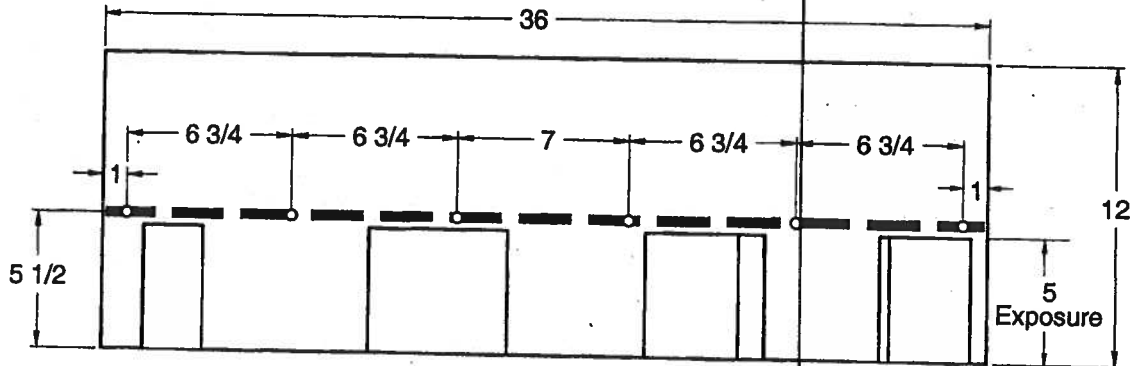


**DETAIL B**

**HERITAGE DECLARATION**

12" x 36" LAMINATED SHINGLE

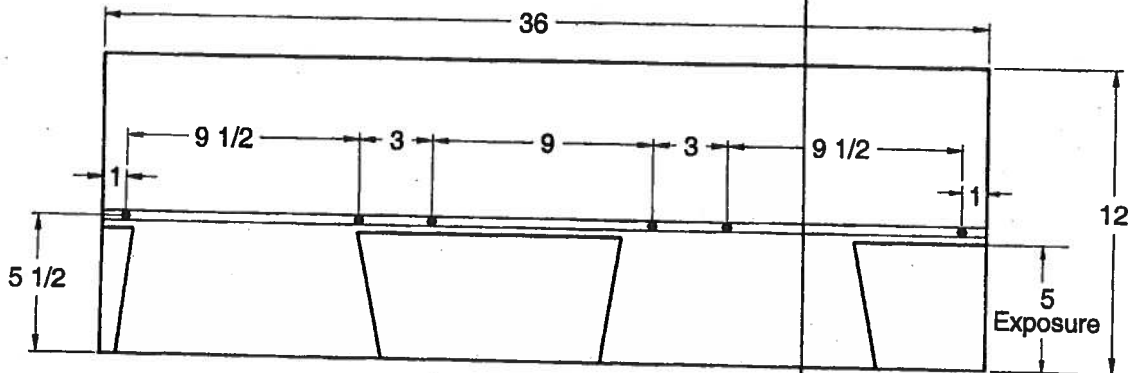
All dimensions are in inches.



**HERITAGE XL**

12" x 36" LAMINATED SHINGLE

All dimensions are in inches.



**END OF THIS ACCEPTANCE**





**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

**MI Home Products, Inc.  
650 West Market Street  
Gratz, PA 17030**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "BetterBilt D185SH/D3185SH" Aluminum Single Hung Window**

**APPROVAL DOCUMENT:** Drawing No. S-2422, titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: None**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Theodore Berman, P.E.

*Handwritten signature*  
2/13/2003  


**NOA No 03-1215.02  
Expiration Date: March 04, 2009  
Approval Date: March 04, 2004  
Page 1**

MI Home Products, Inc.

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. S-2422, titled "Non-Impact Single Hung Window Rectangle Circle Top & Oriel", sheets 1 through 5 of 5, prepared by RW Building Consultants, inc, dated 10/27/03 with revision "2", dated 02/10/04, signed and sealed by Wendell Haney, P.E.

**B. TESTS**

1. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Architectural Testing, Inc., Test Report No. ATI 03056, dated 11/11/03, signed by Joseph A. Reed, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 12/11/03, signed and sealed by Lyndon F. Schmidt, P.E.
2. Revised Anchor Calculations, and structural analysis, prepared by R.W. Building Consultants, Inc., dated 02/10/04, signed and sealed by Lyndon F. Schmidt, P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

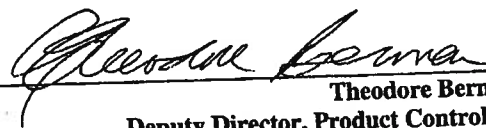
1. None.

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated December 09, 2003, signed and sealed by Lyndon F. Schmidt, P.E.
2. Statement letter of no financial interest with the laboratory that performed the Test Report No. ATI 03056, dated November 08, 2003, signed by Stu White, Design Engineering Manager.

**G. OTHER**

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

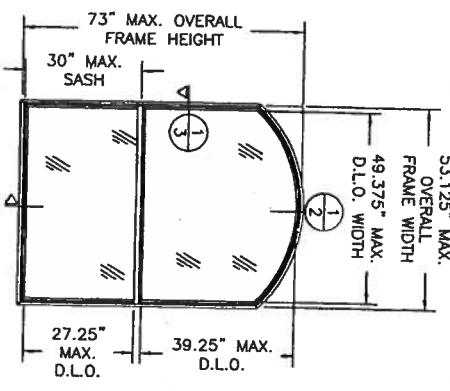


Theodore Berman, P.E.  
Deputy Director, Product Control Division

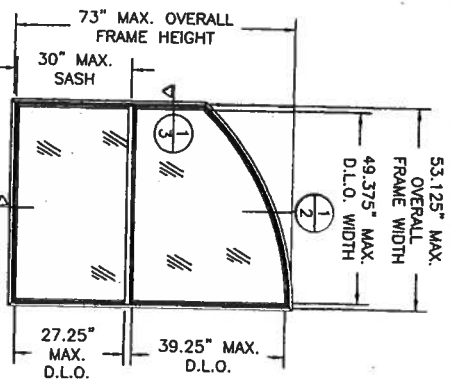
NOA No 03-1215.02  
Expiration Date: March 04, 2009  
Approval Date: March 04, 2004

**MI HOME PRODUCTS**  
 650 WEST MARKET STREET • GRANTZ, PA • 17030-0370  
**SERIES BETTERBILT D185SH/D3185SH**  
**ALUMINUM SINGLE HUNG WINDOW**

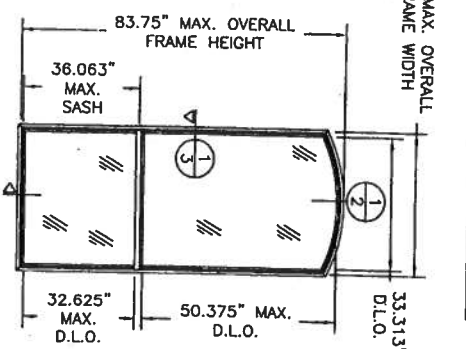
- GENERAL NOTES:**
1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE "HVHZ" OF THE FLORIDA BUILDING CODE.
  2. WOOD BUCKS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.
  3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
  4. FOR DESIGN PRESSURE RATING SEE TABLE THIS SHEET.
  5. INSPECTOR OF THIS SYSTEM INSTALL AREA REQUIRES THE USE OF APPROVED SHUTTER/EXTERNAL PROTECTION DEVICE COMPLYING WITH HVHZ REQUIREMENTS. INSTALLATION OF THIS SYSTEM OUTSIDE OF HVHZ SHALL MEET THE APPLICABLE CODE REQUIREMENTS FOR WINDBORNE DEBRIS PROTECTION.
  6. THIS PRODUCT MEETS WATER REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES.



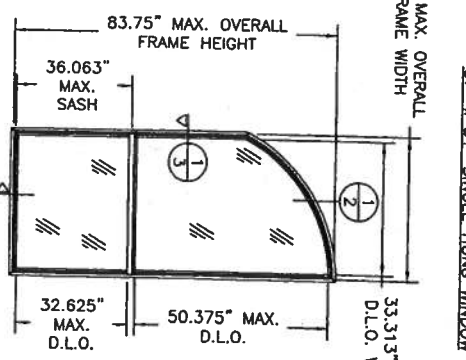
53.125" MAX. OVERALL FRAME WIDTH  
 73" MAX. OVERALL FRAME HEIGHT  
 30" MAX. SASH  
 53" x 73" SINGLE HUNG WINDOW  
 HALF CIRCLE TOP ORIEL



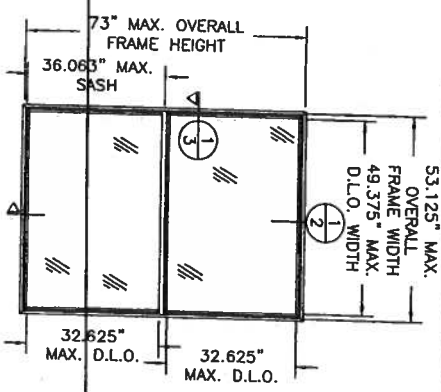
53.125" MAX. OVERALL FRAME WIDTH  
 73" MAX. OVERALL FRAME HEIGHT  
 30" MAX. SASH  
 53" x 73" SINGLE HUNG WINDOW  
 HALF CIRCLE TOP ORIEL



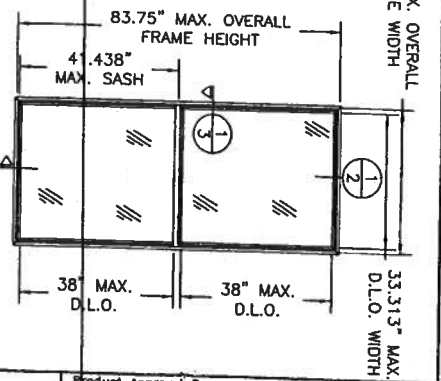
36" MAX. OVERALL FRAME WIDTH  
 83.75" MAX. OVERALL FRAME HEIGHT  
 36.063" MAX. SASH  
 37" x 84" SINGLE HUNG WINDOW  
 CIRCLE TOP ORIEL



36" MAX. OVERALL FRAME WIDTH  
 83.75" MAX. OVERALL FRAME HEIGHT  
 36.063" MAX. SASH  
 37" x 84" SINGLE HUNG WINDOW  
 HALF CIRCLE TOP ORIEL



53.125" MAX. OVERALL FRAME WIDTH  
 73" MAX. OVERALL FRAME HEIGHT  
 36.063" MAX. SASH  
 53" x 73" SINGLE HUNG WINDOW  
 CIRCLE TOP ORIEL



36" MAX. OVERALL FRAME WIDTH  
 83.75" MAX. OVERALL FRAME HEIGHT  
 41.438" MAX. SASH  
 37" x 84" SINGLE HUNG WINDOW  
 CIRCLE TOP ORIEL

**TABLE OF CONTENTS**

SHEET #	DESCRIPTION
1	GENERAL NOTES & TYPICAL ELEVATIONS
2	VERTICAL CROSS SECTIONS
3	HORIZONTAL CROSS SECTIONS & GLAZING DETAIL
4	ANCHORING LOCATIONS
5	COMPONENTS, BILL OF MATERIALS

**DESIGN PRESSURE RATINGS (PSF)**

GLASS	MAX. SIZE	DP POS.	DP NEG.
1/8" Temp.	0A 53" x 73"	+56.7	-69.3
1/8" Temp.	0A 37" x 84"	+56.7	-69.3
3/16" Ann.	0A 53" x 73"	+42.0	-42.0
3/16" Ann.	0A 37" x 84"	+56.7	-58.0

ALL ELEVATIONS ARE VIEWED FROM EXTERIOR

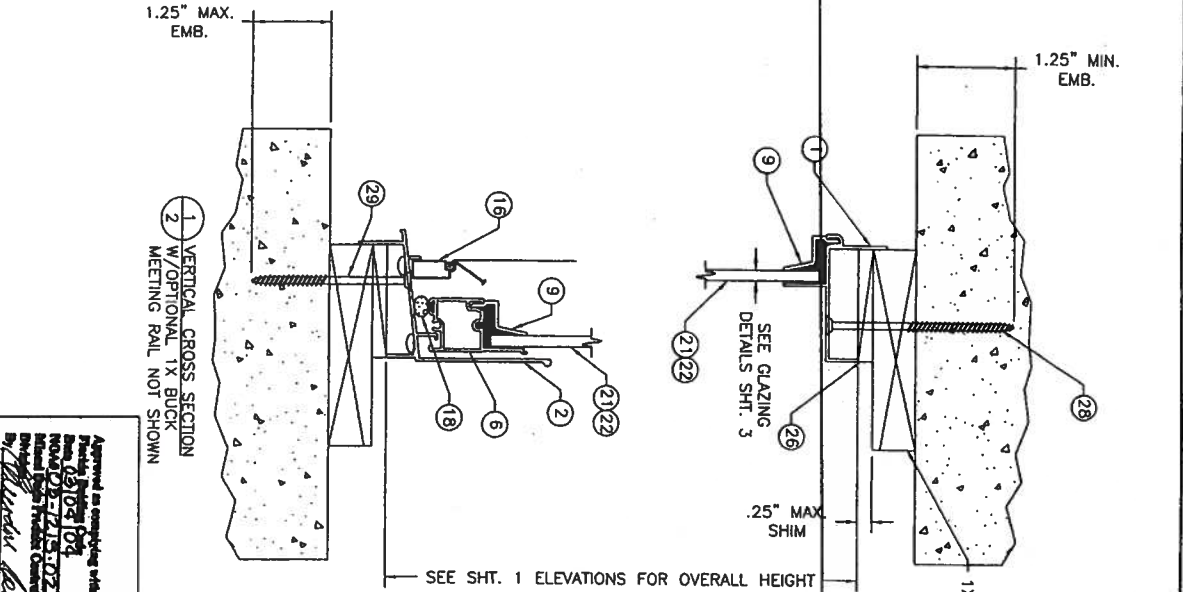
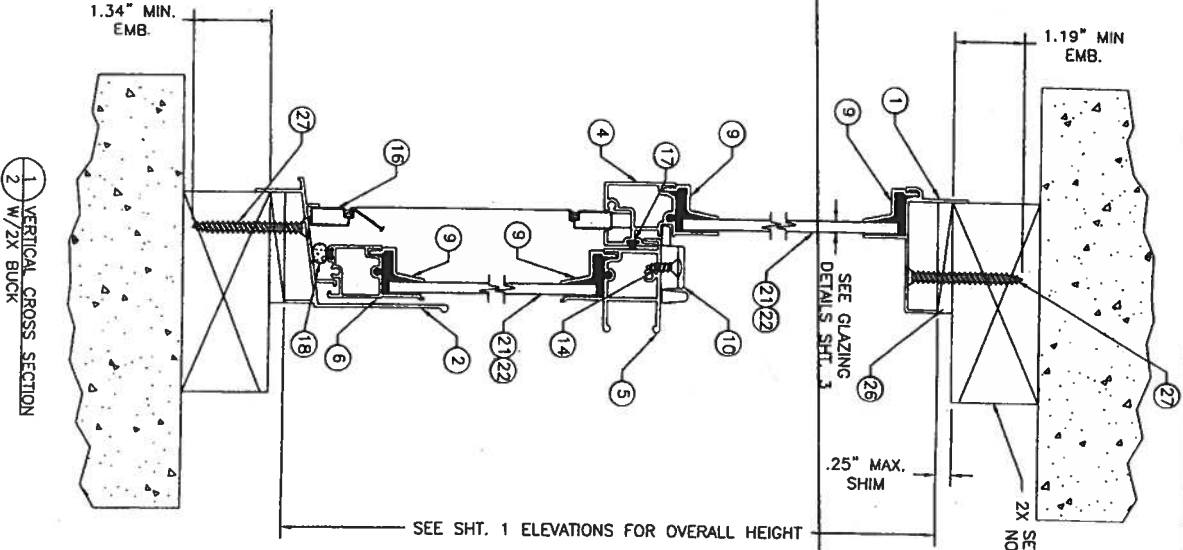
Approved as complying with the Florida Building Code, Chapter 6, Part 9, Section 905.2.1, by the Florida Board of Professional Engineers, Certificate of Registration No. 9813  
 Wendell Henry, P.E.  
 2/10/04

**REVISIONS**

NO.	DATE	DESCRIPTION	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

**PRODUCT:**  
 NON-IMPACT SINGLE HUNG WINDOW RECTANGLE, CIRCLE TOP & ORIEL  
**PART OR ASSEMBLY:**  
 GENERAL NOTES & TYPICAL ELEVATIONS  
**BY:**

Product Approval Documents Prepared By:  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230 Valrico FL 33595  
 Phone No.: 813.809.9197  
 Florida Board of Professional Engineers  
 Certificate of Registration No. 9813  
 2/10/04  
 Wendell Henry, P.E. No. 54158



Approved as complying with the  
 Florida Building Code  
 Building Official  
 Ronald D. Williams, P.E.  
 Building Official  
 Division of Building  
 by *Wendell Hodge*

DATE:	10/27/03
SCALE:	N.T.S.
CHK. BY:	JUH
DRWG. NO.:	S-2442
SHEET:	2 OF 5

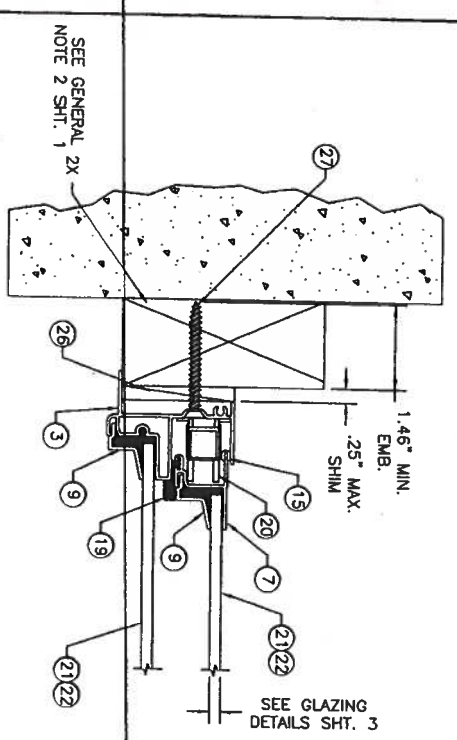
NO.	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

PRODUCT:  
 NON-IMPACT SINGLE HUNG  
 WINDOWS RECTANGLE,  
 CIRCLE TOP & OREIAL

PART OR ASSEMBLY:  
 VERTICAL  
 CROSS SECTIONS

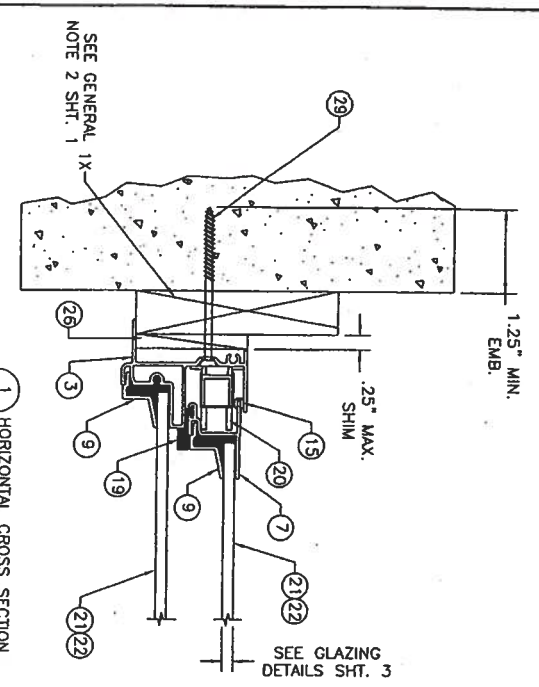
Product Approval Documents Prepared By:  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230 Valrico, FL 33595  
 Phone No.: 813.659.9197  
 Florida Board of Professional Engineers  
 Certificate of Authorization No. 9813  
*Wendell Hodge*  
 Wendell Hodge, P.E. No. 54156

2/10/04



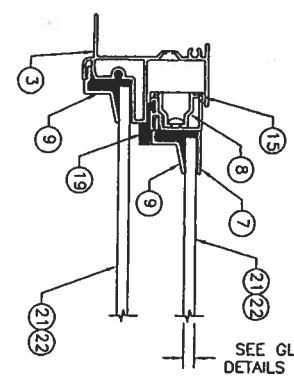
1 HORIZONTAL CROSS SECTION  
3 W/2X BUCK

SEE GLAZING DETAILS SHT. 3



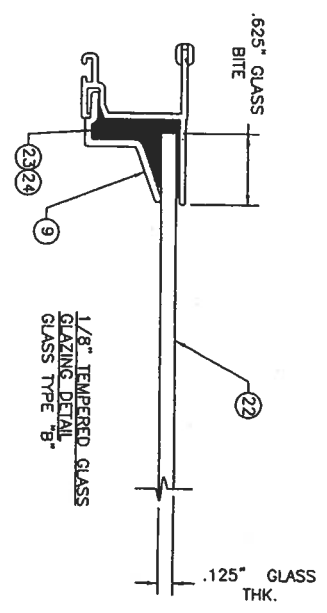
1 HORIZONTAL CROSS SECTION  
3 W/1X BUCK

SEE GLAZING DETAILS SHT. 3

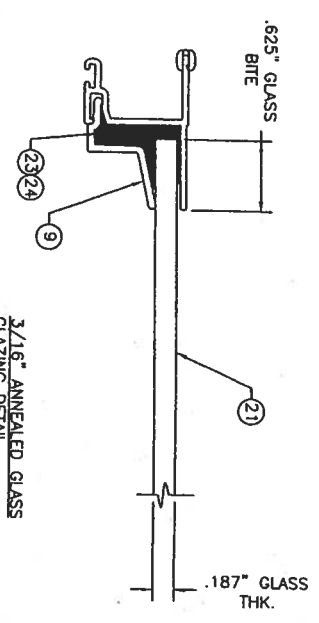


1 HORIZONTAL CROSS SECTION  
3 SHOWING SASH CAM MASONRY & BUCK NOT SHOWN

SEE GLAZING DETAILS SHT. 3



1/8" TEMPERED GLASS  
GLAZING DETAIL  
GLASS TYPE "B"



3/16" ANNEALED GLASS  
GLAZING DETAIL  
GLASS TYPE "A"

- NOTES:
1. THE MAIN FRAME HEAD, SIDES AND SILL ARE CONNECTED TOGETHER AT EACH CORNER WITH (2) ITEM #11, A #8 x 3/4" PHILLIPS PAN HEAD SCREW. THE SCREWS RUN FROM THE HEAD DOWN INTO THE SIDES AND FROM THE SILL UP INTO THE SIDES.
  2. THE FIXED MEETING RAIL IS SECURED TO THE SIDES WITH (2) EACH SIDE ITEM #12, A #8 x 1 1/4" PHILLIPS PAN HEAD SCREW.
  3. THE SASH CORNERS ARE CONNECTED TOGETHER WITH (2) EACH CORNER ITEM #13, A #6 x 3/4" PHILLIPS PAN HEAD SCREW.

Approved as complying with the Florida Building Code  
 Florida Building Code  
 Chapter 6  
 Part 602  
 Section 602.10  
 Minimum Wind Resistance  
 for Windows  
 by  
 Wendell Hailer

DATE:	10/27/03
SCALE:	N.T.S.
CHK. BY:	TJH
DRWING NO.:	S-2422
SHEET:	3 OF 5

NO.	DATE	REVISIONS	BY
2	2/10/04	CORRECT DP TABLE	RW
1	01/04	REVISED PER DADE LETTER	WH

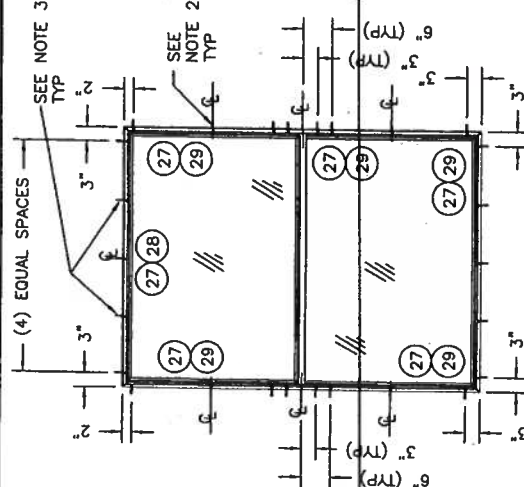
PRODUCT:  
 NON-IMPACT SINGLE HUNG  
 WINDOWS RECTANGLE,  
 CIRCLE TOP & OREIL

PART OR ASSEMBLY:  
 HORIZONTAL CROSS SECTIONS  
 & GLAZING DETAILS

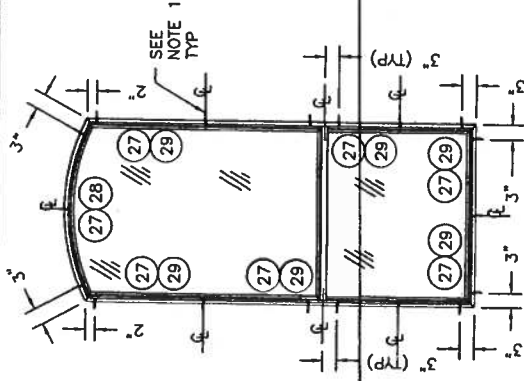
Product Approval Documents Prepared By:  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230 Valrico FL 33595  
 Phone No.: 813.659.9197

Florida Board of Professional Engineers  
 Certificate of Authorization No. 9813  
 Wendell Hailer  
 Wendell Hailer, P.E. NO. 54158

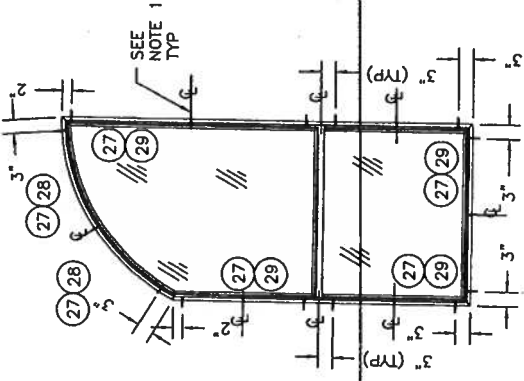
2/10/04



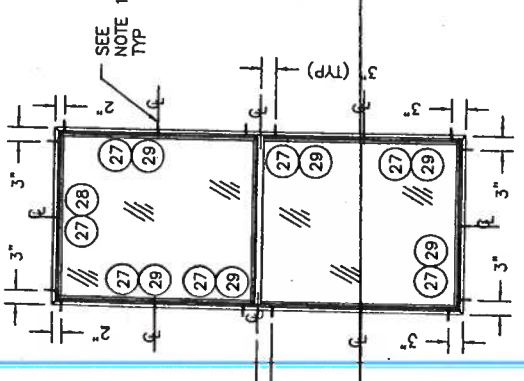
53" x 73" SINGLE HUNG WINDOW



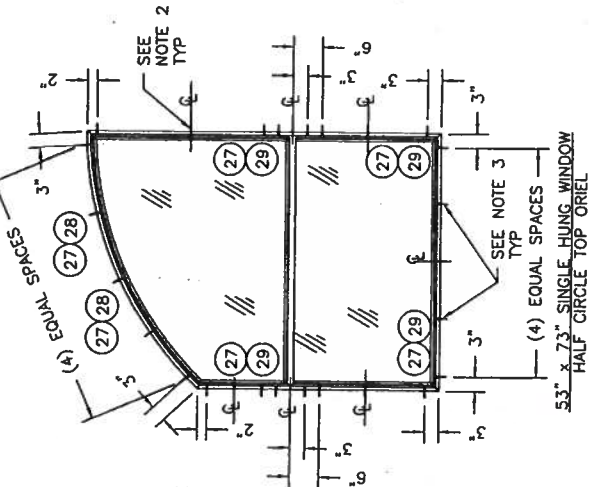
37" x 84" SINGLE HUNG WINDOW  
CIRCLE TOP ORIEL



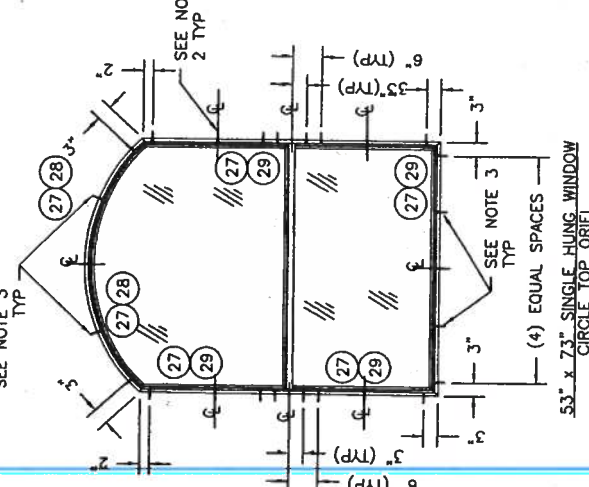
37" x 84" SINGLE HUNG WINDOW  
HALF CIRCLE TOP ORIEL



37" x 84" SINGLE HUNG WINDOW



53" x 73" SINGLE HUNG WINDOW  
HALF CIRCLE TOP ORIEL



53" x 73" SINGLE HUNG WINDOW  
CIRCLE TOP ORIEL

- NOTES:
1. FOR UNITS SMALLER THAN 30"x60" DO NOT INSTALL ANCHOR AT CENTER LOCATION.
  2. FOR UNITS SMALLER THAN 53"x60" OR SMALLER THAN 30"x66" DO NOT INSTALL ANCHOR AT CENTER LOCATION.
  3. FOR UNITS SMALLER THAN 36"x66" DO NOT INSTALL ANCHORS AT EITHER SIDE OF CENTER ANCHOR AT HEAD AND SILL JAMBS.

Product Approval Documents Prepared By:  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230 Venice FL 33595  
 Phone No: 813.558.9197  
 Florida Board of Professional Engineers  
 Certificate of Authorization No. 9813  
 2/10/04  
 Wendell Hopewell, P.E. No. 54158

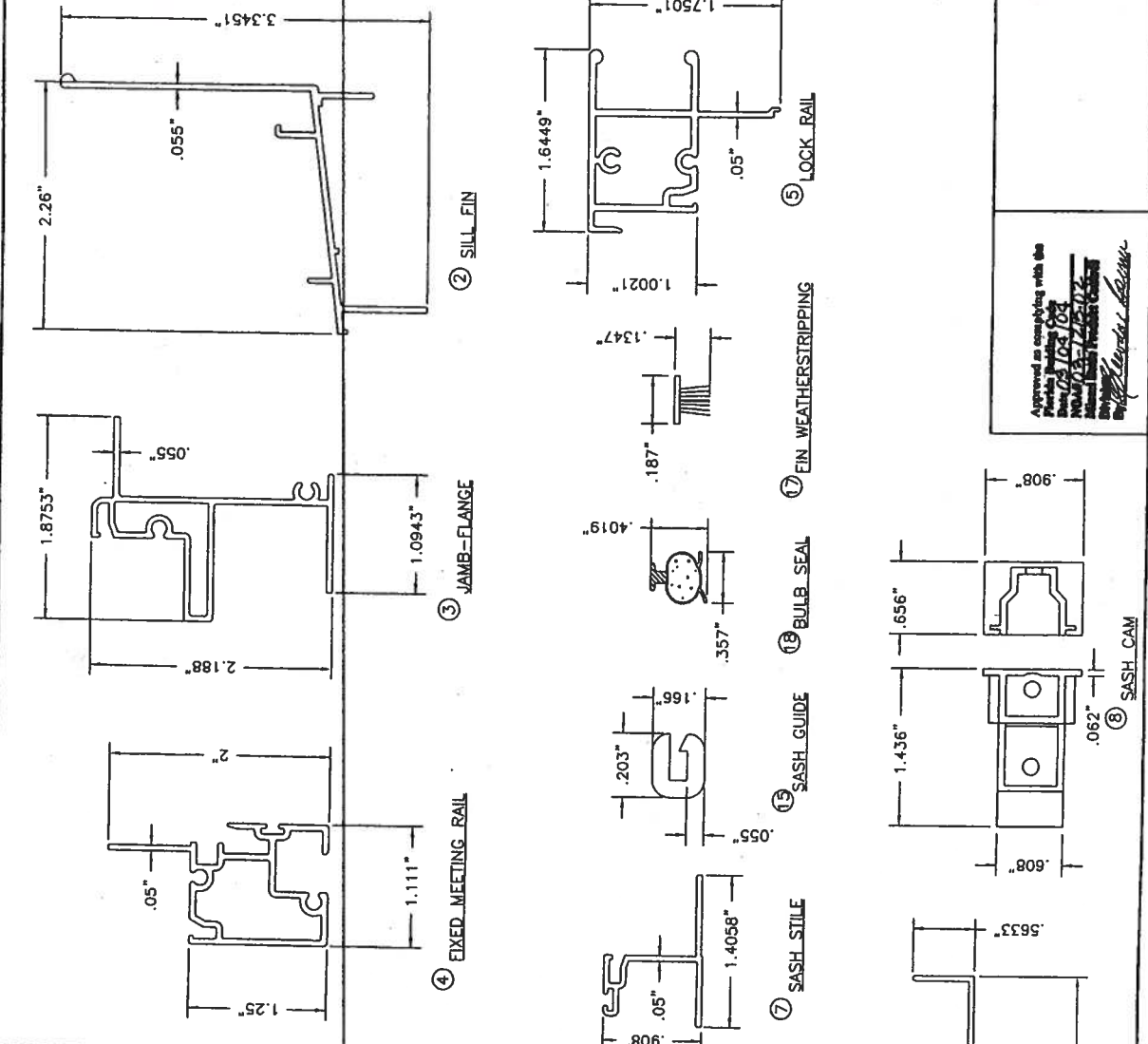
PRODUCT:	NON-IMPACT SINGLE HUNG WINDOW RECTANGLE, CIRCLE TOP & ORIEL
PART OR ASSEMBLY:	ANCHORING LOCATIONS
RW	
WH	
BY	

NO	DATE	REVISIONS
1	01/04	REVISED PER DADE LETTER
2	2/10/04	CORRECT DP TABLE

DATE: 10/27/03  
 SCALE: N.T.S.  
 DWG. BY: T.J.H.  
 CHK. BY: RW  
 DRAWING NO.: S-2422  
 SHEET 4 OF 5

Approved as existing with the  
 Florida Building Code  
 2001 Edition  
 10/27/03  
 10/27/03  
 10/27/03  
 10/27/03

BILL OF MATERIALS	
ITEM	DESCRIPTION
1	EXTRUDED ALUMINUM SINGLE HUNG 1/2" HEAD #CM-18501 BY MI METALS
2	EXTRUDED ALUMINUM SINGLE HUNG 1/2" SILL #CM-18502 BY MI METALS
3	EXTRUDED ALUMINUM SINGLE HUNG 1/2" JAMB #CM-18503 BY MI METALS
4	EXTRUDED ALUMINUM SINGLE HUNG FIXED MEETING RAIL #CM-18504 BY MI METALS
5	EXTRUDED ALUMINUM SINGLE HUNG SASH LOCK RAIL #CM-18505 BY MI METALS
6	EXTRUDED ALUMINUM SINGLE HUNG SASH BOTTOM RAIL #CM-18506 BY MI METALS
7	EXTRUDED ALUMINUM SINGLE HUNG SASH STILE #CM-18507 BY MI METALS
8	SASH CAM #1-185 BY BSI
9	GLAZING BEAD #V-185 BY MI PLASTICS
10	LOCK #30240-402 BY REFLECTOLITE
11	MAIN FRAME SCREW #8 x 3/4" PHILLIPS PAN HEAD
12	MEETING RAIL SCREW #8 x 1 1/4" PHILLIPS PAN HEAD
13	SASH SCREW #6 x 3/4" PHILLIPS PAN HEAD
14	LOCK SCREW #8 x 5/8" PHILLIPS FLAT HEAD -PTD
15	SASH GUIDE #80-02-8207 BY PLASTICS, AZ
16	WINDOW SCREEN
17	FIN WEATHERSTRIPPING .187" x .250" BY AMESBURY
18	BULB SEAL #32002 BY AMESBURY
19	DUST PLUG 5/8" x 7/8" x .25" BY AMESBURY
20	5/8" BLOCK & TACKLE 150 SERIES BY BSI
21	GLASS "A" SGL GLAZED 3/16" ANN. BY GUARDIAN
22	GLASS "B" SGL GLAZED 1/8" TEMP. BY GUARDIAN
23	BACKBEDDING #SM-2100 BY SCHNEE MOREHEAD
24	BACKBEDDING PURECTGLAZE-H (HOTMELT)
25	GLASS SHIM 1/8" x 1/4" x 1" BY SECON
26	1/4" MAX SHIM
27	#12 X 2" PHILLIPS FLAT HEAD SHEET METAL SCREW
28	3/16" x 3 1/4" ELCO TAPCON ANCHOR
29	3/16 x 3 1/4" ELCO TAPCON ANCHOR



Product Approved Documents Prepared By: BUILDING CONSULTANTS, INC. P.O. Box 230 VAIL RD. 33595 Phone No. 813.659.9197 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Wendell Honey, P.E. NO. 70756

REVISIONS

NO.	DATE	REVISIONS
1	01/04	REVISED PER DATE LETTER
2	2/10/04	CORRECT DP TABLE

DATE: 10/27/03  
SCALE: N.T.S.  
DWG. BY: TJH  
CHK. BY: RW  
DRAWING NO.: S-2422  
SHEET 5 OF 5

PRODUCT: NON-IMPACT SINGLE HUNG WINDOWS RECTANGLE, CIRCLE TOP & OREAL  
PART OR ASSEMBLY:  
BILL OF MATERIALS & UNIT COMPONENTS  
BY: WH  
BY:

Approved as complying with the Florida Building Code, Chapter 63, Part 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.



## *Aluminum Single Hung and Picture Windows*

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### **Series 130/131/135/136**

**2001 Florida Product Approval #1950.1(2,3,4) / 1954.1(2,3)**

**2004 Florida Product Approval #5768.1**

- **Test Reports**
- **Installation Detail**
- **Comparative Analysis**

### **Series 140/141/145/146**

**2001 Florida Product Approval #1950.6(7,8) / 1954.4(5,6,7)**

**2001 Florida Product Approval #5768.2/5769.1**

- **Test Reports**
- **Installation Details**
- **Comparative Analysis**

### **Series 330/331/335/336**

**2001 Florida Product Approval #1950.11(12,13,14)**

- **Test Reports**
- **Installation Detail**
- **Comparative Analysis**

### **Series 340/341/345/346**

**2001 Florida Product Approval #1950.15(16,17,18,19) / 1954.10(11,12)**

**2004 Florida Product Approval #5768.3**

- **Test Reports**
- **Installation Detail**
- **Comparative Analysis**

**Series 530/531/535/536**

**2001 Florida Product Approval #3210.2(3, 4)**

- **Test Reports**
- **Installation Detail**
- **Comparative Analysis**

**Series 540/541/545/546**

**Florida Product Approval #3210.2(3,4)**

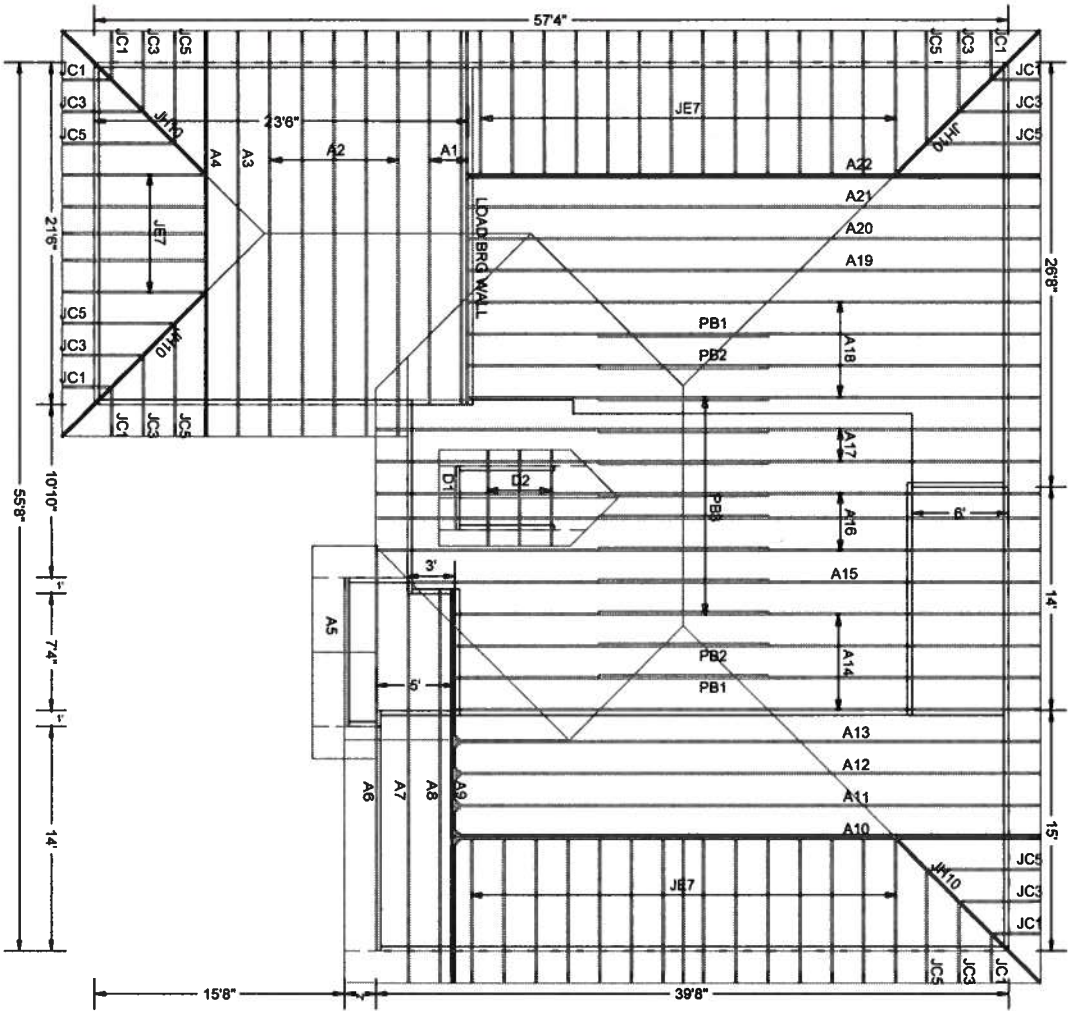
- **Test Reports**
- **Installation Detail**
- **Comparative Analysis**

**Series 551/561/556/566 (Impact)**

**Florida Product Approval #1950.22**

**561 Florida Product Approval #5768.4**

- **Test Reports**



**W/B. Howland Truss Co.**  
 P.O. Box 700  
 Live Oak, FL 32064  
 (386) 362-1235  
 (386) 362-7124 (fax)

**ROOF PITCH:** 8/12  
**CLG PITCH:** N/A  
**OVERHANG:** 24" PLUMB CUT  
**LOADING:** 40 PSF T./SHINGLE  
**WIND LOAD:** 110 MPH/ENCLOSED  
**EXT WALLS:** 2x4 FRAMING  
**DATE:** 1-3-07

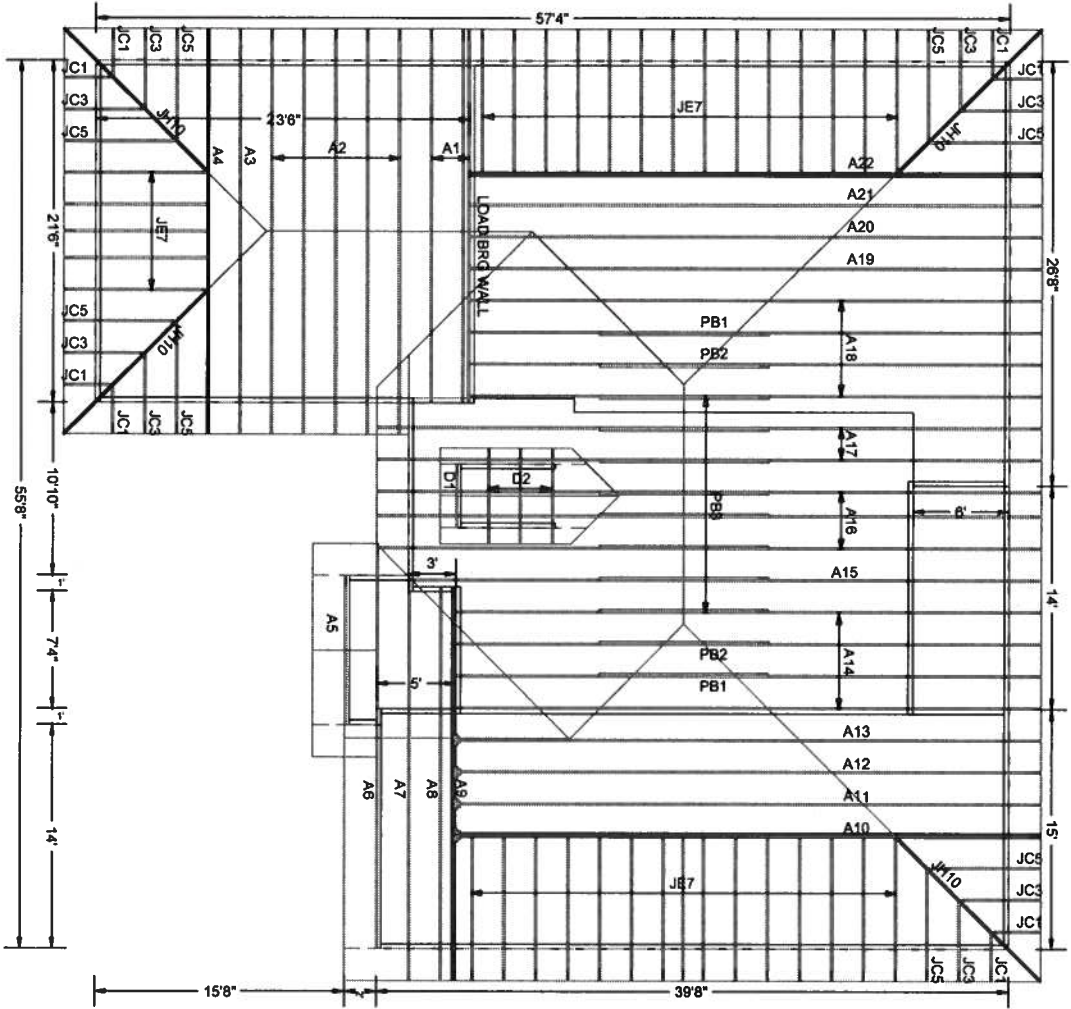
**IMPORTANT DESIGN NOTES:**  
 TRUSSES ARE DESIGNED FOR DORMER  
 TO BE FALSE

**Roof Plane Sheathing Area = 3784 sq. ft**  
**Gable Sheathing Area = 120 sq. ft**  
**Total Sheathing Area = 3904 sq. ft**  
**Fascia Material = 294 linear ft**  
**Valley Flashing Material = 56 linear ft**  
**Ridge Cap Material = 63 linear ft**  
**Hip Ridge Material = 136 linear ft**

Job Name: Lot 3 Laurel Lakes II  
 Customer: J.L. DUPREE  
 Designer: Chris McCall

**JOB NO:**  
 4149

**PAGE NO:**  
 1 OF 1



**W/B Howland Truss Co.**  
 P.O. Box 700  
 Live Oak, FL 32064  
 (386) 362-1235  
 (386) 362-7124 (fax)

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**CLG PITCH:** N/A  
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Job Name: Lot 3 Laurel Lakes II  
 Customer: J.L. DUPREE  
 Designer: Chris McCall

JOB NO:  
 4149

PAGE NO:  
 1 OF 1

# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 567  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID:1T4U215-Z0113150618

Truss Fabricator: W.B. Howland  
Job Identification: 4149-/Lot 3 Laurel Lakes II /J.L. DUPREE -- LAKE CITY, FL  
Truss Count: 32  
Model Code: Florida Building Code 2004 and 2006 Supplement  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.25.  
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 - 32.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 02/13/2007

#### Notes:

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

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

Details: BRCLBSUB-A11030EE-GBLLETIN-A11015EE-CNBRGBLK-

#	Ref	Description	Drawing#	Date
1	90237--A1		07044039	02/13/07
2	90238--A2		07044038	02/13/07
3	90239--A3		07044037	02/13/07
4	90240--A4		07044033	02/13/07
5	90241--A5		07044040	02/13/07
6	90242--A6		07044018	02/13/07
7	90243--A7		07044019	02/13/07
8	90244--A8		07044020	02/13/07
9	90245--A9		07044021	02/13/07
10	90246--A10		07044032	02/13/07
11	90247--A11		07044001	02/13/07
12	90248--A12		07044002	02/13/07
13	90249--A13		07044003	02/13/07
14	90250--A14		07044034	02/13/07
15	90251--A15		07044030	02/13/07
16	90252--A16		07044035	02/13/07
17	90253--A17		07044036	02/13/07
18	90254--A18		07044027	02/13/07
19	90255--A19		07044026	02/13/07
20	90256--A20		07044025	02/13/07
21	90257--A21		07044023	02/13/07
22	90258--A22		07044022	02/13/07
23	90259--D1		07044014	02/13/07
24	90260--D2		07044024	02/13/07
25	90261--JC1		07044016	02/13/07
26	90262--JC3		07044015	02/13/07
27	90263--JC5		07044042	02/13/07
28	90264--JE7		07044017	02/13/07
29	90265--JH10		07044041	02/13/07
30	90266--PB1		07044028	02/13/07
31	90267--PB2		07044029	02/13/07
32	90268--PB3		07044031	02/13/07







Top chord 2x4 SP #2 N  
 3ot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

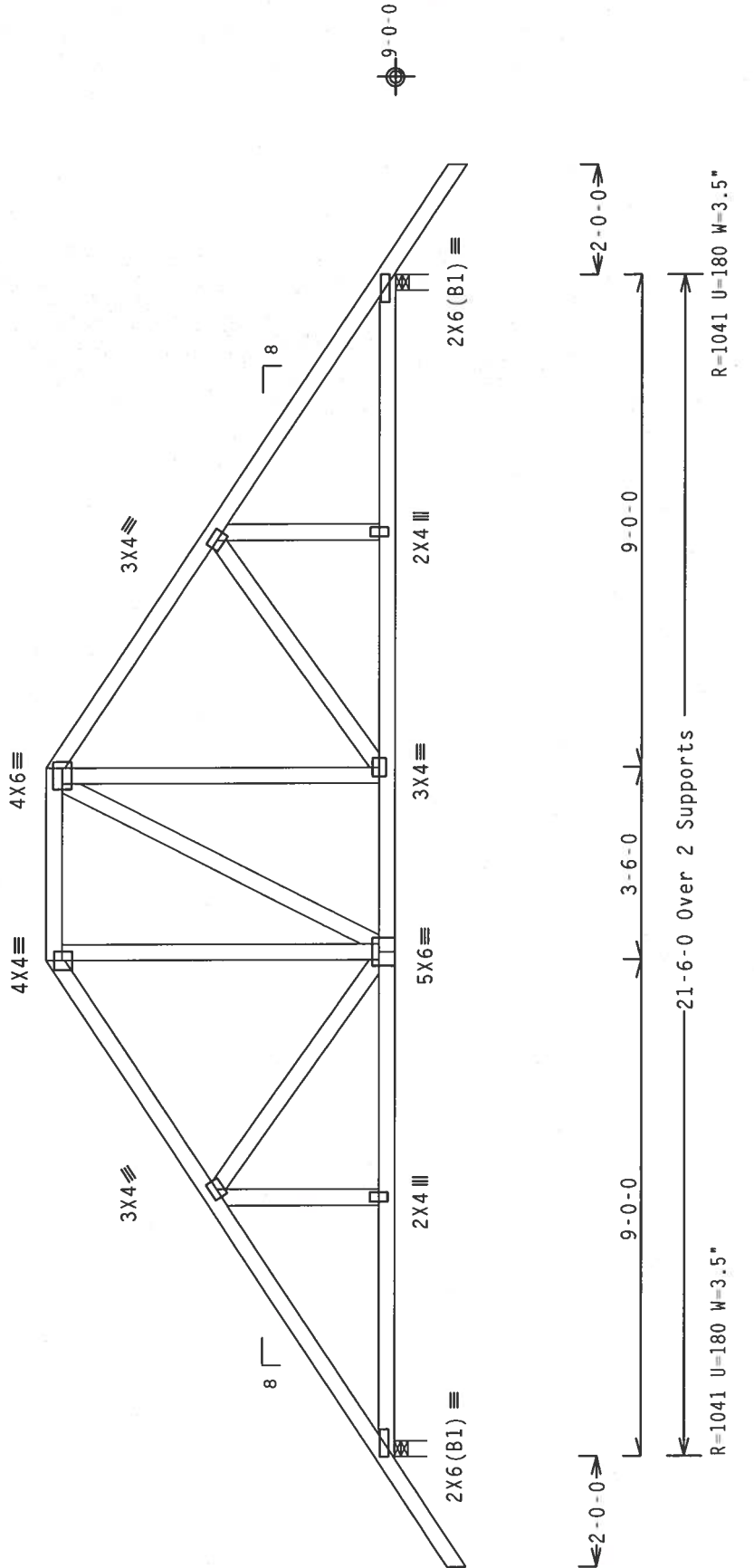
Wind reactions based on MWFRS pressures.

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

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

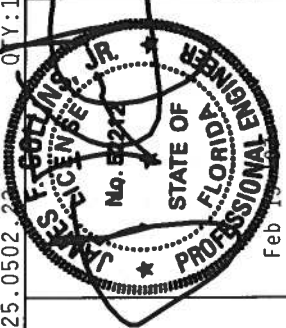
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

The overall height of this truss excluding overhang is 6-4-7.



Design Crit: TPI-2002 (STD)/FBC

PLT TYP. Wave	QTY:1	FL/-5/-/-R/-	Scale = .3125"/Ft.
TC LL	20.0 PSF	REF	R215 -- 90239
TC DL	10.0 PSF	DATE	02/13/07
BC DL	10.0 PSF	DRW	HCUSR215 07044037
BC LL	0.0 PSF	HC-ENG	JK/WHK *
TOT.LD.	40.0 PSF	SEQN-	158255
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1T4U215_Z01



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, BY ASPPA) AND TPI. ITW BCG CONTRACTOR PLATES ARE MADE OF 20/187166 (A36) STEEL GRADE 40/60 (M. K.H.S.S) GALV. STEEL APPL. 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.

**ALPINE**

**ITW Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

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

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

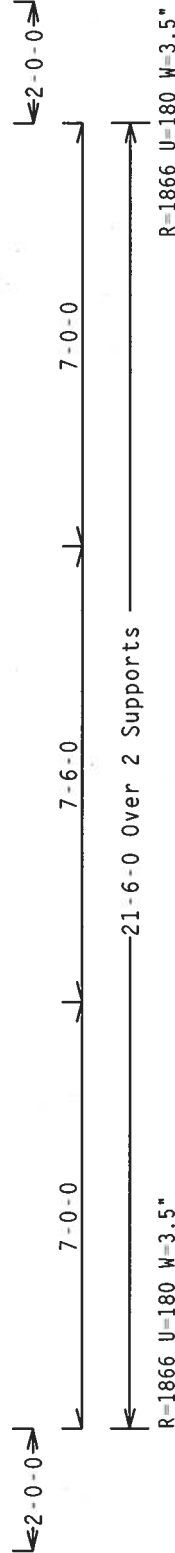
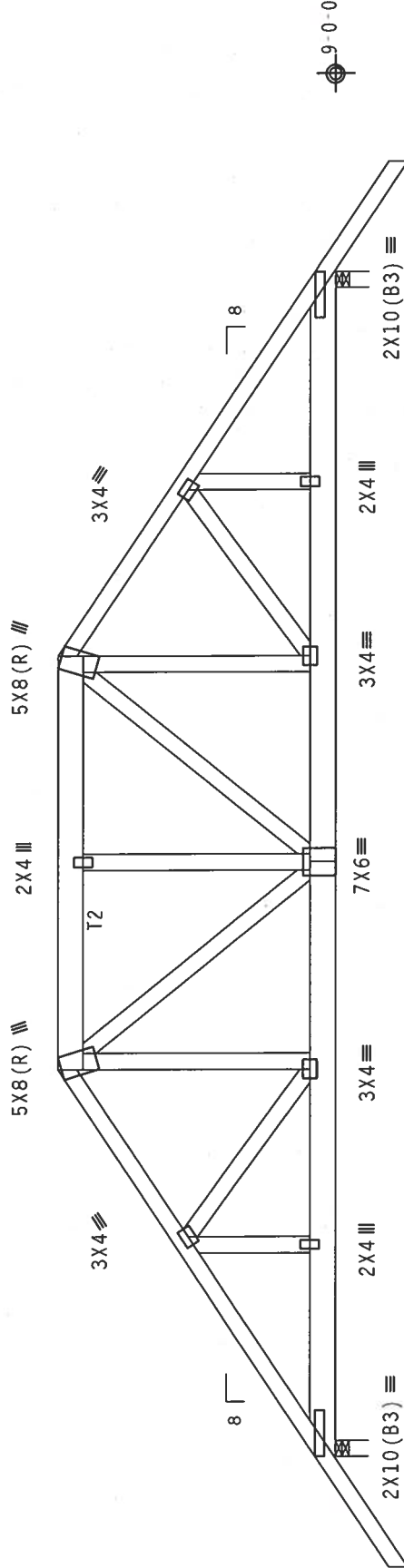
Wind reactions based on MWFRS pressures.

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

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

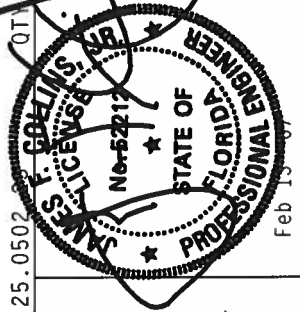
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 5-0-7.



Design Crit: TPI-2002 (STD) / FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0502

TC LL	20.0 PSF	REF R215-- 90240
BC DL	10.0 PSF	DATE 02/13/07
BC DL	10.0 PSF	DRW HCUSR215 07044033
BC LL	0.0 PSF	HC-ENG JK/WHK
TOT.LD.	40.0 PSF	SEQN- 158251
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1T4U215_Z01



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (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.

**\*\*IMPORTANT\*\*** URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. STEEL TRUSS PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWING 1004-2. ANY INSPECTION OF PLATES, FOLLOWED BY (1) SHALL BE PER ANEX A3 OF TPI-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.

ALPINE

**TW Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

PLT TYP. Wave

Scale = .3125" / Ft.

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

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

Wind reactions based on MWFRS pressures.

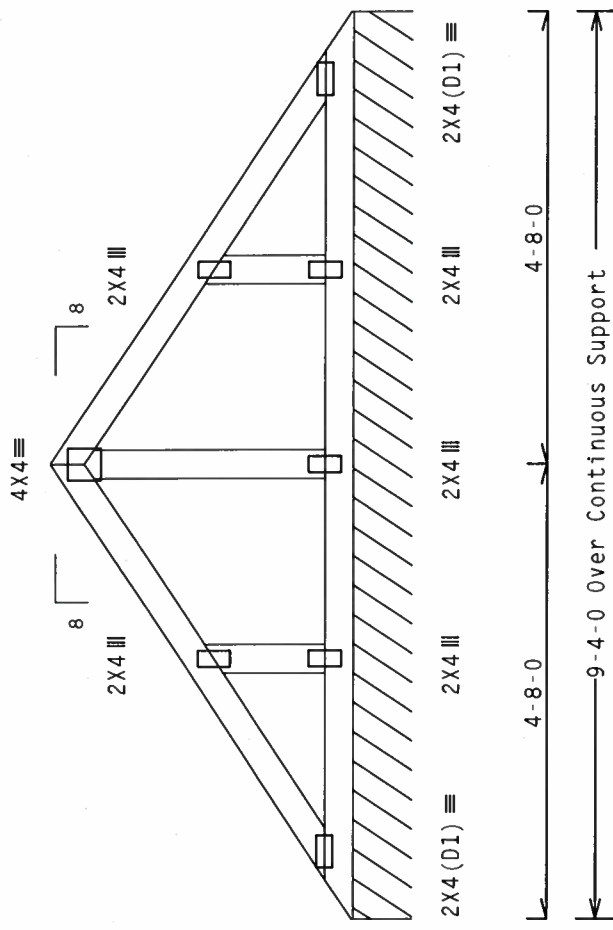
See DWGS A11015EE1106 & GBLLETIN1106 for more requirements.

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

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

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

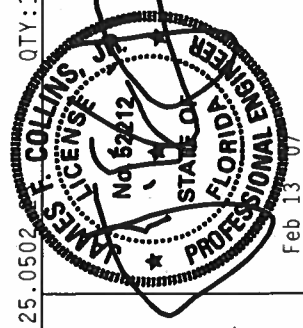
The overall height of this truss excluding overhang is 3-1-9.



R-84 PLF U-69 PLF W-9-4-0

Design Crit: TPI-2002 (STD) /FBC

PLT TYP. Wave	QTY: 1	FL / - / 5 / - / - / R / -	Scale = .5" / Ft.
	TC LL	20.0 PSF	REF R215 - 90241
	TC DL	10.0 PSF	DATE 02/13/07
	BC DL	10.0 PSF	DRW HCUSR215 07044040
	BC LL	0.0 PSF	HC-ENG JK /WHK
	TOT. LD.	40.0 PSF	SEQN- 158227
	DUR. FAC.	1.25	FROM CDM
	SPACING	24.0"	JREF- 1T4U215_Z01



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGNER PROVIDES WITH THIS DESIGN, ALL NECESSARY CONNECTIONS AND BRACING DETAILS. ALL STEEL TRUSS PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, LOCATED PER DRAWINGS A00-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-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 ANS1/TPI 1 SEC. 2.

**TW Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL Certificate of Authorization # 5671

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

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

Wind reactions based on MWFRS pressures.

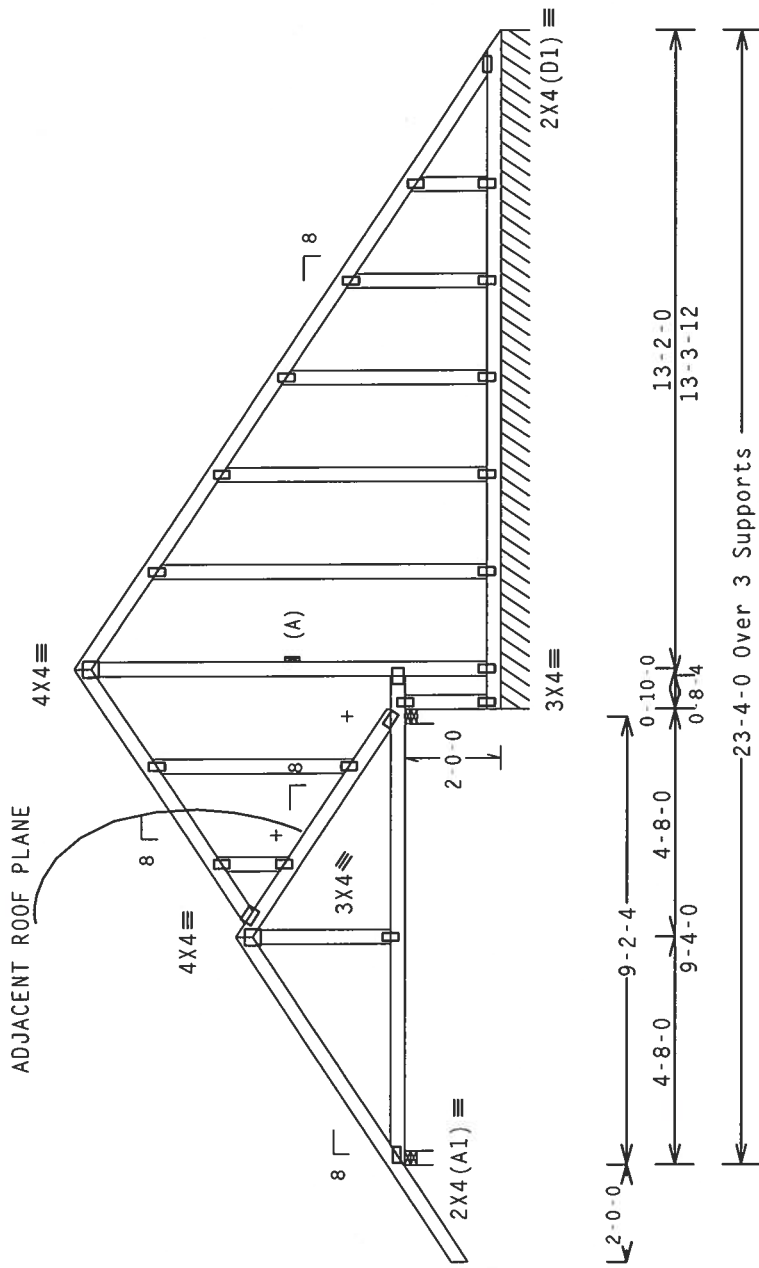
(A) Continuous lateral bracing equally spaced on member.

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

The overall height of this truss excluding overhang is 6'-9"-9."

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

+ MEMBER TO BE Laterally BRACED FOR HORIZONTAL WIND LOADS. BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS. IN ADDITION, PLYWOOD MUST BE PROPERLY ATTACHED TO THIS MEMBER.



R-533 U-180 W-3.5"

R-450 U-180 W-3.5"

R-80 PLF U-13 PLF W-14-0-0

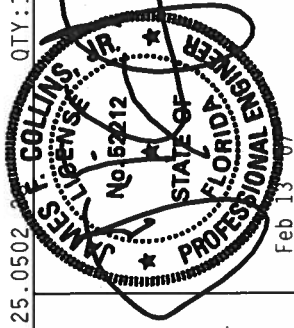
Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002 (STD) / FBC

Cg/RT=1.00(1.25)/10(0) 7-25-0502

QTY: 1 FL / - / 5 / - / - / R / - Scale = .25" / Ft.

TC LL	20.0 PSF	REF	R215-- 90242
TC DL	10.0 PSF	DATE	02/13/07
BC DL	10.0 PSF	DRW	HCUSR215 07044018
BC LL	0.0 PSF	HC-ENG	JK / WHK
TOT.LD.	40.0 PSF	SEQN-	158369
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1T4U215_Z01



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WIGA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 2018/716GA (W/252/K) ASTM A563 GRADE 40760 (W/ K/H/SS) GALV. STEEL. APPLY 2x4 TO ALL TOP AND BOTTOM CHORDS. UNLESS OTHERWISE SPECIFIED, ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE TPI 2002 SPEC. ANY INSPECTION OF PLATES, FOLLOWED BY 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 ANSII/TPI 1 SEC. 2.

**ALPINE**

**TW Building Components Group, Inc.**  
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 FL Certificate of Authorization # 567

Feb 13 2007

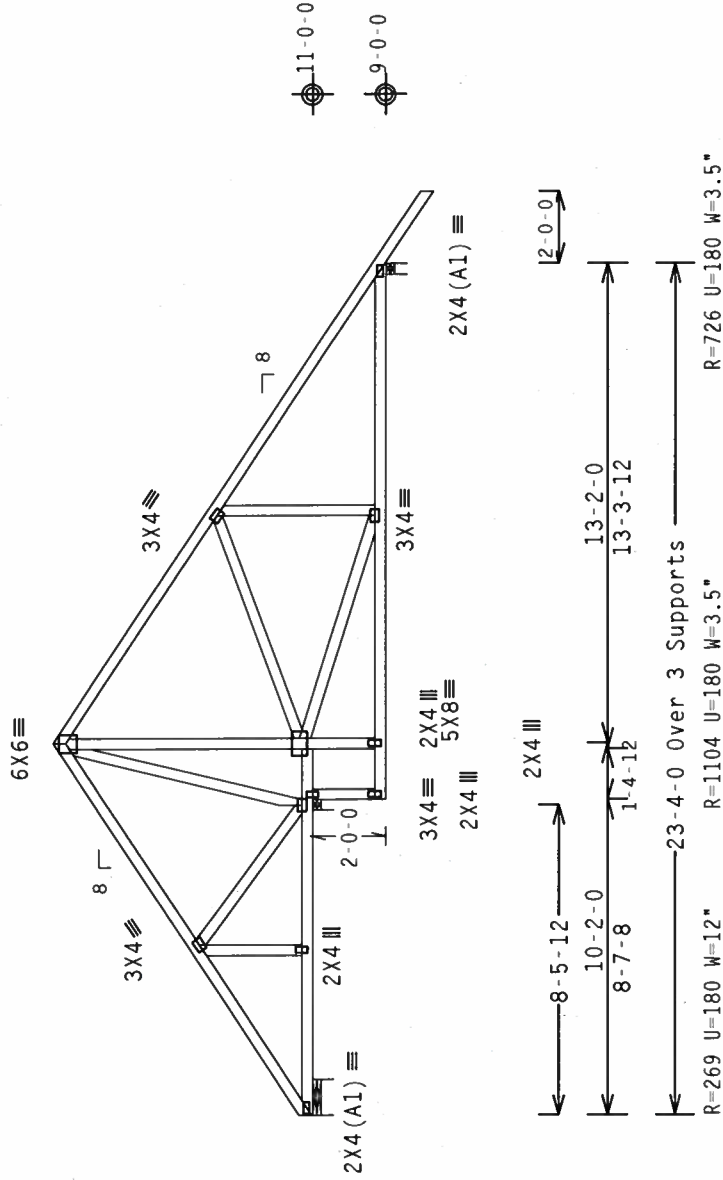
Top chord 2x4 SP #2 N  
 Bot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

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.

Wind reactions based on MWFRS pressures.

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

The overall height of this truss excluding overhang is 7-1-13.



Design Crit: TPI-2002 (STD) / FBC

Cq/RT=1.00(1.25)/10(0)

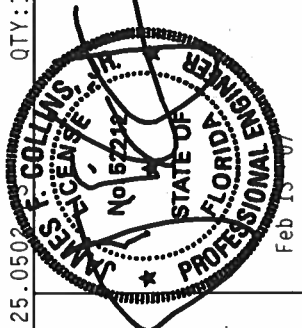
7.25.0502

Scale = .1875" / Ft.

QTY: 1

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

TC LL	20.0 PSF	REF	R215-- 90243
TC DL	10.0 PSF	DATE	02/13/07
BC DL	10.0 PSF	DRW	HCUSR215 07044019
BC LL	0.0 PSF	HC-ENG	JK/WHK
TOT.LD.	40.0 PSF	SEQN-	158233
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1T4U215_Z01



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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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**ALPINE**

TW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

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

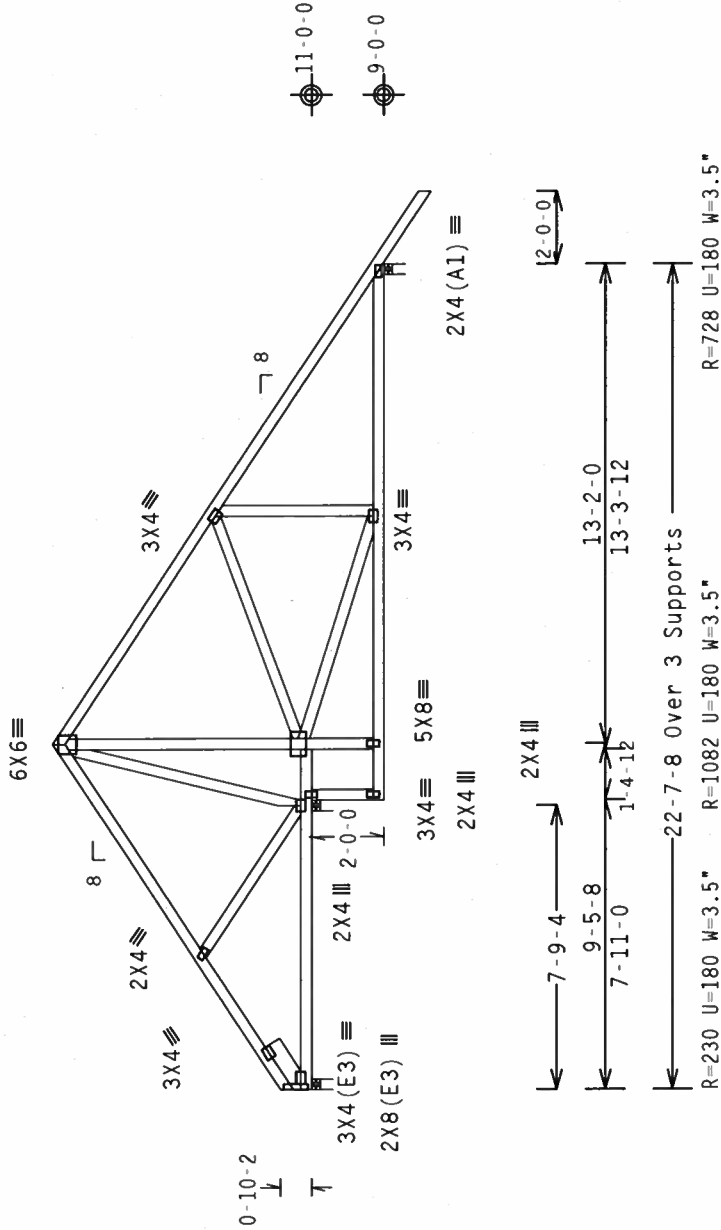
:Lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.500'

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

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

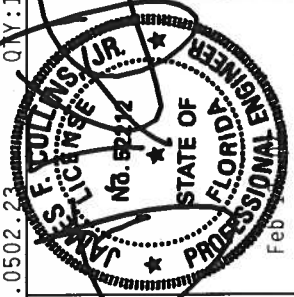
Wind reactions based on MMFRS pressures.

The overall height of this truss excluding overhang is 7-1-13.



Design Crit: TPI-2002 (STD) /FBC  
 Cq/RT=1.00(1.25)/10(0) 7-25.0502.22

Scale = .1875"/Ft.	QTY:1	FL/-/5/-/-/R/-
REF R215-- 90244	SC LL	20.0 PSF
DATE 02/13/07	TC DL	10.0 PSF
DRW HCUSR215 07044020	BC DL	10.0 PSF
HC-ENG JK/WHK	BC LL	0.0 PSF
SEQN- 158236	TOT.LD.	40.0 PSF
FROM CDM	DUR.FAC.	1.25
JREF- IT4U215_Z01	SPACING	24.0"



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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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ALPINE

**TW Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL Certificate of Authorization # 5671

Top chord 2x4 SP #2 N  
 3rd chord 2x4 SP #2 N :B2 2x6 SP #2 N:  
 Webs 2x4 SP #2 N  
 :lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.500'

**SPECIAL LOADS**

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
 TC - From 64 PLF at 9.46  
 TC - From 64 PLF at 9.46 to 64 PLF at 24.63  
 BC - From 20 PLF at 0.00 to 20 PLF at 7.92  
 BC - From 20 PLF at 7.92 to 20 PLF at 22.63  
 BC - From 5 PLF at 22.63 to 5 PLF at 24.63  
 PLB- 1446 LB Conc. Load at (9.56,9.04), (11.56,9.04), (13.56,9.04)  
 PLB- 3025 LB Conc. Load at (15.50,9.04)

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

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

**2 COMPLETE TRUSSES REQUIRED**

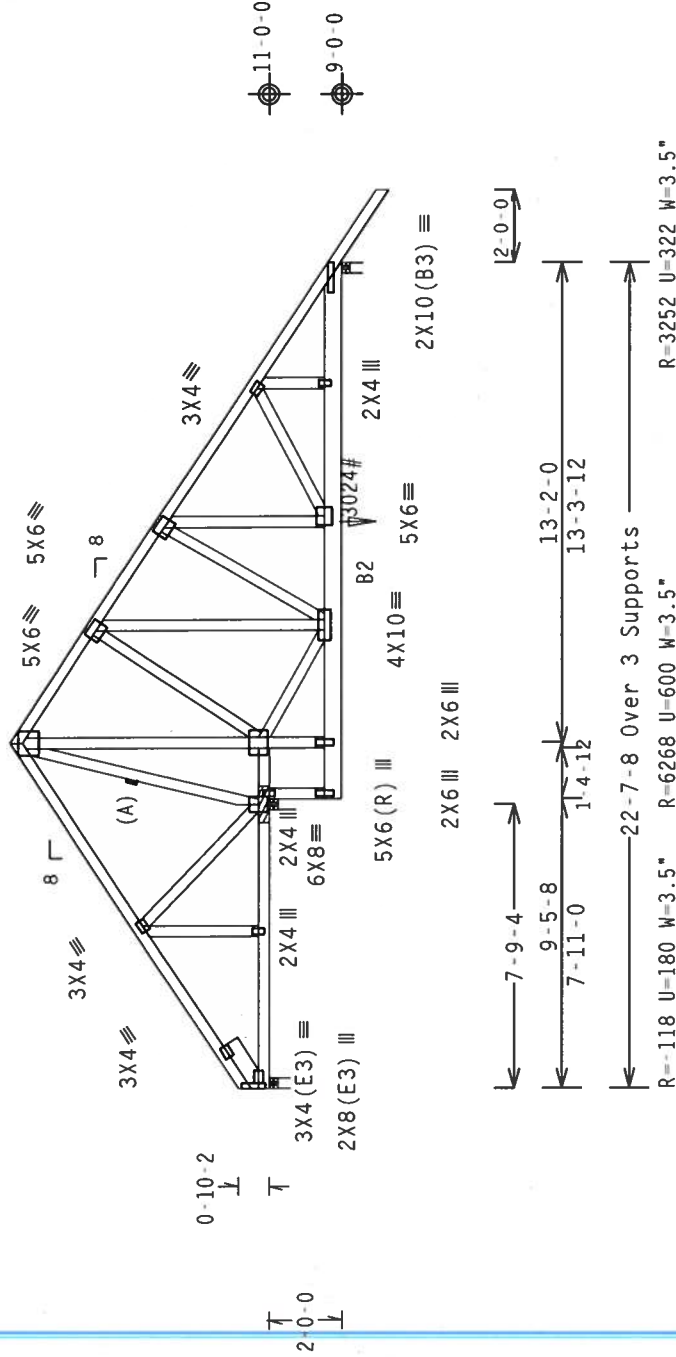
Nailing Schedule: (0.131"x3" Gun\_nails)  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @ 4.75" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

Bearing blocks: Nail type: 0.131"x3" Gun\_nails  
 BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE  
 2 7.625' 1 12" 6  
 Bearing block to be same size and species as bottom chord. Refer to drawing CMR6BLK1103 for additional information.

Wind reactions based on MMFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

The overall height of this truss excluding overhang is 7'-1-13".



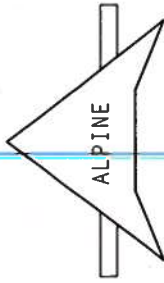
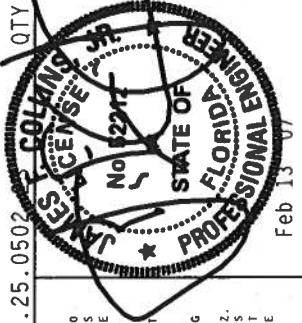
Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.25.0502 FL/-5/-/R/- Scale = .1875"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MTCA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. 1TH BCG NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MTCA (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.

TC LL	20.0 PSF	FL / -5 / - / R / -	QTY: 1
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	R215-- 90245		
DATE	02/13/07		
DRW	HCUSR215 07044021		
HC-ENG	JK/WHK		
SEQN-	158353		
FROM	CDM		
JREF-	11T4U215_Z01		



TW Building Components Group, Inc.  
 Haines City, FL 33844  
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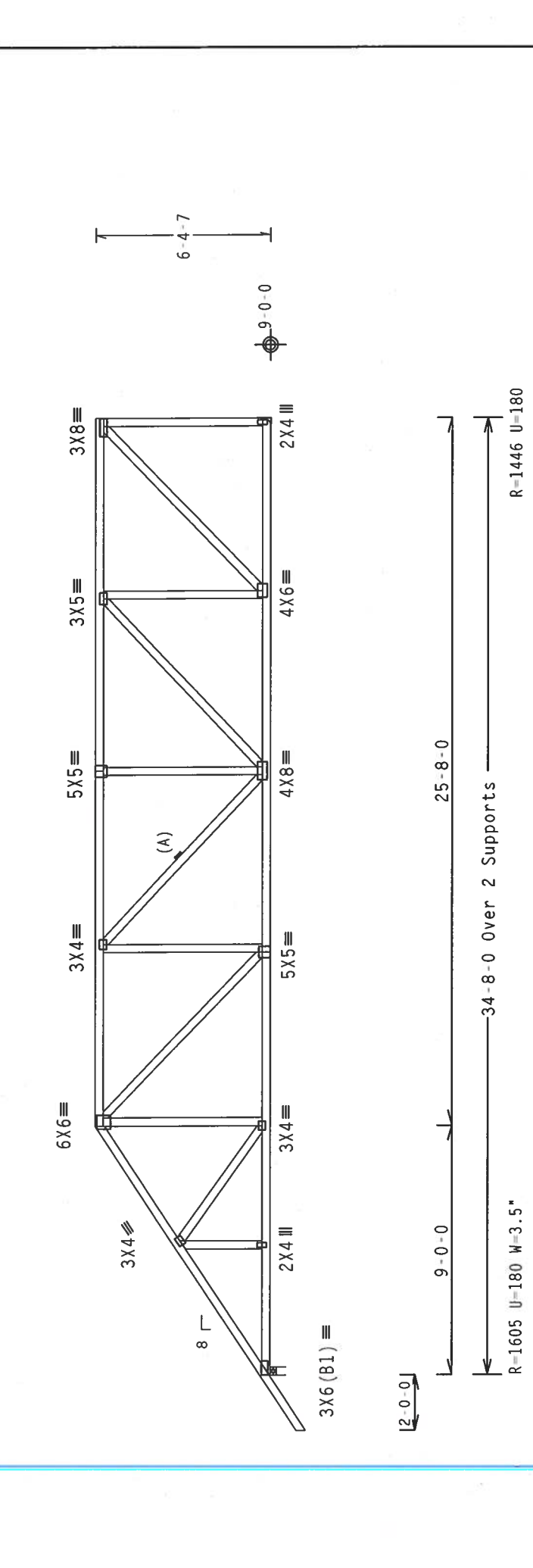


Top chord 2x4 SP #2 N  
 3ot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.  
 (A) Continubus lateral bracing equally spaced on member.  
 Deflection meets L/240 live and L/180 total load.

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

Right end vertical not exposed to wind pressure.  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
 The overall height of this truss excluding overhang is 6-4-7.



PLT TYP. Wave  
 Design Crit: TPI-2002 (STD)/FBC  
 Cg/RT=1.00(1.25)/10(0) 7.25.0500 QTY:1 FL/-5/-/-R/- Scale =.1875"/Ft.

REF R215--	90247
DATE	02/13/07
DRW	HCUSR215 07044001
HC-ENG	RA/WHK
SEQN-	162590
FROM	CDM
JREF-	1T4U215_Z01
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"



**ALPINE**  
 NW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

**\*\*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 WICA (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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Top chord 2x4 SP #2 N  
 3rd chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

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. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

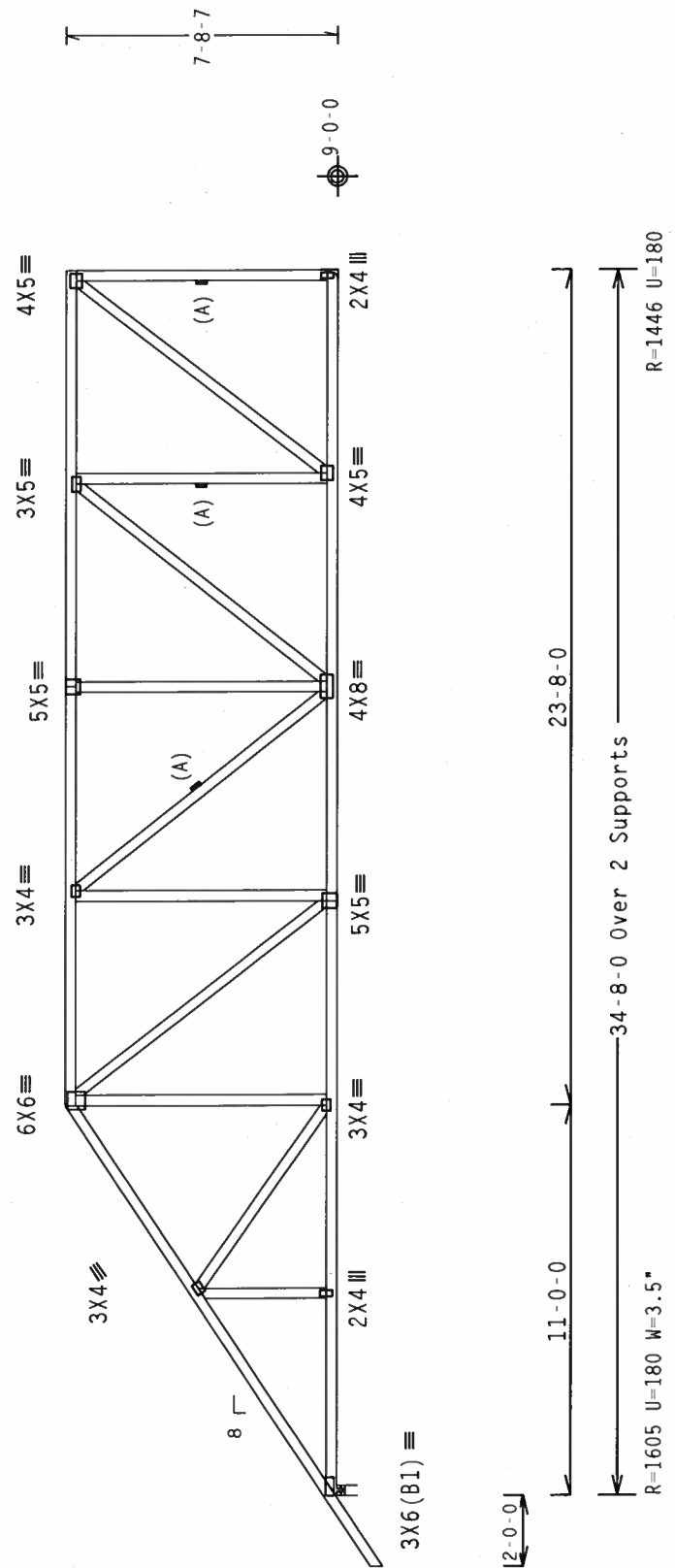
Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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

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

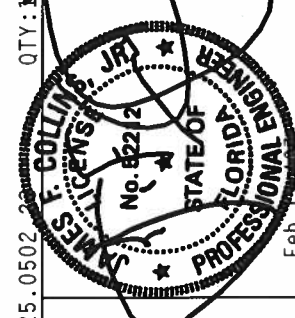
The overall height of this truss excluding overhang is 7-8-7.



PLT TYP. Wave	QTY: 1	FL / - / 5 / - / - / R / -	Scale = .1875" / Ft.
REF R215 -- 90248	20.0 PSF	TC LL	
DATE 02/13/07	10.0 PSF	TC DL	
DRW HCUSR215 07044002	10.0 PSF	BC DL	
HC-ENG RA/MHK	0.0 PSF	BT LL	
SEQN- 162596	40.0 PSF	TOT.LD.	
FROM CDM	1.25	OUR.FAC.	
JREF- 1T4U215_Z01	24.0"	SPACING	

Design Crit: TPI-2002 (STD)/FBC

Cg/RT=1.00(1.25)/10(0) 7.25.0502.2



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE DESIGN OF THE CONNECTIONS PER ANCHORS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-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 ANST/TPI 1 SEC. 2.

ALPINE

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 Haines City, FL 33844  
 FL Certificate of Authorization # 567

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

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

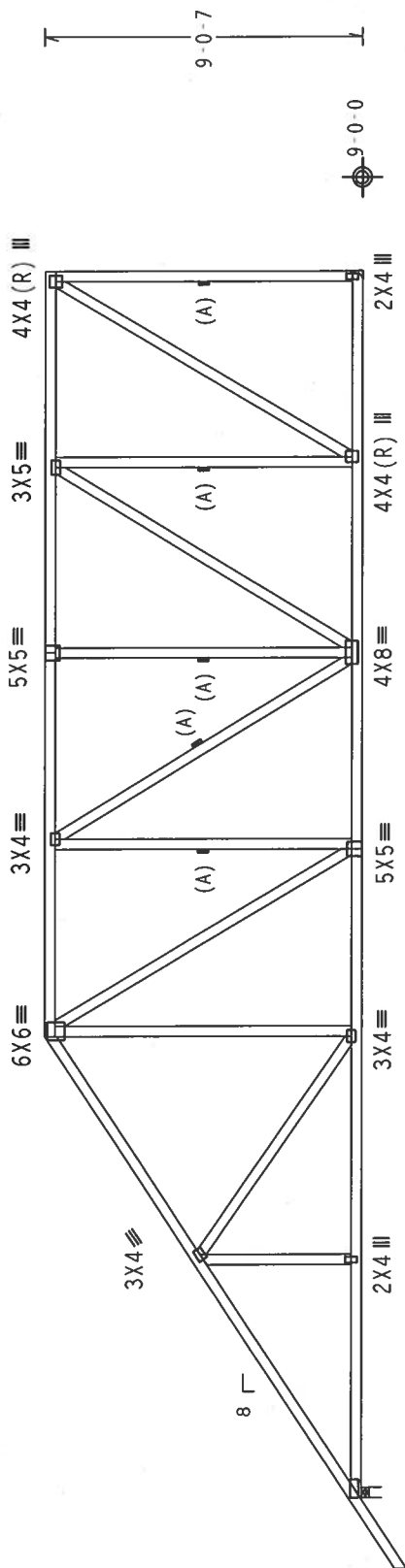
Reflection meets L/240 live and L/180 total load.

Right end vertical not exposed to wind pressure.

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

The overall height of this truss excluding overhang is 9-0-7.

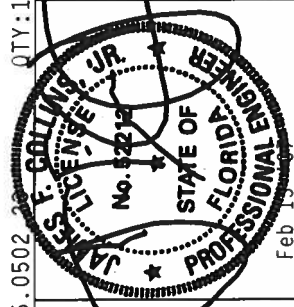
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{Cpi}(+/-)=0.18$



12-0-0  
 13-0-0  
 21-8-0  
 34-8-0 Over 2 Supports  
 R=1605 U-180 W-3.5  
 R-1446 U-180

PLT TYP. Wave	QTY:1	FL/-/5/-/-/R/-	Scale = .1875"/Ft.
REF R215 -- 90249	TC LL	20.0 PSF	
DATE 02/13/07	TC DL	10.0 PSF	
DRW HCUR215 07044003	BC DL	10.0 PSF	
HC-ENG RA/WHK	BC LL	0.0 PSF	
SEQN- 162601	TOT.LD.	40.0 PSF	
FROM CDM	DUR.FAC.	1.25	
JREF- 1T4U215_Z01	SPACING	24.0"	

Design Crit: TPI-2002(STD)/FBC



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ALPINE

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 Haines City, FL 33844  
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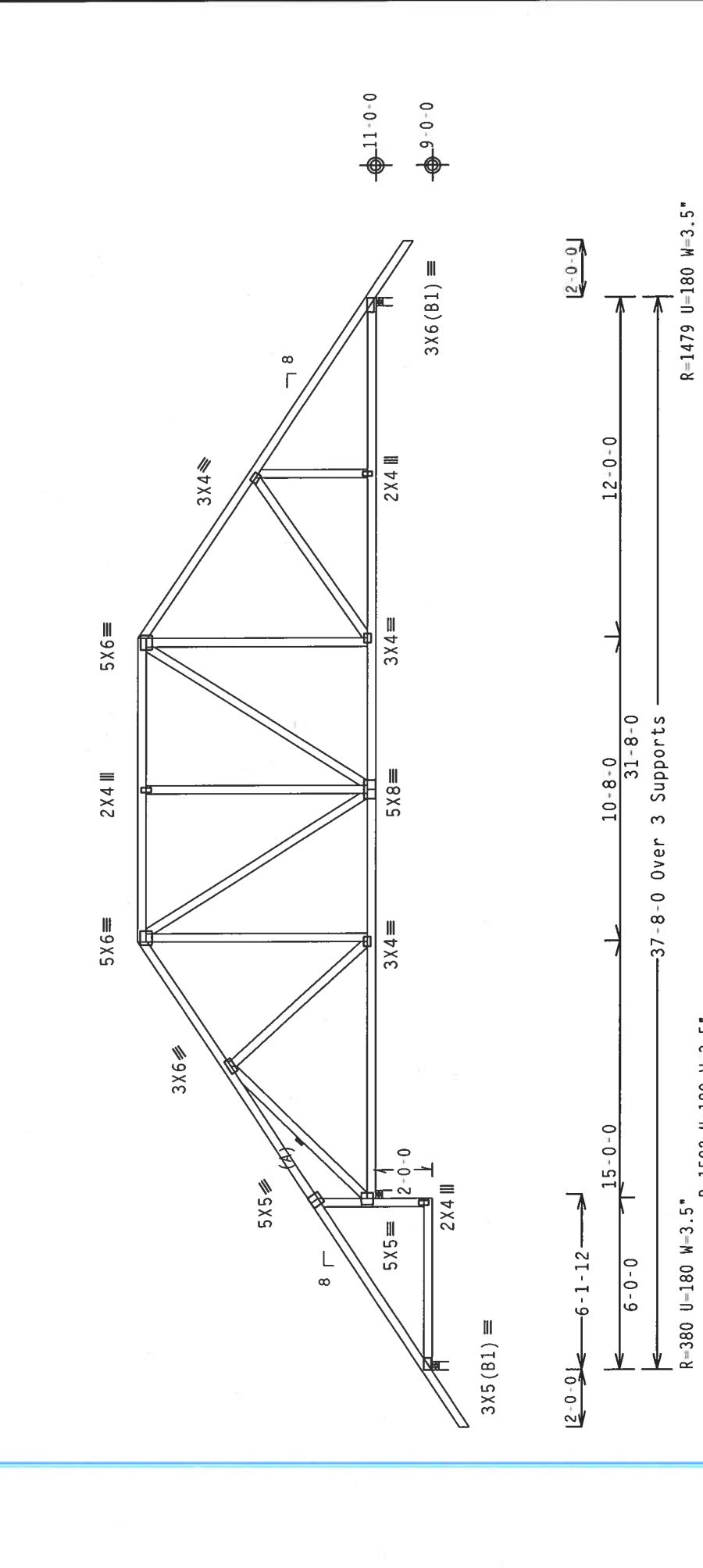




Top chord 2x4 SP #2 N  
 Bot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

(A) Continuous lateral bracing equally spaced on member.  
 Deflection meets L/240 live and L/180 total load.  
 The overall height of this truss excluding overhang is 10'-4"-7".



PLT TYP. Wave  
 Design Crit: TPI-2002 (STD) /FBC  
 Cg/RT=1.00(1.25)/10(0) 7.25.0500 QTY:3 FL/-/5/-/-/R/- Scale = .1875"/Ft.  
 REF R215 -- 90252  
 DATE 02/13/07  
 DRW HCUSR215 07044035  
 HC-ENG JK/WHK  
 SEQN- 158349  
 FROM CDM  
 JREF- 1T4U215\_201

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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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ALPINE  
 TPI Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567



op chord 2x4 SP #2 N  
 bot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

A) Continuous lateral bracing equally spaced on member.

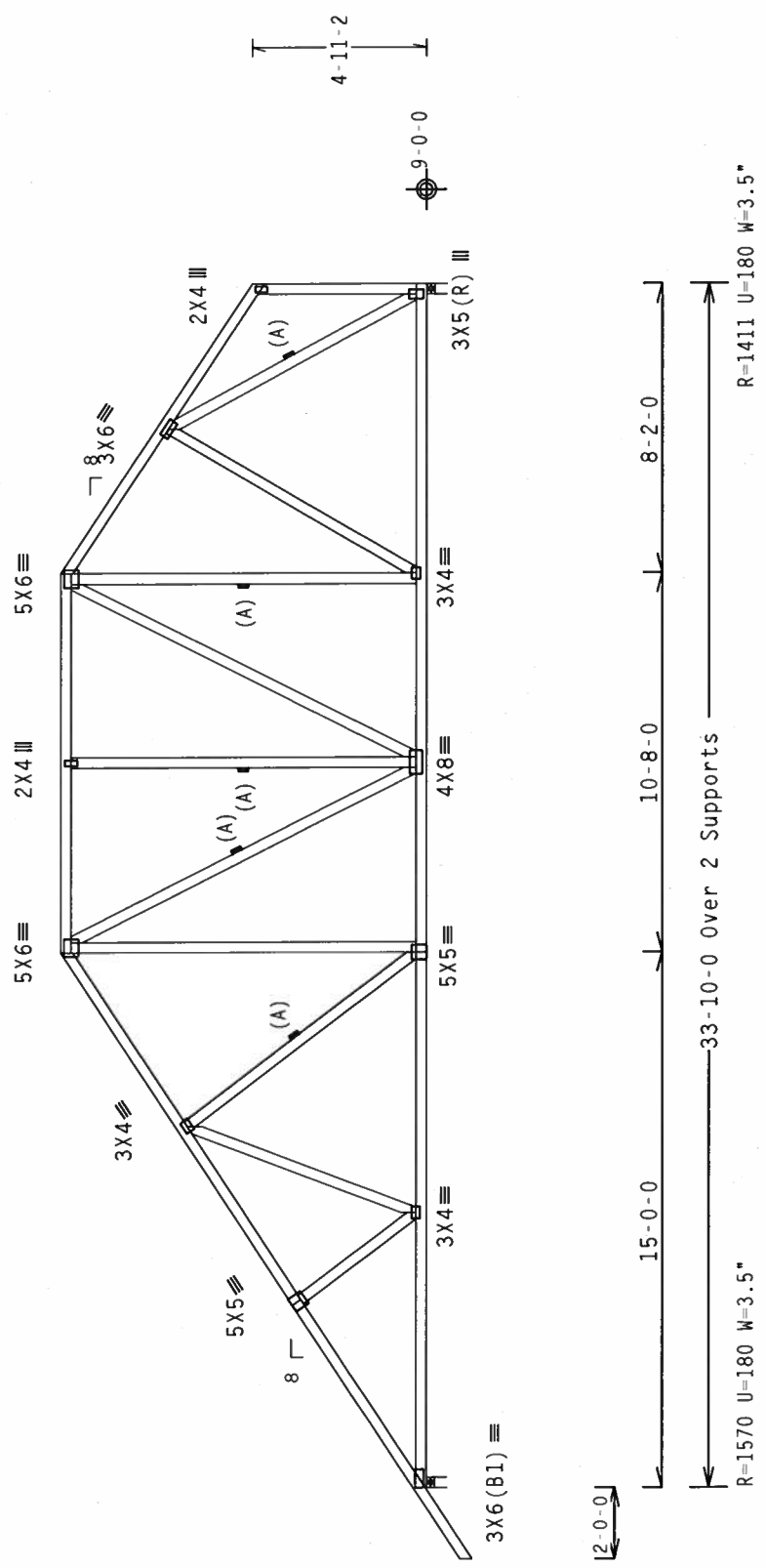
Reflection meets L/240 live and L/180 total load.

Right end vertical not exposed to wind pressure.

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

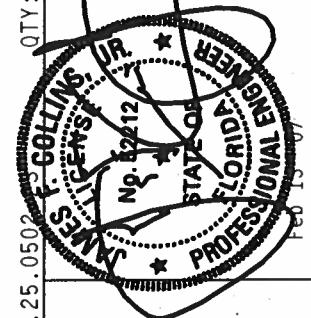
The overall height of this truss excluding overhang is 10-4-7.

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



Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0502 QTY:4 FL/-/5/-/-/0/-/ Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R215 -- 90254
TC DL	10.0 PSF	DATE	02/13/07
BC DL	10.0 PSF	DRW	HCUSR215 07044027
BC LL	0.0 PSF	HC-ENG	JK/WHK *
TOT.LD.	40.0 PSF	SEQN-	158284
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1T4U215_Z01



**ALPINE**

**W Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

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op chord 2x4 SP #2 N  
 not chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

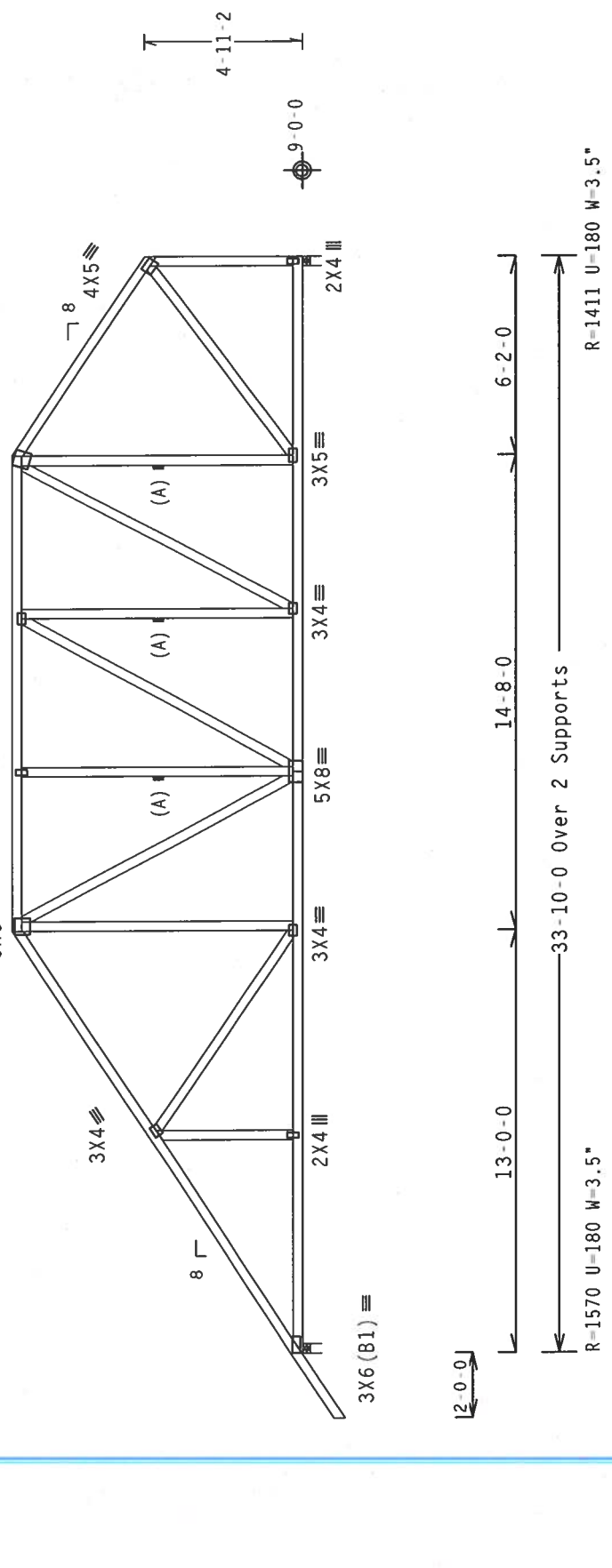
(A) Continuous lateral bracing equally spaced on member.

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

Right end vertical not exposed to wind pressure.

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

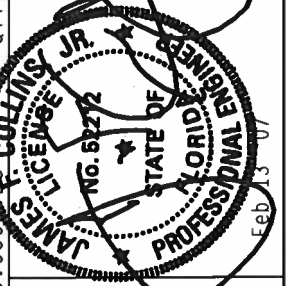
The overall height of this truss excluding overhang is 9-0-7.



PLT TYP. Wave

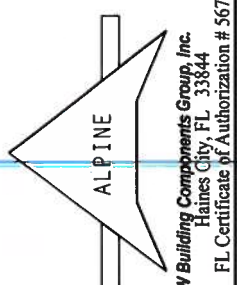
Design Crit: TPI-2002 (STD)/FBC

QTY:1	FL/-5/-/-/R/-	Scale = .1875"/Ft.
TC LL	20.0 PSF	REF R215-- 90255
TC DL	10.0 PSF	DATE 02/13/07
BC DL	10.0 PSF	DRW HCUSR215 07044026
BC LL	0.0 PSF	HC-ENG JK/MHK *
TOT.LD.	40.0 PSF	SEQN- 158280
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1T4U215_201



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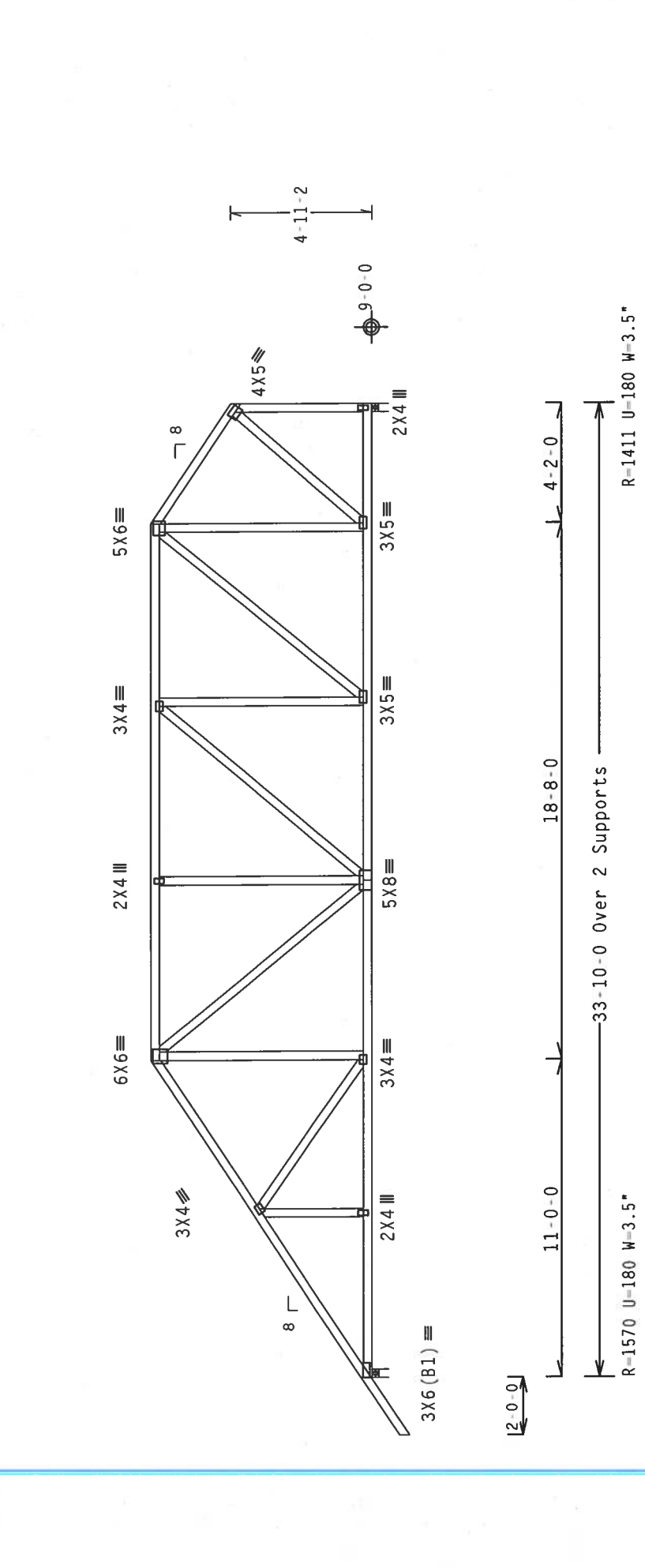


op chord 2x4 SP #2 N  
 not chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.  
 In lieu of structural panels use purlins to brace all flat TC @ 4' OC.

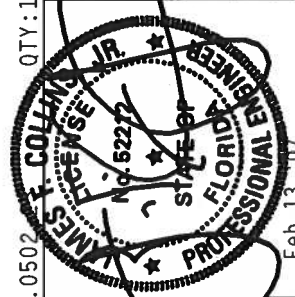
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.  
 Deflection meets L/240 live and L/180 total load.  
 The overall height of this truss excluding overhang is 7-8-7.



Design Crit: TPI-2002 (STD) / FBC  
 Cg/RT=1.00(1.25)/10(0) 7.25.0502 QTY:1 FL/-/5/-/-/R/- Scale = .1875"/Ft.

PLT TYP. Wave	TC LL	20.0 PSF	REF	R215 -- 90256
	TC DL	10.0 PSF	DATE	02/13/07
	BC DL	10.0 PSF	DRW	HCUSR215 07044025
	BC LL	0.0 PSF	HC-ENG	JK/WHK *
	TOT.LD.	40.0 PSF	SEQN-	158276
	DUR.FAC.	1.25	FROM	CDM
	SPACING	24.0"	JREF-	1T4U215_201



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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 20170/1600 (4.14/55/7K) ASTM A653 GRADE 50/60 (4.14/1-55) GALV. STEEL. ITW BCG BRACING AND GUSSET PLATES SHALL BE PER SPEC. UNLESS OTHERWISE INDICATED. ANY INSPECTION OF PLATES FOLLOWED BY THE USER SHALL BE PER SPEC. UNLESS OTHERWISE INDICATED. 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.

ALPINE

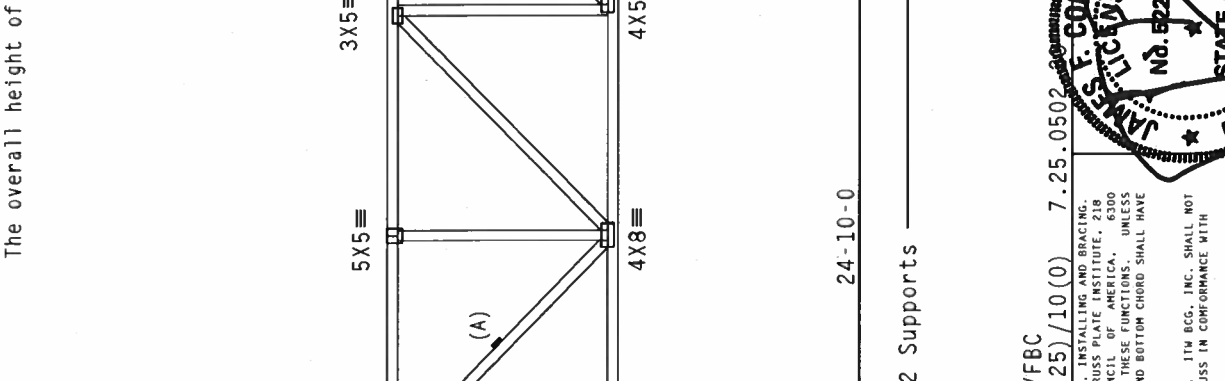
**W Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

op chord 2x4 SP #2 N  
 ot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.  
 A) Continuous lateral bracing equally spaced on member.  
 reflection meets L/240 live and L/180 total load.

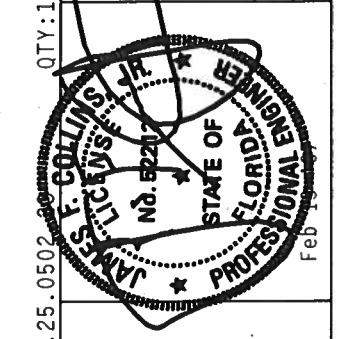
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Right end vertical not exposed to wind pressure.  
 In lieu of structural panels use purlins to brace all flat TC @ 24" OC.  
 The overall height of this truss excluding overhang is 6-4-7.



Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0502 QTY:1 FL/-/5/-/-/R/- Scale = .1875"/Ft.

REF	R215--	90257
DATE	02/13/07	
DRW	HCUSR215	07044023
HC-ENG	JK/WHK	*
SEQN-	158272	
FROM	CDM	
JREF-	1T4U215_Z01	



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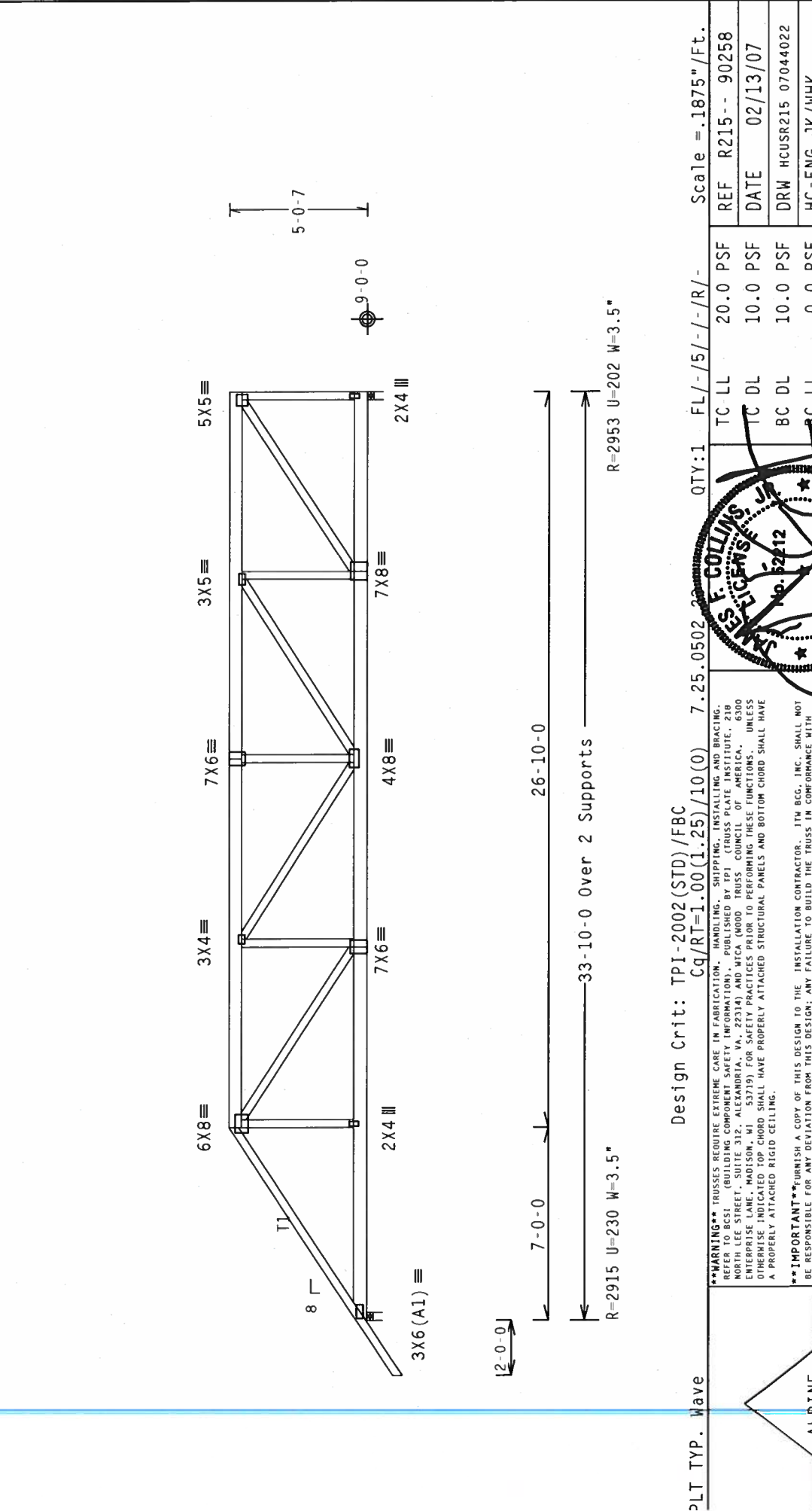
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ALPINE  
 W Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

2 COMPLETE TRUSSES REQUIRED

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

Right end vertical not exposed to wind pressure.  
 #1 hip supports 7'-0" jacks with no webs.  
 The overall height of this truss excluding overhang is 5'-0".



PLT TYP. Wave	QTY:1	FL/-/5/-/-/R/-	Scale = .1875"/Ft.
REF R215 -- 90258	TC LL	20.0 PSF	
DATE 02/13/07	TC DL	10.0 PSF	
DRW HCUSR215 07044022	BC DL	10.0 PSF	
HC-ENG JK/WHK	BC LL	0.0 PSF	
SEQN- 158268	TOT.LD.	40.0 PSF	
FROM CDM	DUR.FAC.	1.25	
JREF- 1T4U215_Z01	SPACING	24.0"	

ALPINE

W Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 5671

Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0502.22

**\*\*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 WICA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, SECTION PER DRAWING 160A-2. ANY INSPECTION OF PLATES FOR LONG. BY SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPONENT FABRICATOR. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS1/TPI 1 SEC. 2.

Top chord 2x4 SP #2 N  
 3ot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactipns based on MWFRS pressures.  
 See DWGS A11030EE1106 & 6BLLETIIN1106 for more requirements.  
 Deflection meets L/240 live and L/180 total load.

110 mph wind, 19.32 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

The overall height of this truss excluding overhang is 1-4-4.



2X4 (D1) = 2X4 III 2X4 (D1) =

2-0-0

4-0-0 Over Continuous Support

R-83 PLF U-47 PLF W-4-0-0

Design Crit: TPI-2002 (STD)/FBC  
 Cg/RT=1.00(1.25)/10(0) 7.25.0502.23 QTY:1 FL/-/5/-/-/R/- Scale =.5"/Ft.

REF	R215--	90259
DATE	02/13/07	
DRW	HCUSR215	07044014
HC-ENG	JK/WHK	
SEQN-	158212	
FROM	CDM	
JREF-	1T4U215_Z01	

**ALPINE**

**TW Building Components Group, Inc.**  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

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

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (N.H/SS/K) ASTM A653 GRADE 40/660 (M, K7H-SS) GALV. STEEL. APPL. TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENTS 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.

Top chord 2x4 SP #2 N  
 3ot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.  
 The overall height of this truss excluding overhang is 1-8-7.

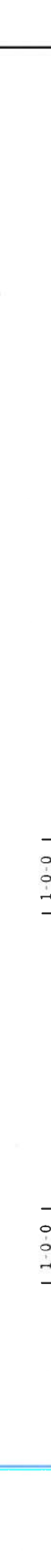
110 mph wind, 19.20 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
 Deflection meets L/240 live and L/180 total load.



Design Crit: TPI-2002 (STD)/FBC  
 Cg/RT=1.00(1.25)/10(0) 7.25.0502 QTY:3 FL/-/5/-/-/R/- Scale =.5"/Ft.

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"

PLT TYP. Wave



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ALPINE

ITW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

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.

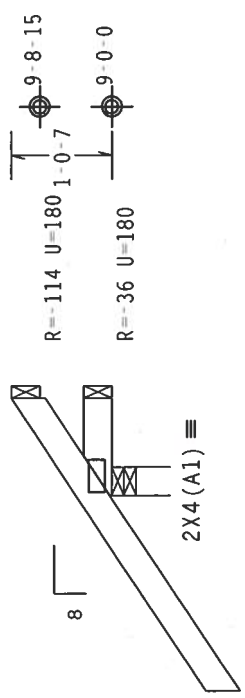
Deflection meets L/240 live and L/180 total load.

provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
 provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

The overall height of this truss excluding overhang is 1-0-7.

Wind reactions based on MWFRS pressures.

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



← 2-0-0 →  
 1-0-0 over 3 Supports  
 R=372 U=180 W=3.5"

Design Crit: TPI-2002 (STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0502.22

TC LL	20.0 PSF	FL/-/5/-/-/R/-	QTY:8	Scale = .5"/Ft.
TC DL	10.0 PSF			REF R215-- 90261
BC DL	10.0 PSF			DATE 02/13/07
BC LL	0.0 PSF			DRW HCUSR215 07044016
TOT.LD.	40.0 PSF			HC-ENG RA/WHK
DUR.FAC.	1.25			SEQN- 158356
SPACING	24.0"			FROM CDM
				JREF- 1T4U215_Z01



**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES BY AFRPA) AND TPI. ITM BCG CONTRACTOR PLATES ARE MADE OF 20/18/16GA (M/K/SS/KA) WITH #63 GRADE 40/60 (M, K/HA/SS) GALV. STEEL APPLICABLE TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 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.

**ALPINE**

**TW Building Components Group, Inc.**  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 567

Top chord 2x4 SP #2 N  
 Bot chord 2x4 SP #2 N  
 Wind reactions based on MWFRS pressures.  
 The overall height of this truss excluding overhang is 2-4-7.  
 Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
 Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

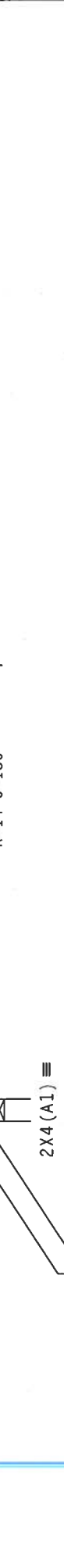
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  
 Deflection meets L/240 live and L/180 total load.



Design Crit: TPI-2002 (STD)/FBC  
 Cg/RT=1.00(1.25)/10(0) 7.25.0502.22 QTY:8  
 Scale = .5" / Ft.

FL / - / 5 / - / - / R / -	Scale = .5" / Ft.
TC LL	20.0 PSF
BC DL	10.0 PSF
TC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

PLT TYP. Wave



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ITW Building Components Group, Inc.  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 567

Top chord 2x4 SP #2 N  
 Bot chord 2x4 SP #2 N  
 Wind reactions based on MWFRS pressures.  
 The overall height of this truss excluding overhang is 3-8-7.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
 Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot 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.  
 Deflection meets L/240 live and L/180 total load.



Design Crit: TPI-2002 (STD)/FBC  
 Cg/RT=1.00(1.25)/10(0) 7.25.0502 QTY:8 FL/-/5/-/-/R/- Scale =.375"/Ft.

PLT TYP. Wave

ALPINE

TW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

0-4-14  
 4-7-2  
 5-0-0 Over 3 Supports  
 R-387 U=180 W=3.5"

8  
 2X4 (A1)

R=124 U=180  
 R=47 U=180

12-4-15  
 3-8-7  
 9-0-0

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 R215 -- 90263  
 DATE 02/13/07  
 DRW HCUSR215 07044042  
 HC-ENG RA/WHK  
 SEQN- 158360  
 FROM CDM  
 JREF- 1T4U215\_Z01

JAMES E. COLLINS, JR.  
 LICENSE NO. 12272  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 Feb 13 07

WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTC (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.  
 IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR AFRPA) AND TPI. ITM BCG CONNECTION PLATES ARE MADE OF 2017/16GA (4.14/557K) ASTM A653 GRADE 50/60 (4.24/55) GALV. STEEL. APPLY PROTECTIVE PAINT TO ALL EXPOSED SURFACES. ALL TRUSS COMPONENTS SHALL BE PROTECTED PER ANS/1 SEC. 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC. 3.1 FOR SEAL OR 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 ANS/1 SEC. 2.



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.

Hipjack supports 7-0-0 setback jacks with no webs.  
The overall height of this truss excluding overhang is 5-0-2.

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.

Hipjack supports 7-0-0 setback jacks with no webs.  
The overall height of this truss excluding overhang is 5-0-2.

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.

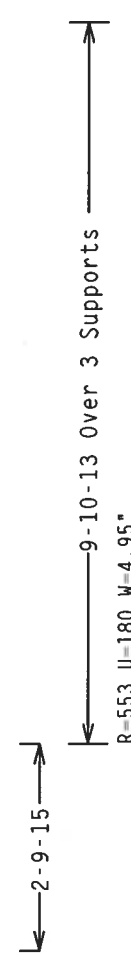
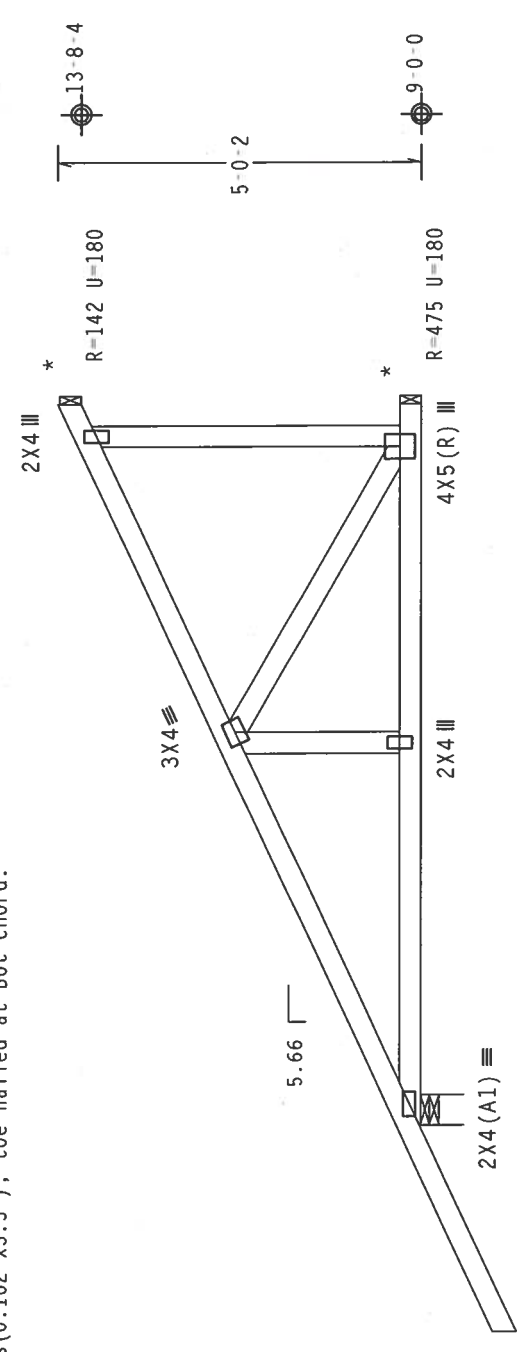
Hipjack supports 7-0-0 setback jacks with no webs.  
The overall height of this truss excluding overhang is 5-0-2.

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.

Hipjack supports 7-0-0 setback jacks with no webs.  
The overall height of this truss excluding overhang is 5-0-2.

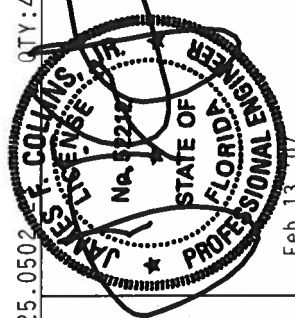
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Hipjack supports 7-0-0 setback jacks with no webs.  
The overall height of this truss excluding overhang is 5-0-2.



Design Crit: TPI-2002 (STD)/FBC

PLT TYP. Wave	QTY: 4	FL / - / 5 / - / - / R / -	Scale = .375" / Ft.
	TC LL	20.0 PSF	REF R215 - - 90265
	TC DL	10.0 PSF	DATE 02/13/07
	BC DL	10.0 PSF	DRW HCUSR215 07044041
	BC LL	0.0 PSF	HC - ENG RA / WHK
	TOT.LD.	40.0 PSF	SEQN- 158242
	DUR.FAC.	1.25	FROM CDM
	SPACING	24.0"	JREF - 1T4U215_Z01



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ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-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.

110 mph wind, 20.04 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

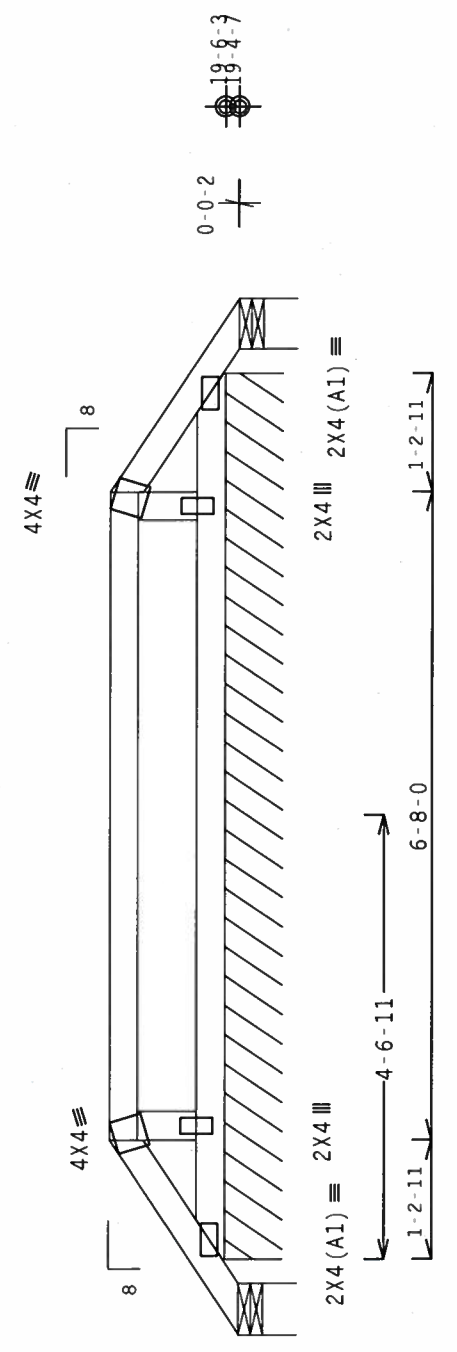
In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.

The overall height of this truss excluding overhang is 1-4-0.

Top chord 2x4 SP #2 N  
 3rd chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.  
 Deflection meets L/240 live and L/180 total load.

REFER TO DRAWING PIGBACK0204 FOR PIGGYBACK DETAILS.  
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED @ 24" O.C.



R=38 U=180 W=6.31"  
 (6.122R=Effective Contact)

PLT TYP. Wave	QTY: 2	FL / - / 5 / - / - / R / -	Scale = .5" / Ft.
REF R215 - -	20.0 PSF	TC LL	90266
DATE	10.0 PSF	TC DL	02/13/07
DRW HCUSR215	2.0 PSF	BC DL	07044028
HC-ENG JK/WHK	0.0 PSF	BC LL	
SEQN-	32.0 PSF	TOT.LD.	158224
FROM	DUR.FAC.		CDM
JREF - 1T4U215_Z01	SPACING		24.0"

Design Crit: TPI-2002 (STD)/FBC  
 Cq/RT=1.00(1.25)/10(0) 7.25.0502

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ALPINE

ITW Building Components Group, Inc.  
 Gaines City, FL 33844

FL Certificate of Authorization # 567

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

Wind reactions based on MWFRS pressures.

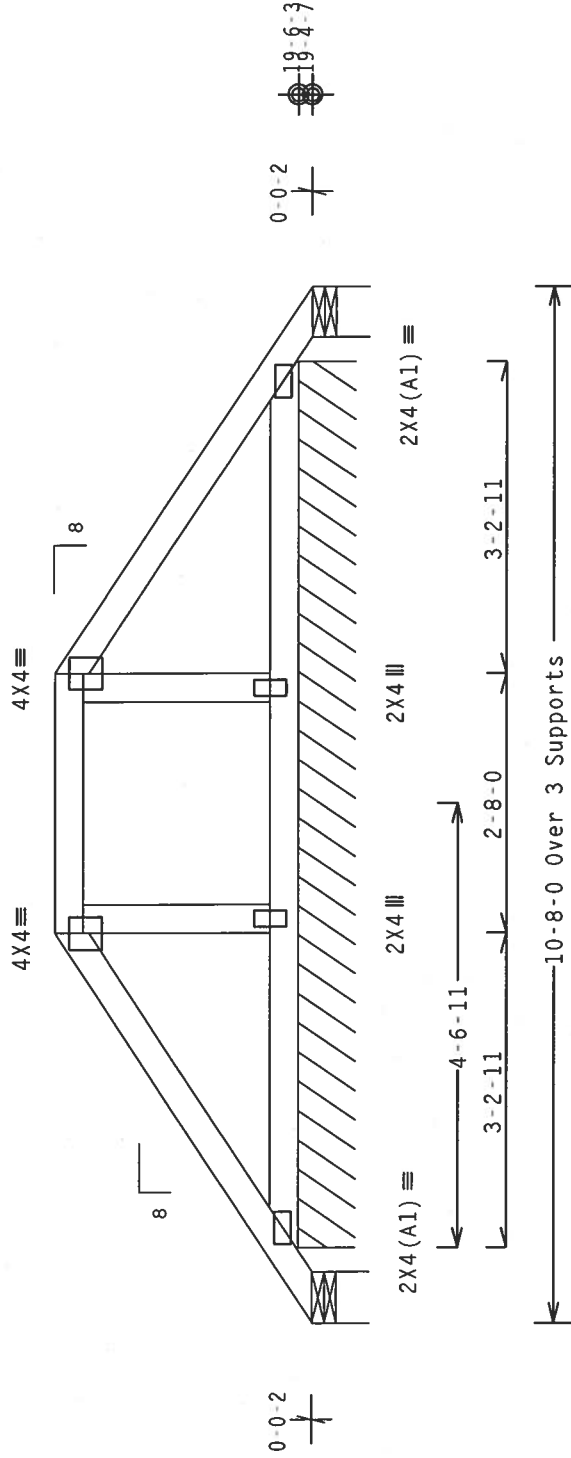
Deflection meets L/240 live and L/180 total load.

REFER TO DRAWING PIGBACK0204 FOR PIGGYBACK DETAILS.  
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE  
 BRACED @ 24" O.C.

110 mph wind, 20.71 ft mean hgt, ASCE 7-02, CLOSED bldg, not  
 located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC  
 DL=5.0 psf, wind BC DL=1.2 psf.

In lieu of structural panels or rigid ceiling use purlins to  
 brace all flat TC @ 24" OC, all BC @ 24" OC.

The overall height of this truss excluding overhang is 2-8-0.



R=26 U=180 W=6.31"  
 (6.122" Effective Contact)

R=81 PLF U=29 PLF W=9-1-6  
 (6.122" Effective Contact)

R=26 U=180 W=6.31"  
 (6.122" Effective Contact)

Design Crit: TPI-2002 (STD) / FBC

Cq/RT=1.00(1.25) / 10(0) 7.25.0502

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

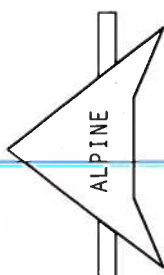
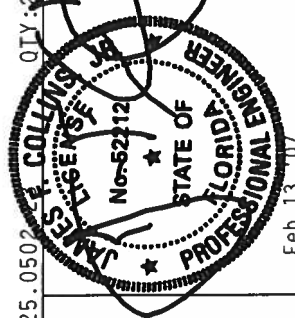
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**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. REFER TO BCG DESIGNER'S MANUAL FOR MORE INFORMATION. THE DESIGNER'S MANUAL IS AVAILABLE AT THE FOLLOWING URL: <http://www.itwbcg.com>. THE BCG DESIGNER'S MANUAL IS A REQUIRED PART OF THE TRUSS. ITW BCG SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. THE DESIGNER'S MANUAL IS AVAILABLE AT THE FOLLOWING URL: <http://www.itwbcg.com>. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-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 ANS1/TPI 1 SEC. 2.

REF	R215--	90267
DATE	02/13/07	
DRW	HCUSR215	07044029
HC-ENG	JK/WHK	
SEQN-	158221	
FROM	CDM	
JREF-	1T4U215_Z01	

TOT.LD.	32.0	PSF
BC LL	0.0	PSF
BC DL	2.0	PSF
TC DL	10.0	PSF
TC TL	20.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	



TW Building Components Group, Inc.  
 Haines City, FL 33844  
 FL Certificate of Authorization # 567

( 4149-/Lot 3 Laurel Lakes II /J.L. DUPREE -- LAKE CITY, FL - PB3 )

Top chord 2x4 SP #2 N  
 3ot chord 2x4 SP #2 N  
 Webs 2x4 SP #2 N

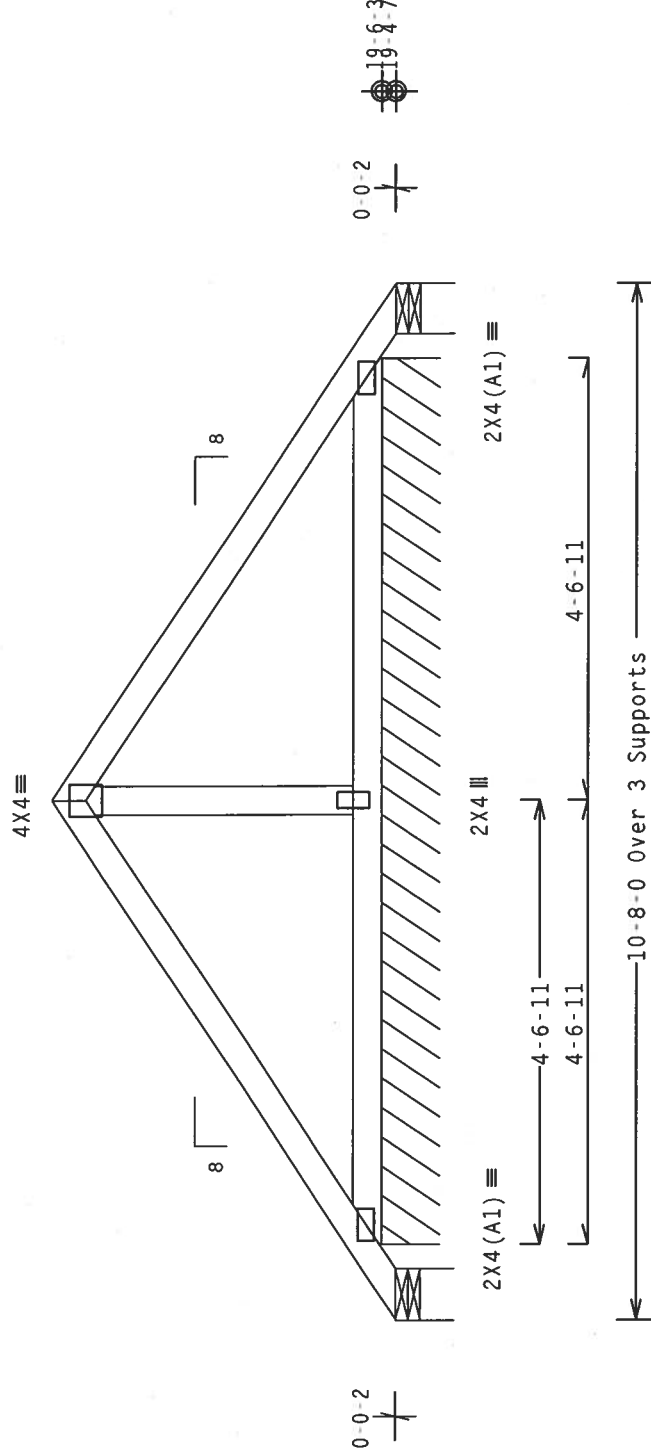
110 mph wind, 20.71 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

The overall height of this truss excluding overhang is 3-6-11.

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

REFER TO DRAWING PIGBACK0204 FOR PIGGYBACK DETAILS.  
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED @ 24" O.C.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.



R=79 U=180 W=6.31"  
 (6.122" Effective Contact)

R=93 PLF U=60 PLF W=9-1-6  
 (6.122" Effective Contact)

10-8-0 Over 3 Supports

R=79 U=180 W=6.31"  
 (6.122" Effective Contact)

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

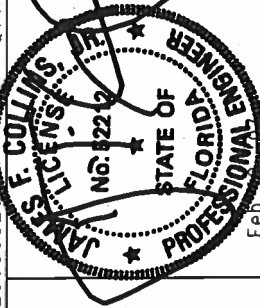
Cq/RT=1.00(1.25)/10(0) 7.25.0502.22

QTY:8 FL/-5/-/-R/-

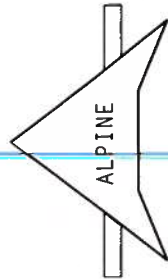
Scale = .5" / Ft.

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TC LL	20.0 PSF	REF	R215--	90268
TC DL	10.0 PSF	DATE	02/13/07	
BC DL	2.0 PSF	DRW	HCUSR215	07044031
BC LL	0.0 PSF	HC-ENG	JK/WHK	
TOT.LD.	32.0 PSF	SEQN-	158218	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1T4U215_Z01	



ALPINE Building Components Group, Inc.  
 Gaines City, FL 33844  
 FL Certificate of Authorization # 567

# CLB WEB BRACE SUBSTITUTION

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

## NOTES:

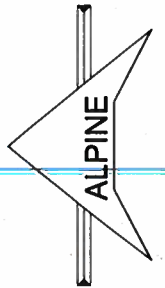
THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

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

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

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

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



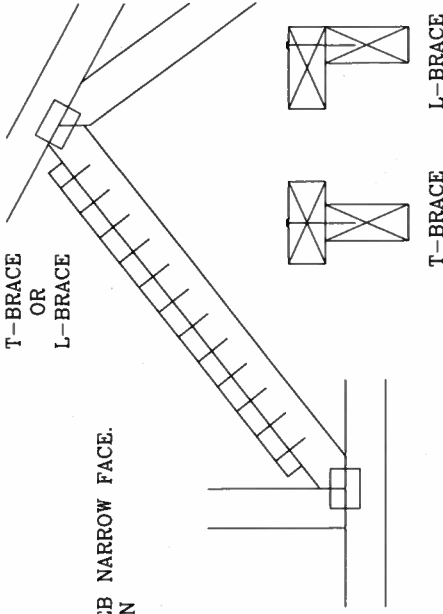
ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

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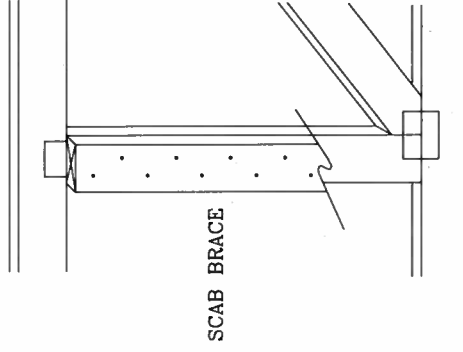
## T-BRACING OR L-BRACING:

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

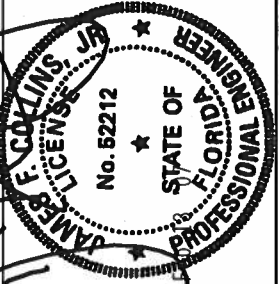


## SCAB BRACING:

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



THIS DRAWING REPLACES DRAWING 579,640



TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	11/1/06
BC DL	PSF	DRWG	BRCLBSUB1106
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	HEM-FIR
#1 / #2	#2
STANDARD	STANDARD

GROUP B:

DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STANDARD	STANDARD

GROUP B:

HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

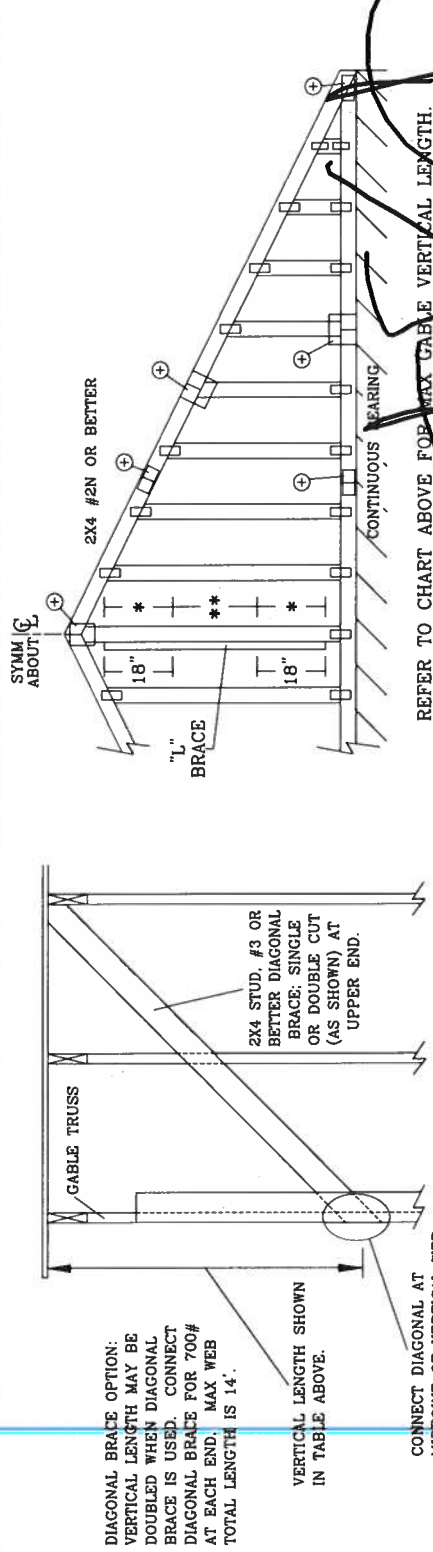
GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

\* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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



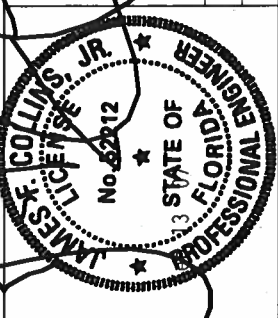
GABLE VERTICAL PLATE SIZES

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

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

REF	ASCE7-02-CAB11030
DATE	11/1/06
DRWG	A11030EE1106
	-ENG

MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"



**WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTING. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND ERECTION OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND ERECTION OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND ERECTION OF THE TRUSS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND ERECTION OF THE TRUSS.

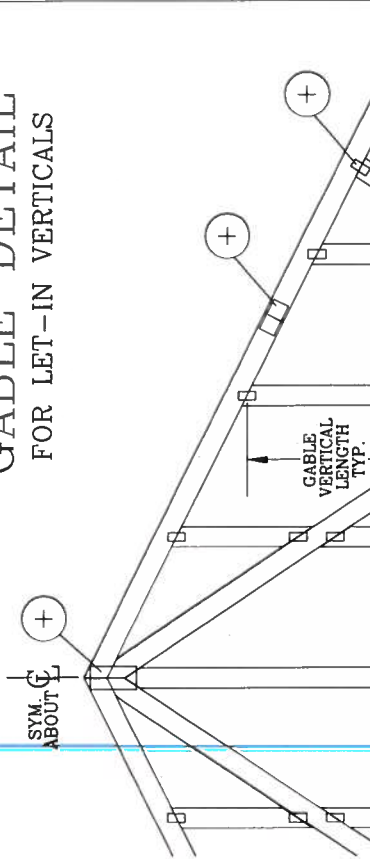
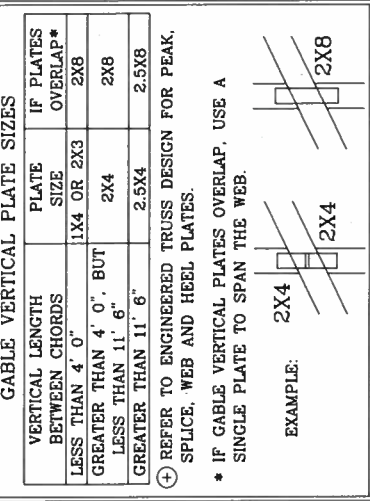
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LOCATED ON THIS DESIGN POSITION PER DRAWINGS 60A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSII/TPI 1 SEC. 2.

**ALPINE**

ALPINE ENGINEERED PRODUCTS, INC.  
POMPANO BEACH, FLORIDA

# GABLE DETAIL FOR LET-IN VERTICALS



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

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

WEB LENGTH INCREASE W/ "T" BRACE

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

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

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN. ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:  
10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS  
(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.  
GUN DRIVEN NAILS:  
8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS  
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.  
ASCE 7-93 GABLE DETAIL DRAWINGS  
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103  
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103  
ASCE 7-98 GABLE DETAIL DRAWINGS  
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103  
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103  
ASCE 7-02 GABLE DETAIL DRAWINGS  
A13015EB0405, A12015EB0405, A11015EB0405, A10015EB0405, A08515EB0405, A13030EB0405, A12030EB0405, A11030EB0405, A10030EB0405, A08530EB0405  
SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

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THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC26294035

REF	LET-IN VERT
DATE	11/1/06
DRWG	GBLETTIN1106
	-ENG DLJ/KAR

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

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

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH

#3
STUD
STANDARD

GROUP B:

HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

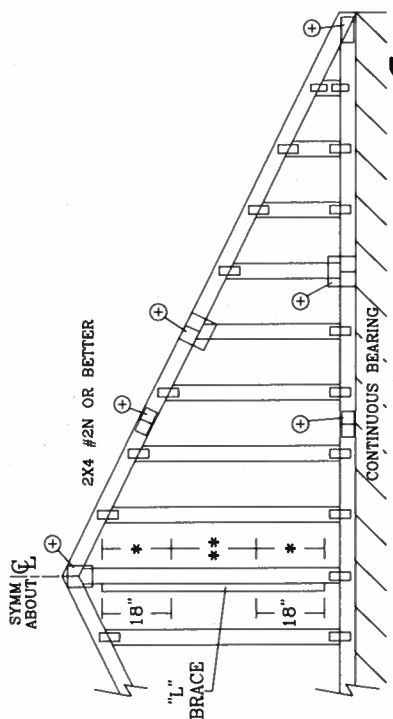
GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
- GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
- ATTACH EACH "L" BRACE WITH 10d NAILS.
- \*\* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
- \*\* FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 90% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

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

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

Professional Engineer Seal for James F. Collins, License No. 5227, State of Florida.

DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 600# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN IN TABLE ABOVE.

CONNECT DIAGONAL AT MIDPOINT OF VERTICAL WEB.

ALPINE ENGINEERED PRODUCTS, INC. POMPANO BEACH, FLORIDA

MAX. SPACING 24.0"

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REF	ASCEY-02-GABI1015
DATE	11/1/06
DRWG	A11015EE1106
	-ENG

# BEARING BLOCK NAIL SPACING DETAIL

MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

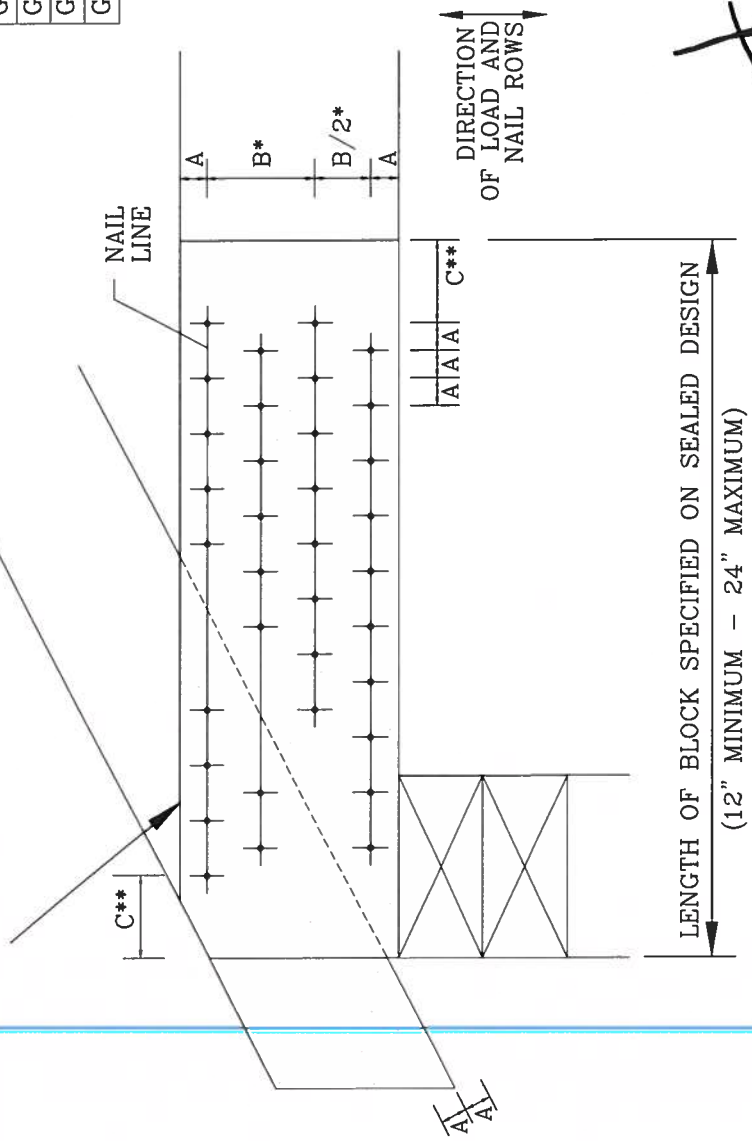
NAIL TYPE	CHORD SIZE				
	2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X 2.5",MIN)	3	6	9	12	15
10d BOX (0.128"X 3",MIN)	3	5	7	10	12
12d BOX (0.128"X 3.25",MIN)	3	5	7	10	12
16d BOX (0.135"X 3.5",MIN)	3	5	7	10	12
20d BOX (0.148"X 4",MIN)	2	4	5	6	8
8d COMMON (0.131"X 2.5",MIN)	3	5	7	10	12
10d COMMON (0.148"X 3",MIN)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

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

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

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

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



## MINIMUM NAIL SPACING DISTANCES

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

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

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

REF BEARING BLOCK  
 DATE 11/1/06  
 DRWG CNBRGBLK1106  
 -ENG SJP/KAR

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC'S BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE TRUSS MANUFACTURING INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING AND/OR TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE BY OWNER AND/OR TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE BY OWNER AND/OR TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE BY OWNER AND/OR TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE BY OWNER AND/OR TPI.

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 ALPINE ENGINEERED PRODUCTS, INC.  
 POMPANO BEACH, FLORIDA