

DATE 04/13/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT

000024388

APPLICANT MATT CASON PHONE 386.752.5152
ADDRESS 853 SW SISTERS WELCOME ROAD LAKE CITY FL 32025
OWNER STACY L. UDELL PHONE 386.752.4145
ADDRESS 193 NE RIFLE COURT LAKE CITY FL 32055
CONTRACTOR WM. STANLEY CRAWFORD PHONE 386.752.5152
LOCATION OF PROPERTY 90-E TO PRICE CREEK RD,TL TO WASHINGTON,TR CROSS TRACKS TO
BURBANK TERRACE,TL TO KINGSTON,TR & RD TURNS INTO DIRT ON R.
TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 0.00
HEATED FLOOR AREA 1670.00 TOTAL AREA HEIGHT 17.30 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC
LAND USE & ZONING I MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 35-3S-17-07313-000 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 1.73

RG0042896
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
PRIVATE 06-0350-N BLK JTH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: 1 FOOT ABOVE ROAD.DWELLING EXISTED ON PROPERTY PRIOR TO AMENDING

RESOLUTION/SECTION 4.162.#16. VESTED RIGHTS. SECTION 2.4

NO CHARGE. M/H BURN'T. SFD REPLACES. Check # or Cash NO CHARGE

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 \$ 0.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ TOTAL FEE 0.00
INSPECTORS OFFICE CLERKS OFFICE

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

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

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

Revised 9-23-0

For Office Use Only Application # 06 04-26 Date Received 4-7-06 By GP Permit # 24388
 Application Approved by - Zoning Official BSLR Date 11.04.06 Plans Examiner OK JTH Date 4-12-06
 Flood Zone X Development Permit N/A Zoning I Land Use Plan Map Category I
 Comments Dwelling Existed on Property prior to Amending of Regulation Section 4.162 #16
Vested Rights Section 2.41 NO CHARGE - MH Burns Original

Applicants Name Matt Cason Phone 752-5152
 Address 853 SW Sisters Welcome Rd LC FL 32025
 Owners Name Barrick & Stacy Udell Phone 752-5152
 911 Address 193 NE Rifle Ct. LC FL 32055
 Contractors Name SCCI Phone 752-5152
 Address 853 SW Sisters Welcome Rd LC FL 32055

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Mark Disosway PO Box 868 LC FLMortgage Lenders Name & Address First Federal Savings BankCircle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive EnergyProperty ID Number 35-35-17-07313-000 Estimated Cost of Construction 103,000

Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____

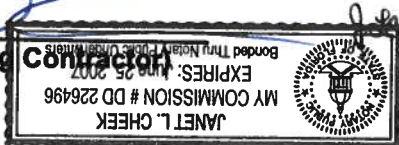
Driving Directions Hwy 90 E, TL on Price Creek Rd (CR245), TR on Washington St., TL on Burbank Ter., TR on Kingston Ln., Paved road turns to dirt, house on R.Type of Construction Single Family/Residential Number of Existing Dwellings on Property 0Total Acreage 1.73 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing DriveActual Distance of Structure from Property Lines - Front 85 Side 135 Side 39 Rear 240Total Building Height 17'3" Number of Stories 1 Heated Floor Area 1670 Roof Pitch 6/12
LACPORT 480 Porches 187 TOTAL 2380

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.

Owner Builder or Agent (Including

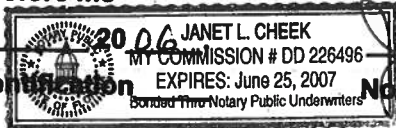
STATE OF FLORIDA
COUNTY OF COLUMBIA

Contractor Signature

Contractors License Number RG-0042896Competency Card Number 5627

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me

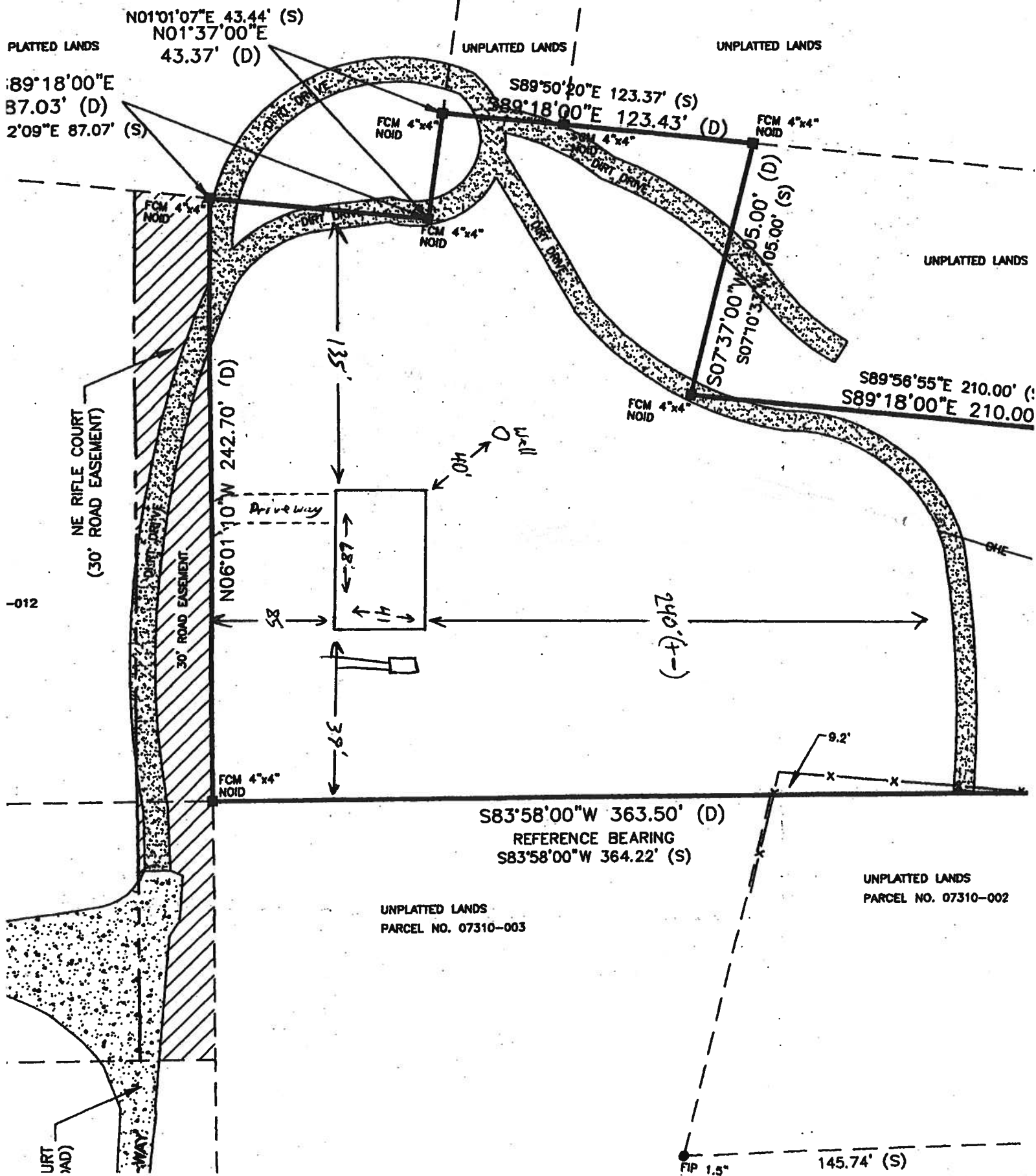
this 7th day of AprilPersonally known ☒ or Produced Identification ☐

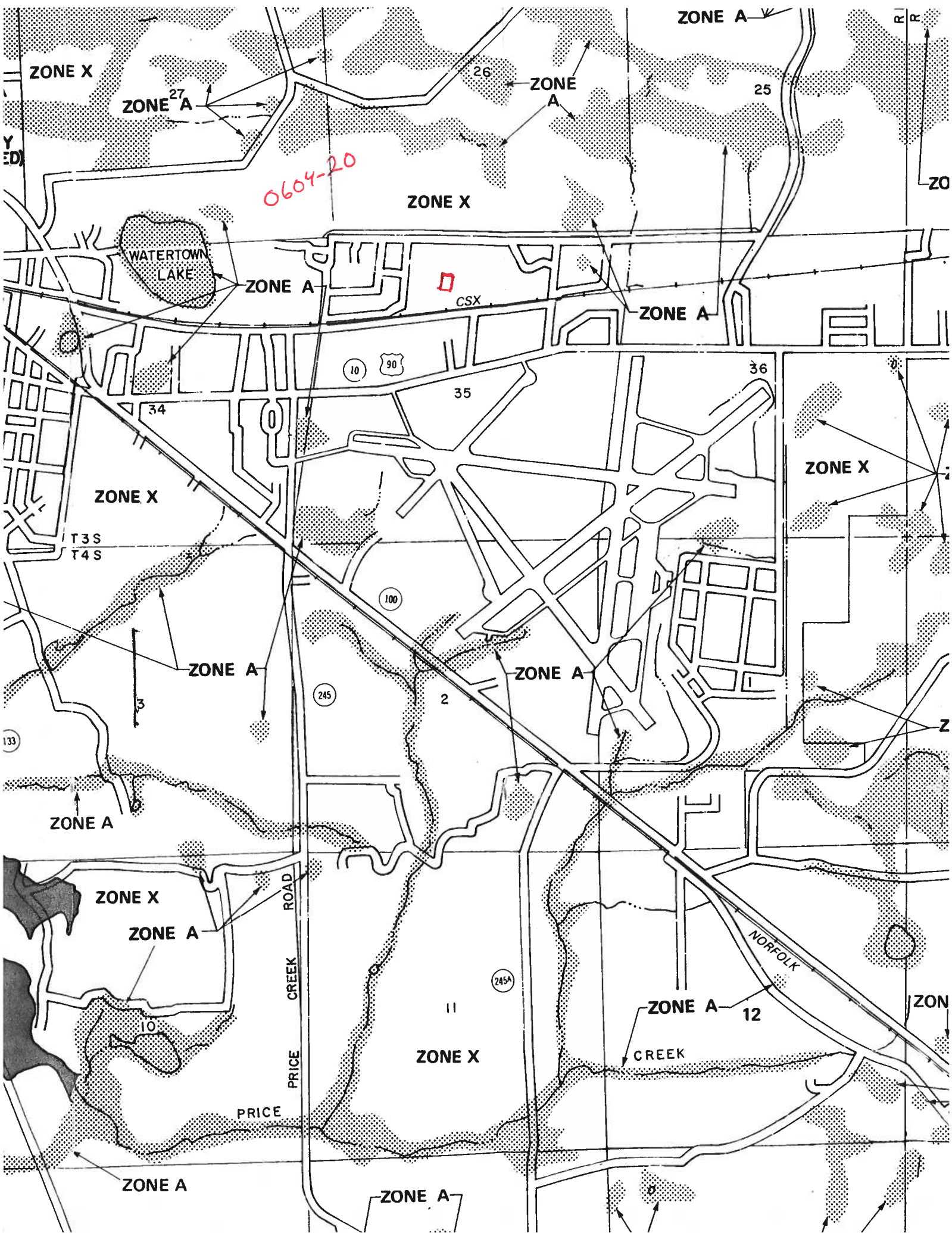
Notary Signature

Possibly from #24

Udell Res.

↑
North

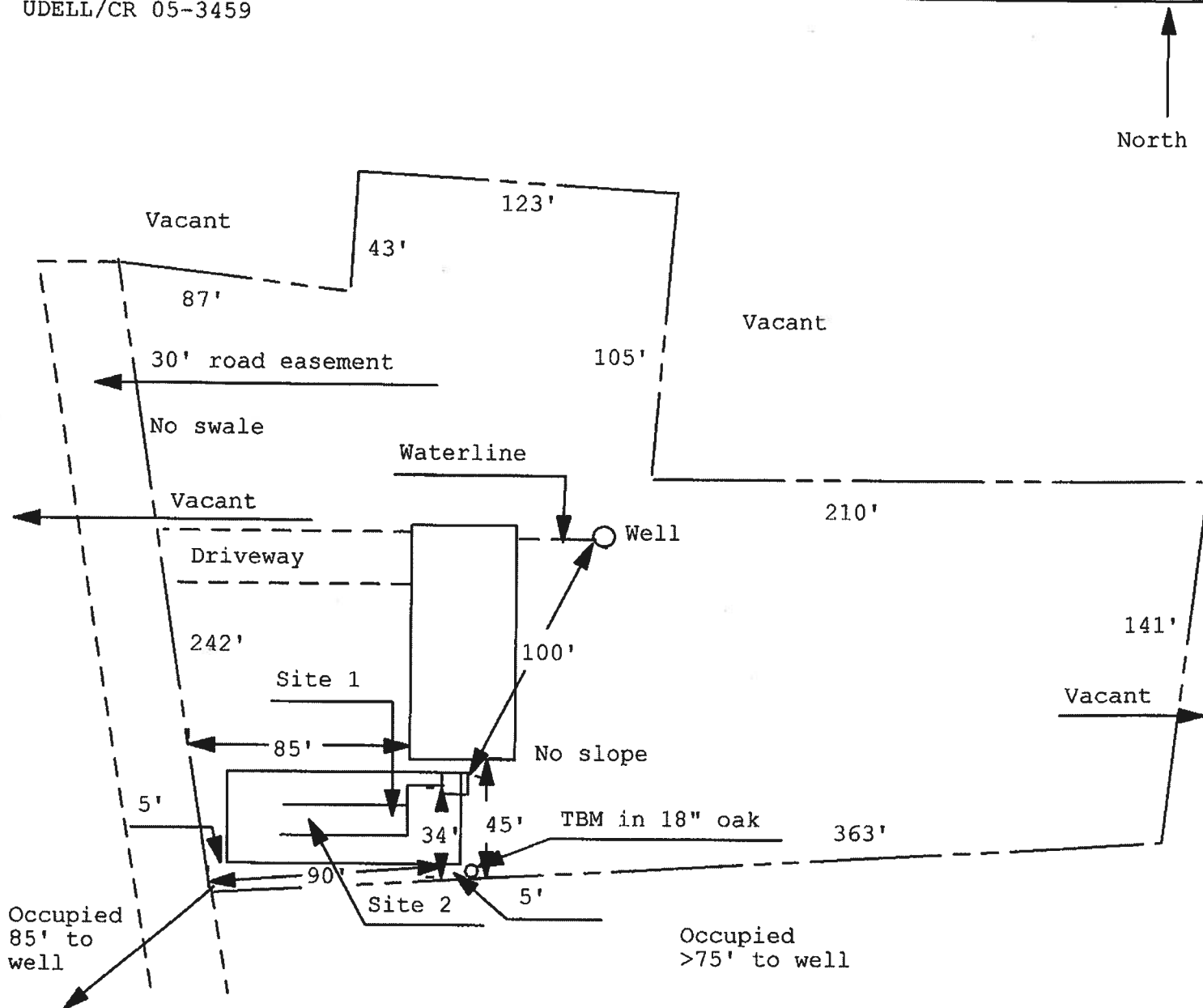




**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 06-0350N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

UDELL/CR 05-3459



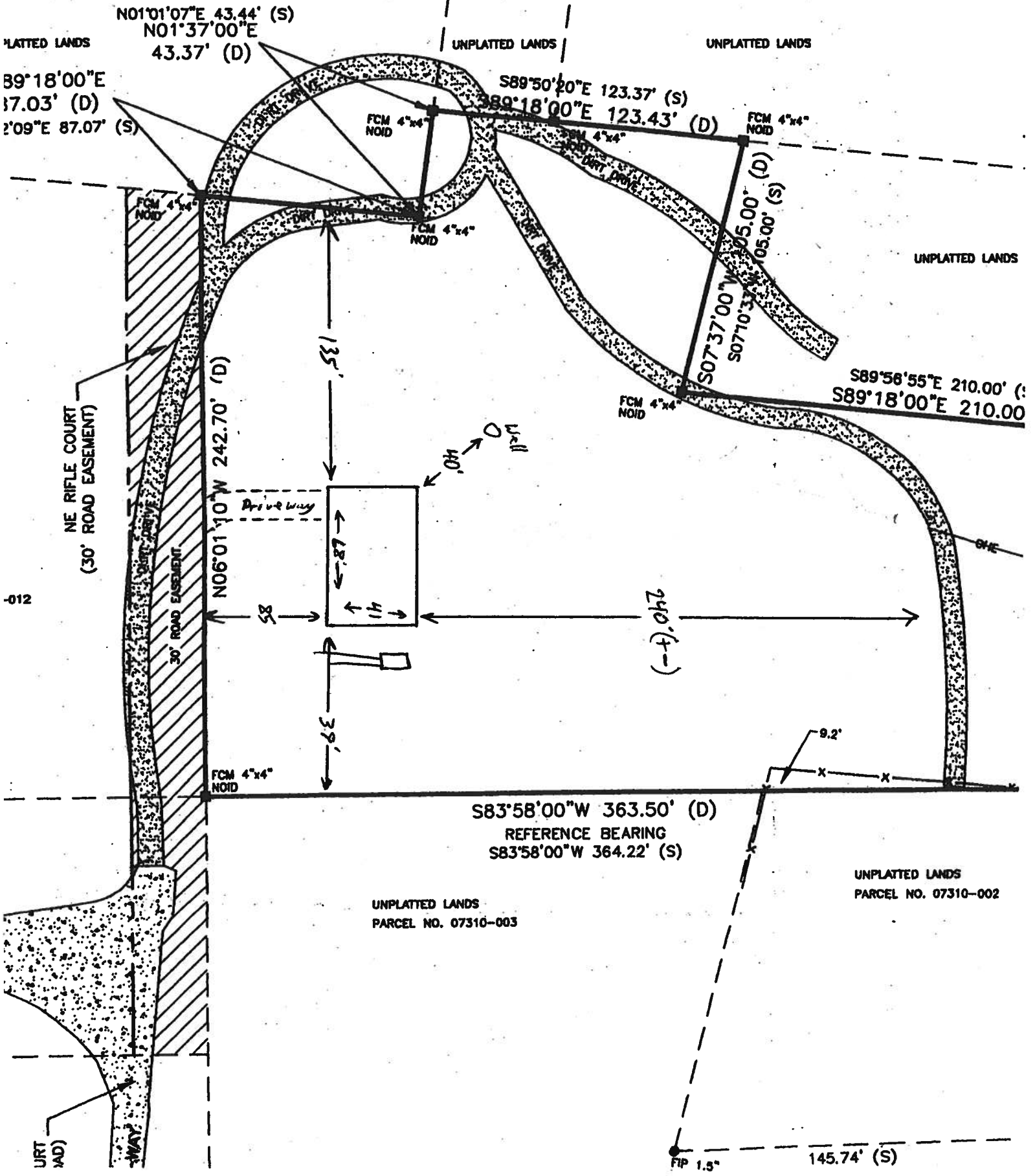
Site Plan Submitted By Paul L. [Signature] Date 4/5/06
Plan Approved ☒ Not Approved ☐ Date 4/14/06
By Mar [Signature] Columbia CPHU

Notes: _____

UNDARY SURVEY

Udell Res.

North ↑



-012

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 4/3/2006 DATE ISSUED: 4/4/2006

ENHANCED 9-1-1 ADDRESS:

193 NE RIFLE

CT

LAKE CITY FL 32055

PROPERTY APPRAISER PARCEL NUMBER:

35-3S-17-07313-000

Remarks:

Address Issued By: 

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

153

**COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED**

File Number: 06-169

Inst: 2006037373 Date: 03/27/2006 Time: 10:46
Doc Stamp-Deed: 0.70
DC, P. Dewitt Cason, Columbia County B: 1078 P: 1216

Warranty Deed

Made this March 6, 2006 A.D.

By JAMES SIMMONS, hereinafter called the grantor,

to STACY L. UDELL, whose post office address is: TBD Rifle Court, Lake City, Florida 32025, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

See Attached Schedule "A"

NB: This deed is being recorded to correct error in deed recorded in Official Record Book 1066 Page 178.

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: 07313-000

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

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

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2005.

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

Signed, sealed and delivered in our presence:

Willis O. Cooper
Witness Printed Name: Willis O. Cooper

Marge B. Combs
Witness Printed Name: Marge B. Combs

State of Florida
County of Columbia

James Simmons (Seal)
James Simmons
Address: 201 N. E. Vegas Terr
Lake City, FL 32055

Address: _____ (Seal)

The foregoing instrument was acknowledged before me this 6th day of March, 2006, by James Simmons, who is/are personally known to me or who has produced known as identification.

Willis O. Cooper
Notary Public
Print Name: Willis O. Cooper

My Commission Expires _____

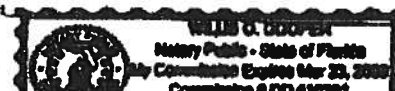


EXHIBIT "A"

TOWNSHIP 3 SOUTH-RANGE 17 EAST

SECTION 35: Commence at the NE corner of the NE 1/4 of the NW 1/4 of said Section and run Thence N 89° 18' West along the North line of said NE 1/4 of NW 1/4 233.96 feet, Thence South 7° 37' West 640.00 feet to the Point of Beginning, Thence continue South 7° 37' West, 141.02 feet to NE corner of Lands described in Official Records Book 272 Page 671, Thence South 83° 58' West parallel to the centerline of CSX Transportation Railroad, 363.50 feet, Thence North 6° 01' 10" West 242.70 feet, Thence South 89° 18' East 87.03 feet, Thence North 1° 37' East, 43.37 feet, Thence South 89° 18' East, 123.43 feet, Thence South 7° 37' West 105.00 feet, Thence South 89° 18' East 210.00 feet to the Point of Beginning. **IN COLUMBIA COUNTY, FLORIDA.**

Together With a Non Exclusive Perpetual Easement for Ingress and Egress over and across the followings described lands:

The East 30 feet of the following: Commence at the NE corner of the NE 1/4 of the NW 1/4 of Section 35, Township 3 South, Range 17 East, and Thence run South 1170.25 feet to the centerline of S. C. L. Railroad Right of Way, Thence run West 513.20 feet, Thence run North 310.06 feet for a Point of Beginning, Thence run West 210.00 feet, thence run North 105.00 feet, Thence run East 210.00 feet, Thence run South 105.00 feet to the Point of Beginning.

Also:

The East 30 feet of the following: Commence at the intersection of the East line of the NE 1/4 of the NW 1/4 of, Section 35, Township 3 South, Range 17 East, and the North Right of Way line of S. C. L. Railroad, Thence run West along Right of Way line 513.20 feet, Thence run North 355.00 feet for the Point of Beginning, Thence run West 210.00 feet, Thence run North 268.00 feet, Thence run East 211.46 feet, Thence run South 242.70 feet to the Point of Beginning

Inst:2006007373 Date:03/27/2006 Time:10:46

Doc Stamp-Deed : 0.70

DC, P. DeWitt Cason, Columbia County B:1078 P:1217

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **crawford/udell**
Address:
City, State:
Owner:
Climate Zone: **North**

Builder: **crawford**
Permitting Office: **Cowmola**
Permit Number: **24388**
Jurisdiction Number: **221000**

1. New construction or existing **New**
2. Single family or multi-family **Single family**
3. Number of units, if multi-family **1**
4. Number of Bedrooms **3**
5. Is this a worst case? **Yes**
6. Conditioned floor area (ft²) **1670 ft²**
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)

a. U-factor:	Description	Area
(or Single or Double DEFAULT) 7a.	(Double Default)	156.0 ft ²
b. SHGC:		
(or Clear or Tint DEFAULT) 7b.	(Clear)	156.0 ft ²
8. Floor types

a. Slab-On-Grade Edge Insulation	R-4.0, 178.0(p) ft ²
b. N/A	
c. N/A	
9. Wall types

a. Frame, Wood, Exterior	R=13.0, 1546.0 ft ²
b. N/A	
c. N/A	
d. N/A	
e. N/A	
10. Ceiling types

a. Under Attic	R=30.0, 1670.0 ft ²
b. Under Attic	R=19.0, 144.0 ft ²
c. N/A	
11. Ducts

a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=5.0, 288.0 ft ²
b. N/A	

12. Cooling systems

a. Central Unit	Cap: 36.0 kBtu/hr SEER: 13.00
b. N/A	
c. N/A	
13. Heating systems

a. Electric Heat Pump	Cap: 34.0 kBtu/hr HSPF: 7.00
b. N/A	
c. N/A	
14. Hot water systems

a. Electric Resistance	Cap: 50.0 gallons EF: 0.92
b. N/A	
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
15. HVAC credits
(CF-Ceiling fan, CV-Cross ventilation,
HF-Whole house fan,
PT-Programmable Thermostat,
MZ-C-Multizone cooling,
MZ-H-Multizone heating)

Glass/Floor Area: 0.09

Total as-built points: 21834

Total base points: 26283

PASS

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

PREPARED BY: SUNCOAST ENERGYDATE: 4-5-06

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 284.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE	AS-BUILT																							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Type/SC</th> <th colspan="3">Overhang</th> <th rowspan="2">Area X SPM X SOF = Points</th> </tr> <tr> <th>Omt</th> <th>Len</th> <th>Hgt</th> </tr> </thead> <tbody> <tr> <td>Double, Clear</td> <td>W</td> <td>2.0</td> <td>6.0</td> <td>84.0 38.52 0.85 2748.7</td> </tr> <tr> <td>Double, Clear</td> <td>E</td> <td>2.0</td> <td>6.0</td> <td>72.0 42.06 0.85 2568.3</td> </tr> <tr> <td colspan="4">As-Built Total:</td> <td>156.0 5317.0</td> </tr> </tbody> </table>	Type/SC	Overhang			Area X SPM X SOF = Points	Omt	Len	Hgt	Double, Clear	W	2.0	6.0	84.0 38.52 0.85 2748.7	Double, Clear	E	2.0	6.0	72.0 42.06 0.85 2568.3	As-Built Total:				156.0 5317.0
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Double, Clear	E	2.0	6.0	72.0 42.06 0.85 2568.3																				
As-Built Total:				156.0 5317.0																				
WALL TYPES Area X BSPM = Points	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>R-Value</th> <th>Area X SPM = Points</th> </tr> </thead> <tbody> <tr> <td>Adjacent</td> <td>0.0 0.00 0.0</td> <td></td> </tr> <tr> <td>Exterior</td> <td>1546.0 1.70 2628.2</td> <td></td> </tr> <tr> <td colspan="2">Base Total:</td> <td>1946.0 2628.2</td> </tr> <tr> <td colspan="2">As-Built Total:</td> <td>1546.0 2319.0</td> </tr> </tbody> </table>	Type	R-Value	Area X SPM = Points	Adjacent	0.0 0.00 0.0		Exterior	1546.0 1.70 2628.2		Base Total:		1946.0 2628.2	As-Built Total:		1546.0 2319.0								
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CEILING TYPES Area X BSPM = Points	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>R-Value</th> <th>Area X SPM X SCM = Points</th> </tr> </thead> <tbody> <tr> <td>Under Attic</td> <td>1670.0 1.73 2889.1</td> <td></td> </tr> <tr> <td>Under Attic</td> <td>19.0 144.0 2.34 X 1.00 337.0</td> <td></td> </tr> <tr> <td colspan="2">Base Total:</td> <td>1670.0 2889.1</td> </tr> <tr> <td colspan="2">As-Built Total:</td> <td>1614.0 3226.1</td> </tr> </tbody> </table>	Type	R-Value	Area X SPM X SCM = Points	Under Attic	1670.0 1.73 2889.1		Under Attic	19.0 144.0 2.34 X 1.00 337.0		Base Total:		1670.0 2889.1	As-Built Total:		1614.0 3226.1								
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FLOOR TYPES Area X BSPM = Points	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>R-Value</th> <th>Area X SPM = Points</th> </tr> </thead> <tbody> <tr> <td>Slab</td> <td>178.0(p) -37.0 -6532.6</td> <td></td> </tr> <tr> <td>Raised</td> <td>0.0 0.00 0.0</td> <td></td> </tr> <tr> <td colspan="2">Base Total:</td> <td>-6532.6</td> </tr> <tr> <td colspan="2">As-Built Total:</td> <td>178.0 -6532.6</td> </tr> </tbody> </table>	Type	R-Value	Area X SPM = Points	Slab	178.0(p) -37.0 -6532.6		Raised	0.0 0.00 0.0		Base Total:		-6532.6	As-Built Total:		178.0 -6532.6								
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Raised	0.0 0.00 0.0																							
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INFILTRATION Area X BSPM = Points	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Area X SPM = Points</th> </tr> </thead> <tbody> <tr> <td>1670.0 10.21 17050.7</td> </tr> <tr> <td>As-Built Total:</td> </tr> </tbody> </table>	Area X SPM = Points	1670.0 10.21 17050.7	As-Built Total:																				
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1670.0 10.21 17050.7																								
As-Built Total:																								
Summer Base Points: 22286.6	Summer As-Built Points: 21568.7																							
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)																							
22286.6 0.4266 9507.5	(eqs 1: Central Unit 36000 btuh, SEER/EPR(13.0) Ducts:Uno(S),Uno(F),Jst(AH),R6.0(NS) 21568.7 1.00 (1.00 x 1.147 x 0.91) 0.263 1.000 6442.4 21568.7 1.00 1.138 0.263 1.000 6442.4																							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt		Area X WPM X WOF = Point				
.18	1670.0	12.74	3828.6	Double, Clear	W	2.0	6.0	84.0	20.73	1.04	1815.6
				Double, Clear	E	2.0	6.0	72.0	18.79	1.08	1435.0
				As-Built Total:				156.0	3250.6		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1546.0	3.40	5256.4		
Exterior	1546.0	3.70	5720.2								
Base Total:				As-Built Total:		1546.0		5256.4			
DOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated			46.0	8.40	386.4		
Exterior	46.0	12.30	566.8								
Base Total:				As-Built Total:		46.0		386.4			
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1670.0	2.05	3423.5	Under Attic	30.0		1670.0	2.05 X 1.00	3423.5		
				Under Attic	19.0		144.0	2.70 X 1.00	388.8		
Base Total:				As-Built Total:		1814.0		3812.3			
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	178.0(p)	8.9	1584.2	Slab-On-Grade Edge Insulation	4.0		178.0(p)	8.45	1504.1		
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:		178.0		1504.1			
INFILTRATION Area X BWPM = Points						Area X WPM = Points					
1670.0 -0.59 -965.3						1670.0 -0.59 -965.3					
Winter Base Points: 14138.0				Winter As-Built Points: 13224.5							
Total Winter X Points	System Multiplier	Heating Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	Heating Points		
14138.0	0.6274	8870.2		(see 1: Electric Heat Pump 34000 btuh, EFF(7.0), Ducts:Unc(S),Unc(R),Int(AH),R6.0 13224.5 1.000 (1.089 x 1.169 x 0.93) 0.487 1.000 7487.0 13224.5 1.00 1.162 0.487 1.000 7487.0							

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 joist 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-Framed R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit = Total Multiplier
3		2635.00	7905.0	50.0	0.92	3	1.00	2635.00	1.00 7905.0
				As-Built Total:				7905.0	

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
9507	8870	7905	26283	6442	7487	7905	21834

PASS



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.2

The higher the score, the more efficient the home.

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	1670 ft ²		
7. Glass type ¹ and area (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 34.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default) 156.0 ft ²			HSPF: 7.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 156.0 ft ²		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R-4.0, 178.0(p) ft ²	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wnd, Exterior	R-13.0, 1546.0 ft ²	(HR-Heat recovery, Solar	
b. N/A		DRIP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1670.0 ft ²	MZ-C-Multizone cooling,	
b. Under Attic	R=19.0, 144.0 ft ²	MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup. Uno. Ret. Uno. AH: Interior	Sup. R=6.0, 288.0 ft ²		
b. N/A			

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

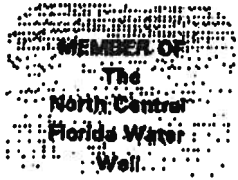
Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

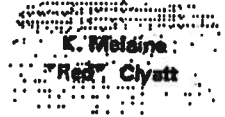


*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar[®] designation), your home may qualify for energy efficiency mortgage (EEM) incentives if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

¹ Predominant glass type. For actual glass type and area, see Summer & Winter Glass output on pages 2&4.
EnergyGauge[®] (Version: FLRCSB v4.0)



Clyatt Well Drilling, Inc.
(Established in 1971)
POST OFFICE BOX 180
WORTHINGTON SPRINGS, FLORIDA 32697



Telephone Number (386)496-2488
FAX Number (386)496-4640

June 18, 2002

Columbia County Building Department
Post Office Box 1529
Lake City, Florida 32056

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the above-referenced well:

Size of Pump Motor:	1-1/2 Horse Power
Size of Pressure Tank:	220 Gallon Equivalent
Cycle Stop Valve Used:	No

Should you require any additional information, please do not hesitate to contact us.

Respectfully,

CLYATT WELL DRILLING, INC.

K. Melaine "Red" Clyatt
President

Clyatt Well Drilling, Inc.
(Established in 1971)
POST OFFICE BOX 180
WORTHINGTON SPRINGS, FLORIDA 32697

Telephone Number (386)496-2488
FAX Number (386)496-4640

**PUMP AND TANK SPECIFICATIONS FOR
STANDARD 4" RESIDENTIAL WELLS**

PUMPS

1 Horse Power Submersible Pump
20 Gallons Per Minute
Voltage: 240
Phase: (Single) 1

1.5 Horse Power Submersible Pump
25 Gallons Per Minute
Voltage: 240
Phase: (Single) 1

TANK

WF-255 Captive Air Tank
Capacity 81 Gallons
Equivalent 220 Gallons
Draw Down 25 Gallons

District No. 1 - Ronald Williams
District No. 2 - Dewey Weaver
District No. 3 - George Skinner
District No. 4 - Stephen E. Bailey
District No. 5 - Elizabeth Porter

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY



19 March 2007

Darrell W. Hunt
119 Northwest Ethan Place
Lake City, FL 32055

TRANSMITTED VIA FACSIMILE

RE: Tax Parcel ID# 35-3S-17-07313-000

Dear Darrell:

The above referenced property is located within an Industrial (I) zoning district. In accordance with Columbia County's Land Development Regulations, existing single family dwellings are a permitted use within this zoning district. In 2006 a building permit was issued based on information provided to this department showing that a mobile home (single family dwelling) had existing on the property prior to the County amending its Land Development Regulations. The mobile home burned and the house replaced this structure as an existing single family dwelling. If this new house was therefore damaged or destroyed, a building permit could be issued for the repair or replace of the house.

If you have any questions concerning this matter, please do not hesitate to contact me at 386.758.1008.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian L. Kepner".

Brian L. Kepner
Land Development Regulation Administrator,
County Planner

BOARD MEETS FIRST THURSDAY AT 7 00 P.M.
AND THIRD THURSDAY AT 7 00 P.M.

COLUMBIA COUNTY

FLORIDA

BUILDING & ZONING DEPARTMENT

135 NE Hernando Ave., Suite B-21

Lake City, FL 32055

PH: (386) 758-1008, (386) 758-1124, (386) 758-1007

Fax: (386) 758-2160

FAX COVER SHEET

To: Rob Burns

From: Brian / Janice

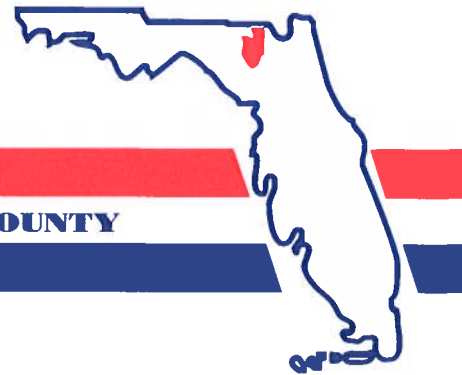
Fax Number: 755-6046

Pages: 2

Notes: As per your request re: Mary Usher

"Serving our community for the building of tomorrow."

District No. 1 - Ronald Williams
District No. 2 - Dewey Weaver
District No. 3 - George Skinner
District No. 4 - Jennifer Flinn
District No. 5 - Elizabeth Porter



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

27 February 2006

Rob Burns
First Federal Savings Bank of Florida
2571 West U.S. Hwy 90
Lake City, FL 32055

RE: Residence in Industrial Zoning District

Dear Rob:

The County's Land Development Regulations (LDR's) allow as a permitted principle structure and use, single family dwellings in Industrial zoning districts. If a single family dwelling was in existence on the property prior to the adoption of County's Land Development Regulations of 4 March 1998. If the single family dwelling had been removed, damaged or destroyed. Then the County would be able to issue permits for it's replacement.

Based on the evidence provided to me by Stacy Udell on the property that she has purchased. A building permit for a single family dwelling, house or mobile home would be able to be issued for this property.

If you have any questions concerning this matter, please do not hesitate to contact me at 758.1007.

Sincerely,

A handwritten signature in blue ink, which appears to read "Brian L. Kepner".

Brian L. Kepner
Land Development Regulation Administrator,
County Planner

BOARD MEETS FIRST THURSDAY AT 7:00 P.M.
AND THIRD THURSDAY AT 7:00 P.M.



@ CAM112M01	CamaUSA Appraisal System	Columbia County
2/22/2006 16:52	Legal Description Maintenance	15086 Land 001
Year T Property	* PRIOR YEAR *	AG 000
2005, R 35-3S-17-07313-000	Sel	Bldg 000
		Xfea 000
SIMMONS JAMES		15086 TOTAL B

1	COMM NE COR OF NE1/4 OF NW1/4,	RUN W 233.96 FT, SW 640 FT FOR	2
3	POB, CONT S 141.02 FT, W	353.50 FT, NW 242.70 FT, E	4
5	87.03 FT, N 43.37 FT, E 123.43	FT, SW 105 FT, E 210 FT TO POB	6
7	ORB 797-1178, 797-1770,		8
9			10
11			12
13			14
15			16
17			18
19			20
21			22
23			24
25			26
27			28

Mnt 9/08/1997 TERR

F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More

1.73
 NONE-
 VACANT
 NEVER
 Homesteaded

@ CAM112M01	CamaUSA Appraisal System	Columbia County
2/22/2006 16:56	Legal Description Maintenance	4160 Land 001
Year T Property	* PRIOR YEAR *	AG 000
2005, R 35-3S-17-07310-002	Sel	13172 Bldg 001
		Xfea 000
MORGAN MARQUIS L		17332 TOTAL B*

1	COMM INTERS OF E LINE OF NE1/4	OF NW1/4 & N R/W SCL RR, RUN W	2
3	239.26 FT, N 215.96 FT FOR	POB, RUN W 146 FT, N 146 FT, .	4
5	E 146 FT, S 146 FT TO POB.	ORB 803-1474, 830-1779,	6
7	889-751,		8
9			10
11			12
13			14
15			16
17			18
19			20
21			22
23			24
25			26
27			28

Mnt 4/09/2001 TERRY

F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More

1997

@ CAM110M01	CamaUSA Appraisal System	Columbia County
2/22/2006 17:01	Property Maintenance	1500 Land 001
Year T Property	* PRIOR YEAR *	AG 000
1999 R 35-3S-17-07310-002	...	7529 Bldg 001
Owner ANDERSON WALDRICK DE-JUAN	Conf	Xfea 000
Addr ROUTE 7 BOX 514		9029 TOTAL B*

City,St LAKE CITY	FL Zip 32025	Retain Cap?	.500 Total Acres
Country	(PUD1)	Y (PUD2)	Renewal Notice (PUD3)

Appr By CO	Date 1/01/1987	AppCode	UseCd 000100	SINGLE FAMILY
TxDist	Nbhd	MktA	ExCode	Exemption/%
002	35317.00	01	HX	25000
	DIST 2			

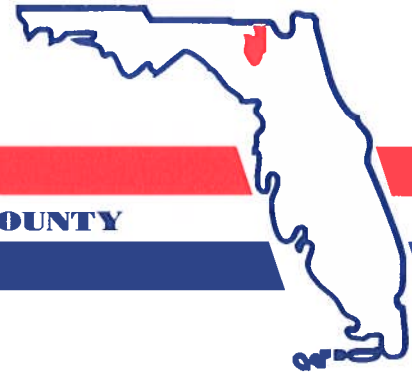
House#	-	Street RT 7 BX 514	MD	Dir	#
		City			

Subd	N/A	Condo	.00	N/A
Sect	35 Twn	3S Rnge	17 Subd	Blk
Legals	COMM INTERS OF E LINE OF NE1/4	OF NW1/4 & N R/W SCL RR, RUN W		
	239.26 FT, N	215.96 FT FOR	POB, RUN W 146 FT, N 146 FT,	+
Map#			Mnt 5/28/1997 GAIL	

F1=Task F2=ExTx F3=Exit F4=Prompt F11=Docs F10=GoTo PgUp/PgDn F24=More
 Invalid selection code

District No. 1 - Ronald Williams
District No. 2 - Dewey Weaver
District No. 3 - George Skinner
District No. 4 - Jennifer Flinn
District No. 5 - Elizabeth Porter

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY



22 February 2006

Rob Burns
First Federal Savings Bank of Florida
2571 West U.S. Hwy 90
Lake City, FL 32055

RE: Residences in Industrial Zoning District

Dear Rob:

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If you have any questions concerning this matter, please do not hesitate to contact me at 758.1007.

Sincerely,

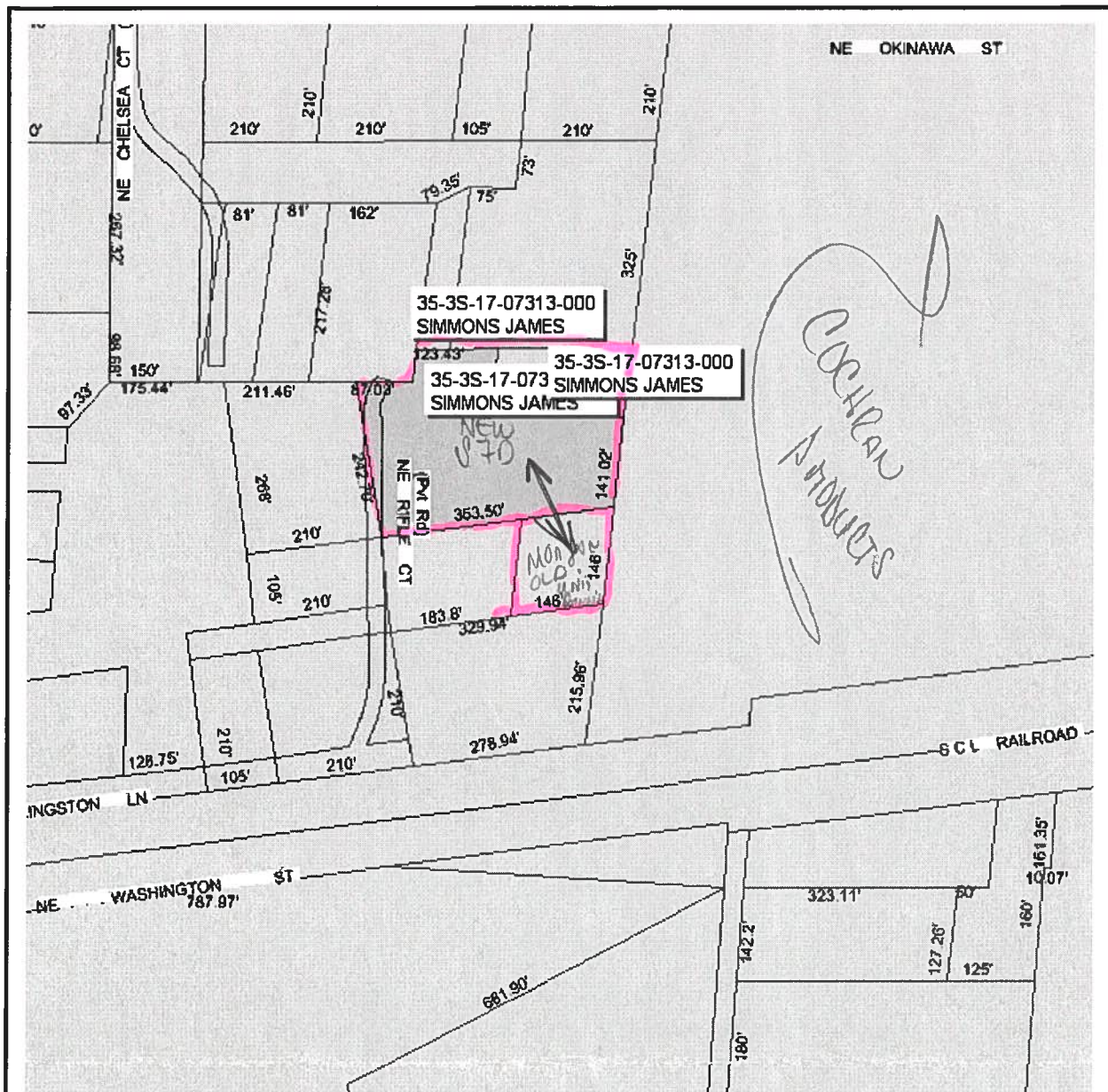
A handwritten signature in black ink, appearing to read "Brian L. Kepner".

Brian L. Kepner
Land Development Regulation Administrator,
County Planner



BOARD MEETS FIRST THURSDAY AT 7:00 P.M.
AND THIRD THURSDAY AT 7:00 P.M.





Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 35-3S-17-07313-000 - NO AG ACRE (009900)

COMM NE COR OF NE1/4 OF NW1/4, RUN W 233.96 FT, SW 640 FT FOR POB,
CONT S 141.02 FT, W

Name: SIMMONS JAMES	LandVal	\$15,086.00
Site:	BldgVal	\$0.00
Mail: P O BOX 3272	ApprVal	\$15,086.00
LAKE CITY, FL 32056	JustVal	\$15,086.00
Sales 11/22/1994 \$0.00 V/U	Assd	\$15,086.00
Info 10/19/1994 \$0.00 V/U	Exmpt	\$0.00
	Taxable	\$15,086.00

0 100 200 300 ft



This information, GIS Map Updated: 8/3/2005, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

ZONING INDUSTRIAL
W INDUSTRIAL USE

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 4/3/2006 DATE ISSUED: 4/4/2006

ENHANCED 9-1-1 ADDRESS:

193 NE RIFLE CT

LAKE CITY FL 32055

PROPERTY APPRAISER PARCEL NUMBER:

35-3S-17-07313-000

Remarks:

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

153

COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED

From: The Columbia County Building Department
Plans Review
135 NE Hernando Av.
P. O Box 1529
Lake City Florida, 32056-1529

Reference to a building permit application Number: **0604-20**

SCCI Construction Owner Barrick & Stacy Udel 193 NE Rifle Court

On the date of April 11, 2006 application 0604-20 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0604-20 when making reference to this application.

1. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
2. Please submit two sets of the engineered roof truss plans.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department



RIGHT-J LOAD AND EQUIPMENT SUMMARY

Entire House

Touchstone Heating and Air, Inc.

Job: Udell Residence
03/30/06

P.O. Box 327, Lake Butler, FL 32054 Phone: 386-486-3467 Fax: 386-486-3147

Project Information

For: Stanley Crawford Construction
853 S.W. Sisters Welcome Road, Lake City, FL 32025
Phone: 386-752-5152 Fax: 386-755-2165

Notes:

Design Information

Weather: Gainesville, FL , US

Winter Design Conditions

Outside db	30 °F
Inside db	70 °F
Design TD	40 °F

Summer Design Conditions

Outside db	93 °F
Inside db	75 °F
Design TD	18 °F
Daily range	M
Relative humidity	50 %
Moisture difference	50 gr/lb

Heating Summary

Building heat loss	45187 Btuh
Ventilation air	9 cfm
Ventilation air loss	379 Btuh
Design heat load	45566 Btuh

Sensible Cooling Equipment Load Sizing

Structure	23791 Btuh
Ventilation	990 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.98
Total sens. equip. load	24286 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

Latent Cooling Equipment Load Sizing

Internal gains	230 Btuh
Ventilation	1697 Btuh
Infiltration	2411 Btuh
Total latent equip. load	4338 Btuh

	Heating	Cooling
Area (ft²)	1671	1671
Volume (ft³)	14204	14204
Air changes/hour	0.10	0.30
Equiv. AVF (cfm)	24	71

Total equipment load	28623 Btuh
Req. total capacity at 0.70% SHR	2.9 ton

Heating Equipment Summary

Make	Trane
Trade	TWX036D
Efficiency	9.1 HSPF
Heating input	34600 Btuh @ 47°F
Heating output	26 °F
Heating temp rise	1200 cfm
Actual heating fan	0.027 cfm/Btuh
Heating air flow factor	
Space thermostat	

Cooling Equipment Summary

Make	Trane
Trade	TWX036D
	TWE037E13
Efficiency	13.0 SEER
Sensible cooling	26200 Btuh
Latent cooling	10800 Btuh
Total cooling	38000 Btuh
Actual cooling fan	1200 cfm
Cooling air flow factor	0.050 cfm/Btuh
Load sensible heat ratio	85 %

Build/Trade values have been manually overridden

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



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1503
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 375-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jefferson, P.O. Box 76
Pittsburgh, KS 66762

Your application for Notice of Acceptance (NOA) of:

Entergy 6-8 S/E Inswing Opaque Double w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.23
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

Premdor Entry Systems

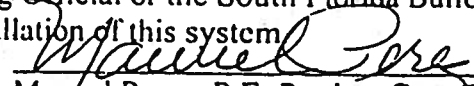
ACCEPTANCE No: 01-0314.23

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
 - 1.1 This renews the Notice of Acceptance No. 00-0321.25 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.
2. **PRODUCT DESCRIPTION**
 - 2.1 The Series Entergy 6-8 S/E Inswing Opaque Double Residential Insulated Steel Doors with Sidelites-Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1029-EM-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11/00, 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. These documents shall hereinafter be referred to as the approved drawings.
3. **LIMITATIONS**
 - 3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.
 - 3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.
4. **INSTALLATION**
 - 4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.
 - 4.2 Hurricane protection system (shutters):
 - 4.2.1 Door: the installation of this unit will not require a hurricane protection system.
 - 4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.
5. **LABELING**
 - 5.1 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".
6. **BUILDING PERMIT REQUIREMENTS**
 - 6.1 Application for building permit shall be accompanied by copies of the following:
 - 6.1.1 This Notice of Acceptance
 - 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
 - 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.23

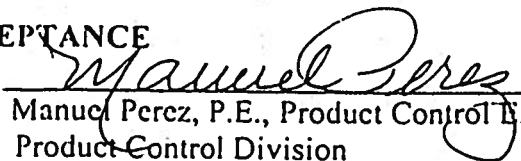
APPROVED : JUN 05-2001

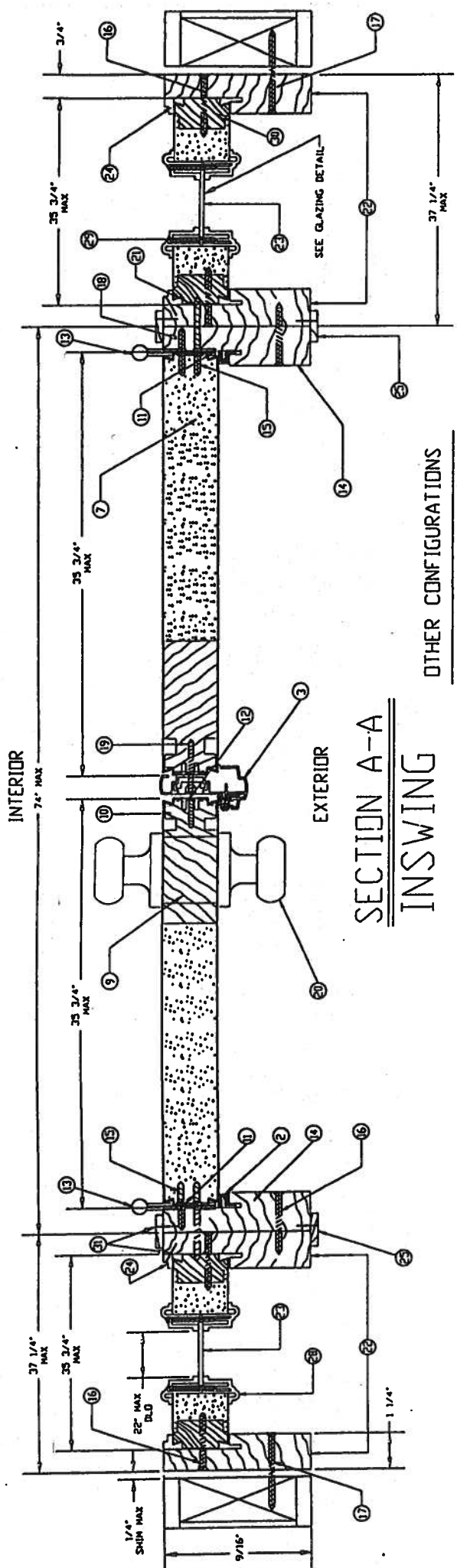
EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

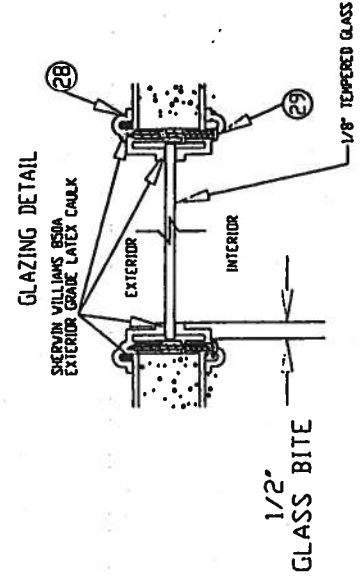
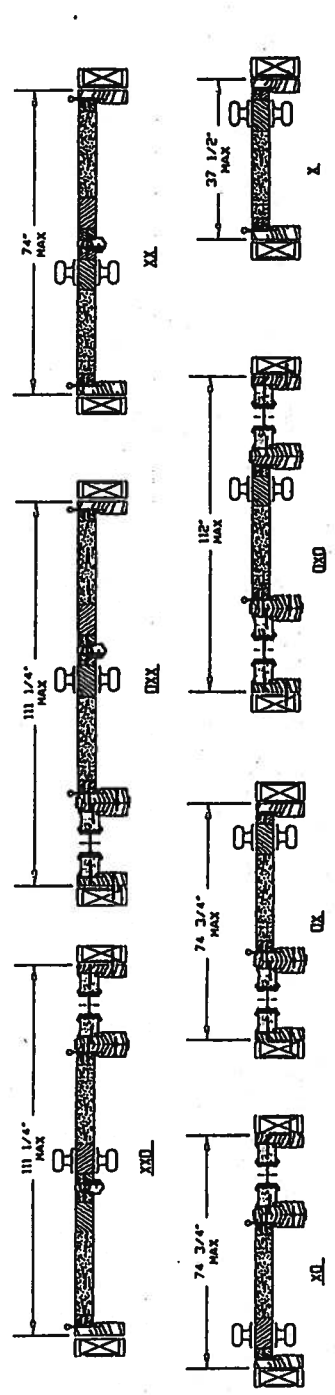
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE


Manuel Perez, P.E., Product Control Examiner
Product Control Division



OTHER CONFIGURATIONS



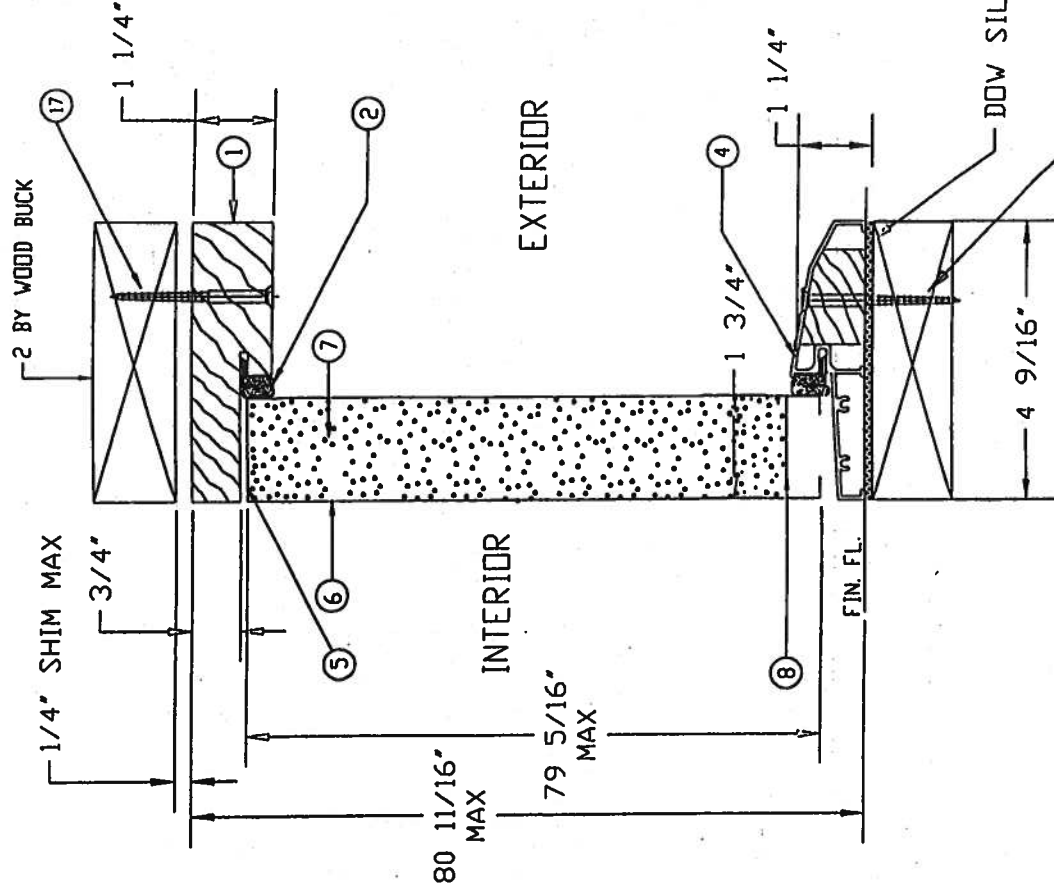
APPROVED AS COMPLYING WITH THE
SCU1111 FILING BUILDING CODE
DATE: JUN 05 2001
BY: [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314-23

C	DATE	DESCRIPTION	BY	APP'D
1	01-03-01	PRELIMINARY	...	...
2	01-03-01	...	...	...
3	01-03-01	...	...	...
4	01-03-01	...	...	...
5	01-03-01	...	...	...
6	01-03-01	...	...	...
7	01-03-01	...	...	...
8	01-03-01	...	...	...
9	01-03-01	...	...	...
10	01-03-01	...	...	...
11	01-03-01	...	...	...
12	01-03-01	...	...	...
13	01-03-01	...	...	...
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15	01-03-01	...	...	...
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19	01-03-01	...	...	...
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24	01-03-01	...	...	...
25	01-03-01	...	...	...
26	01-03-01	...	...	...
27	01-03-01	...	...	...
28	01-03-01	...	...	...

31-1029-EM-1
SHEET 2 OF 6
REVISION C

MATERIALS LIST

ITEM NO.	DESCRIPTION	PART NUMBER	COMMENTS
1	WOOD HEAD JAMB	EM-14	1 1/4" X 4 9/16" MTL TO BE PINE OR EQUIVALENT
2	COMPRESSION WEATHERSTRIP	EM-25	LOCKSCREEN BRAND LIXSEAL 9650-BR (BRONZE)
3	ALUMINUM ASTRAGAL	EM-12	PREMIOR BRAND OR EQUIVALENT - 5/8" ALUMINUM ASTRAGA
4	ALUMINUM-BUMPER THRESHOLD	EM-15	PREMIOR BRAND OR EQUIVALENT - 1 1/4" X 4 9/16"
5	TOP CHANNEL	EM-08	PREMIOR BRAND - 1 11/16" - 20 GA STEEL
6	STEEL SKIN	25 ga. 48" x 108" - 40	SEE DETAIL FOR JOINT AND FINISH
7	POLYURETHANE FOAM CORE	BASF FOAM - DENSITY 2.0 TO 2.5 LBS./FT. ³	
8	BOTTOM CHANNEL	EM-07	PREMIOR BRAND - 1 11/16" - 20 GA STEEL
9	WOOD LOCK BLOCK	EM-09	4" X 9 1/2" MTL TO BE PINE OR EQUIVALENT
10	STRIKE STILE	EM-06	PREMIOR BRAND - 1 11/16" - 20 GA STEEL
11	HINGE STILE	EM-05	PREMIOR BRAND - 1 11/16" - 20 GA STEEL
12	LOCK PREP FILLER PLATE	EM-10	PREMIOR BRAND - .050" THICK - MTL TO BE POLYETHYLEN
13	4"x4" HINGE	EM-16	HAGER BRAND HINGE OR EQUIVALENT - .097 THICK (STEEL
14	WOOD HINGE JAMB	EM-13	1 1/4" X 4 9/16" MTL TO BE PINE OR EQUIVALENT
15	#10-24 x 1/2" F.H.V.S.		(4) SCREWS PER HINGE INTO DOOR
16	#10 x 2" F.H.V.S.		(5) SCREWS THROUGH HINGE JAMB INTO SIBELITE JAMB, 8" DOWN FROM TC (5) SCREWS THROUGH STRIKE JAMB INTO SIBELITE JAMB, 4" DOWN FROM TC (5) SCREWS THROUGH HINGE JAMB INTO SIBELITE JAMB, 4" DOWN FROM TC (5) SCREWS THROUGH STRIKE JAMB INTO SIBELITE JAMB, 4" DOWN FROM TC (5) SCREWS THROUGH EACH SIBELITE JAMB INTO SIBELITE, 4" DOWN FROM TOP, MAX 15" O.C. THEREAFTER
17	NO F.H.V.S. VARIOUS 1 1/2" OVER-SHOT TO 3/16" WITH JACOBS VARIOUS 1 1/2" OVER-SHOT		REFER TO ELEVATION VIEW, FOR # OF SCREWS USED AND LOCATIONS
18	#10 x 3/4" F.H.V.S.		(2) SCREWS PER HINGE INTO JAMB
19	#8 x 2" F.H.V.S.		(2) SCREWS AT EACH STRIKE PLATE
20	LOCKSET		KWIKSET BRAND 200 LOCK OR HARLOC BRAND 100 LOCK
21	#10 x 1 3/4" F.H.V.S.		(2) SCREWS PER HINGE INTO JAMB
22	WOOD SIBELITE JAMB	EM-18	1 1/4" X 4 9/16" MTL TO BE PINE OR EQUIVALENT
23	22" X 64" SINGLE PANEL GLASS	EM-19	TEMPERED GLASS IN POLYPROPYLENE FRAME - DC-1643 - (DDL - 1/2" CLEAR TEMPERED GLASS
24	SIBELITE TRIM (WOOD)	EM-20	5/16" x 1/2" MTL TO BE PINE OR EQUIVALENT
25	WOOD CASING	EM-21	FOR 3/4" MTL TO BE PINE OR EQUIVALENT - THERE ARE HOLDINGS USE FOR SIDE BY SIDE JAMBS AS MULLIONS
26	WOOD SIBELITE HEAD JAMB	EM-22	1 1/4" X 4 9/16" MTL TO BE PINE OR EQUIVALENT
27	WOOD SIBELITE BASE	EM-23	1 1/4" X 4 9/16" MTL TO BE PINE OR EQUIVALENT
28	POLYPROPYLENE LITE FRAME	DC-1643, DDL-2	HP Polypropylene by DDL
29	#6 x 1 1/2" PAN HEAD SCREWS		(18) PER FRAME TO EXCEED 14" OF THERE AFTER
30	SIBELITE STILES	EM-26	15/16" X 1 11/16" MTL TO BE PINE OR EQUIVALENT
31	PIN NAIL		2 1/4" LONG NAIL, 4" IN FROM END, MAX 8" O.C. THEREAFTER, USED ON MULLIONS AND 18"

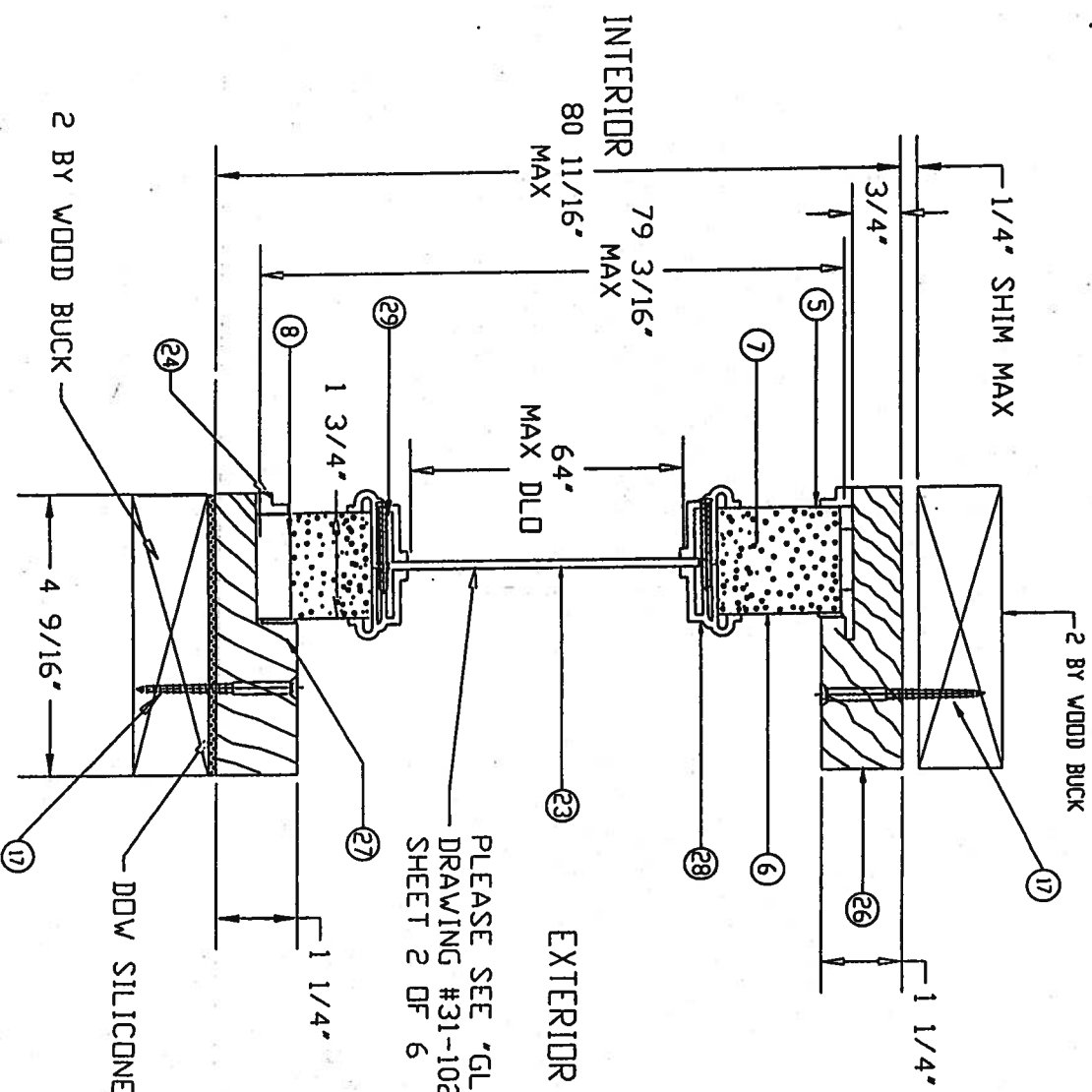


SECTION B-B

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE: JUN 05 2001
BY: [Signature]
PROJECT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0374-23

DOW SILICONE #995

UNITS: UNLESS NOTED, FAB. : DEC : ANG. :		B	DATE COUNTY MODIFICATIONS	12/1/00	J.D.
EXTENSIONS: UNLESS NOTED, STD. COMPL. 10.3		A	ADDED PAGE 5 (DOOR OPTIONS)	10-1-98	R.S.
ENGINEER:		LIR	REVISIONS	DATE	BY
DR. BT. R.S.		DATE 7-29-97	SCALE:		
PREMIOR ENTRY SYSTEMS		31-1029-EM-1		SHEET 3 OF 6	
911 E. JEFFERSON		A		REVISION LETTER B	
PITTSBURGH, KS. 66102					



PLEASE SEE 'GLAZING DETAIL'
DRAWING #31-1029-EM-1
SHEET 2 OF 6

SECTION C-C

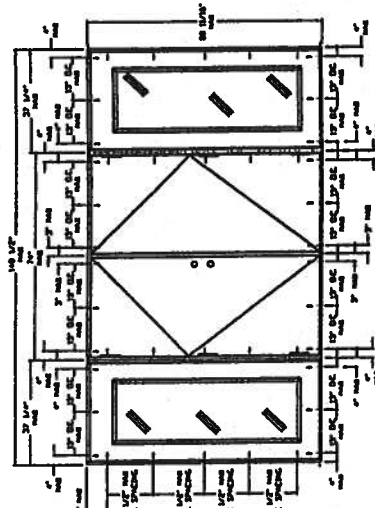
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2005
BY M. J. J. J.
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314-23

DATE	DATE	DATE	DATE	DATE	DATE
7-29-97	7-29-97	7-29-97	7-29-97	7-29-97	7-29-97
DATE	DATE	DATE	DATE	DATE	DATE
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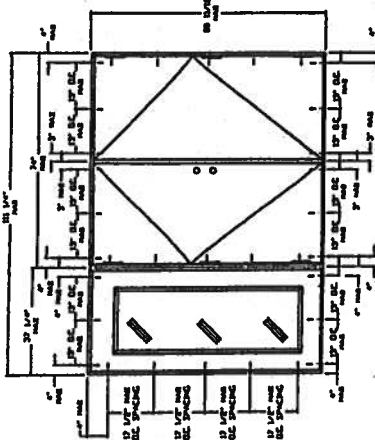
PREMOR ENTRY SYSTEMS
911 E. JEFFERSON
PITTSBURGH, PA 15212

31-1029-EM-1
SHEET 4 OF 6
REVISION LETTER D

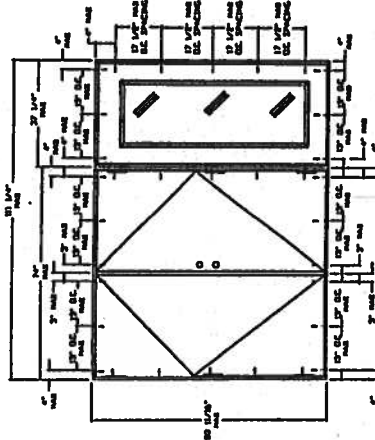
OTHER DOOR CONFIGURATIONS



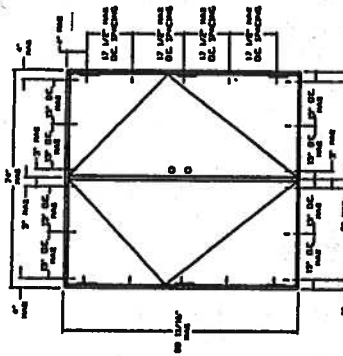
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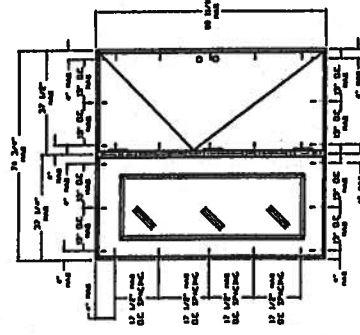
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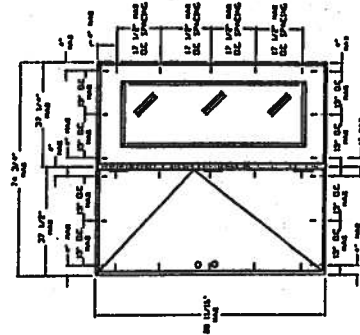
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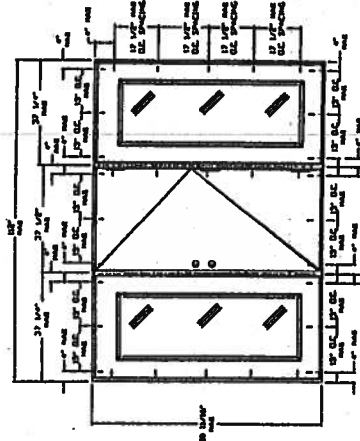
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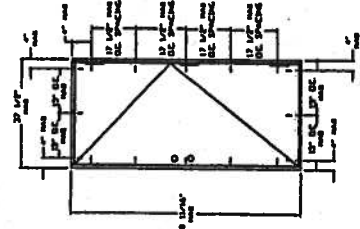
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XD



DXD



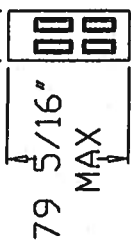
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APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2009
BY *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314-23

LIMITS: UNLESS NOTED, FPM		DATE	ANG
EXTENSIONS: UNLESS NOTED, SEE COMPL. NO. 3			
ENGINEER	DATE	REVISED	DATE BY
SCALE		31-1029-EM-I	
PREMIER ENTRY SYSTEMS		SHEET 5 OF 6	
701 E. JEFFERSON		REVISION LETTER	
PHILADELPHIA, PA 19106			

OTHER DOOR PANEL STYLES

36" MAX



BLANK TOP
4-PANEL



6-PANEL



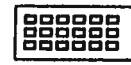
4-PANEL



9-PANEL



10-PANEL



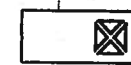
18-PANEL



FLUSH



8-PANEL



CROSSBUCK



12-PANEL



4-PANEL
EYEBROW



5-PANEL
W/SCROLL



5-PANEL
EYEBROW



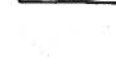
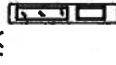
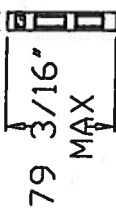
5-PANEL



5-PANEL
EYEBROW

OTHER SIDELITE STYLES

36" MAX



SL-10

SL-20

SL-30

SL-60

SL-50

SL-50B

SL-69A

SL-69B

SL-69C

SL-25

SL-55

SL-30B

SL-40

SL-90A

SL-90B

SL-90C

SL-30B

SL-30C

SL-70

SL-80



PD-1



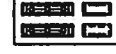
PD-2



PD-3



PD-4



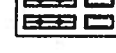
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PD-6



PD-7



PD-8



PD-9



PD-10



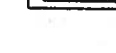
PD-11



PD-12



PD-13



PD-14



PD-15

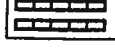


PD-16



PD-17

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY PROJECT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314-2.3



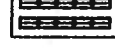
PD-18



PD-19



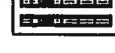
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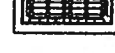
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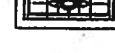
PD-22



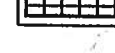
PD-23



PD-24



PD-25



PD-26



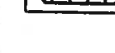
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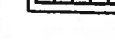
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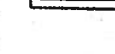
PD-29



PD-30



PD-31



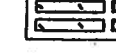
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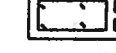
PD-33



PD-34



PD-35



PD-36



PD-37



PD-38



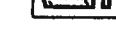
PD-39



PD-40



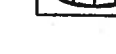
PD-41



PD-42



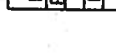
PD-43



PD-43A



PD-43B



UNITS: UNLESS NOTED, FRAC. : DEC. : ANG. :
EXTRUSIONS UNLESS NOTED, STL. COM. 102.3
ENGINEER:
DATE: JUN 12/15/01
SCALE:
PART NAME: PREMOR DOOR OPTIONS
DATE: JUN 12/15/01
BY: J.L.D.
REVISIONS

PREMOR ENTRY SYSTEMS
701 C. JOYCE
PITTSBURGH, PA 15206

31-1029-EM-1
SHEET 6 OF 6

REVISION LETTER

1	DATE	10/10/80	1	DATE	10/10/80
2	NAME	JOHN DOE	2	NAME	JOHN DOE
3	ADDRESS	123 MAIN ST	3	ADDRESS	123 MAIN ST
4	CITY	ANYTOWN	4	CITY	ANYTOWN
5	STATE	CA	5	STATE	CA
6	ZIP	90210	6	ZIP	90210
7	PHONE	555-1234	7	PHONE	555-1234
8	EMAIL	JOHN.DOE@EXAMPLE.COM	8	EMAIL	JOHN.DOE@EXAMPLE.COM
9	DOB	01/01/1950	9	DOB	01/01/1950
10	SSN	123-45-6789	10	SSN	123-45-6789
11	RELIGION	CHRISTIAN	11	RELIGION	CHRISTIAN
12	POLITICAL	DEMOCRAT	12	POLITICAL	DEMOCRAT
13	EDUCATION	BACHELORS	13	EDUCATION	BACHELORS
14	EMPLOYMENT	SOFTWARE ENGINEER	14	EMPLOYMENT	SOFTWARE ENGINEER
15	INCOME	50000	15	INCOME	50000
16	VEHICLE	2015 TOYOTA CAMRY	16	VEHICLE	2015 TOYOTA CAMRY
17	PROPERTY	OWNERSHIP	17	PROPERTY	OWNERSHIP
18	TRAVEL	EUROPE	18	TRAVEL	EUROPE
19	DIET	VEGETARIAN	19	DIET	VEGETARIAN
20	HOBBIES	READING	20	HOBBIES	READING
21	LANGUAGES	SPANISH	21	LANGUAGES	SPANISH
22	SKILLS	PROGRAMMING	22	SKILLS	PROGRAMMING
23	ACHIEVEMENTS	AWARD	23	ACHIEVEMENTS	AWARD
24	REFERENCES	JOHN	24	REFERENCES	JOHN
25	NOTES	ADDITIONAL INFO	25	NOTES	ADDITIONAL INFO

NOTES:

1) WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

2) THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.

3) WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD PENCING.

4) MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.

5) MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR BY WOOD BUCK.

6) ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2" EMBEDMENT INTO WOOD SUBSTRATE OR 3/16" PTH TYPCONS WITH 1 1/2" MINIMUM EMBEDMENT.

7) UNIT MUST BE INSTALLED WITH MIAHI-DAC COUNTY APPROVED SHUTTERS.

8) THREE STAPLES PER SIDE JAMB INTO THRESHOLD AND NO DOOR, THREE STAPLES PER JAMB INTO THRESHOLD AND SIDELITES AND DOOR.

9) LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE JAMBS AND SIDELITES.

10) DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE ORDERS ARE CODED AND BUT JOINED.

11) DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF .08 TO .12 MIL.

12) FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/ WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF .08 TO .12 MIL.

Post	Nega

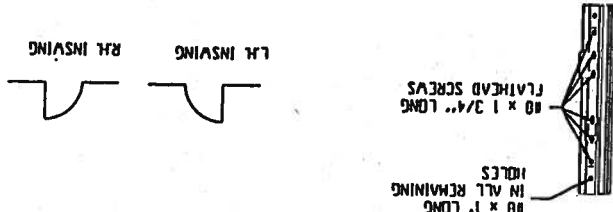
AST

UNIT SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG AND THE SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

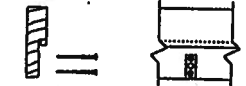
DESIGN PRESSURE RATINGS	
WHERE WATER INFILTRATION REQUIREMENT IS NOT MET	NOT APPROVED *
WHERE WATER INFILTRATION REQUIREMENT IS NOT MET	NOT APPROVED *
Positive	+550.0sf
Negative	-550.0sf

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY *Michael S. King*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314, 23

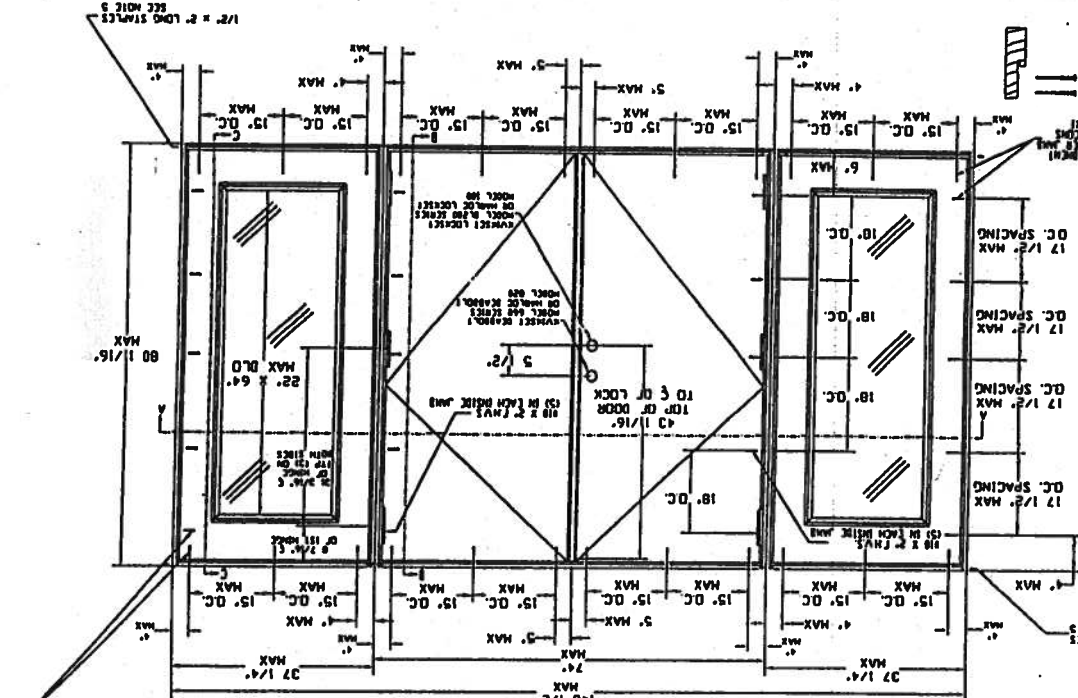
ASTRAGAL



ATTACH ASTRAGAL THRU BOLT
STRIKE PLATE TO THE HEADER
AND THRESHOLD WITH NO. 1 3/4"
FLATHEAD SCREWS



INCHES) MINIMUM 2/1 1/4
SINCE 1/4 HAD 91/2" JAWNS 1/2 W
W 1/4 (5) 1/4 1/4 1/4 1/4 1/4
INCHES) MINIMUM 2/1 1/4 = 1/4

[illegible]

PREMOR (ENERGY BRAND) DOUBLE DOOR
WITH SIDELITES IN WOOD FRAMES
WITH BUMPER THRESHOLD (IN SWING)



FEB - 4 REC'D

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

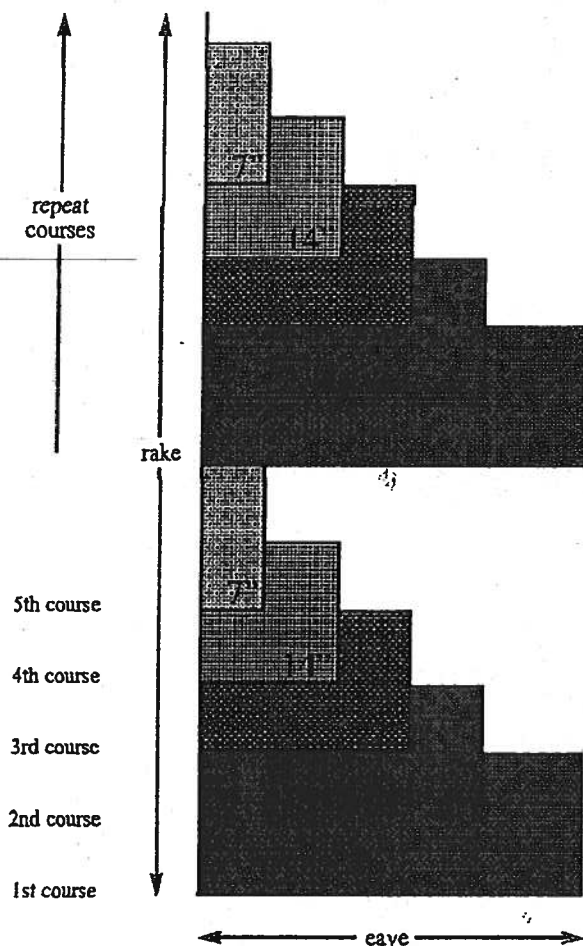
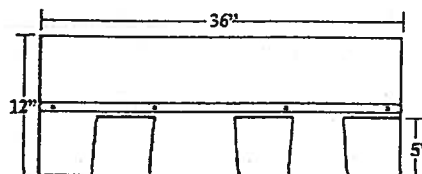
Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

TAMKO Roofing Products, Inc.

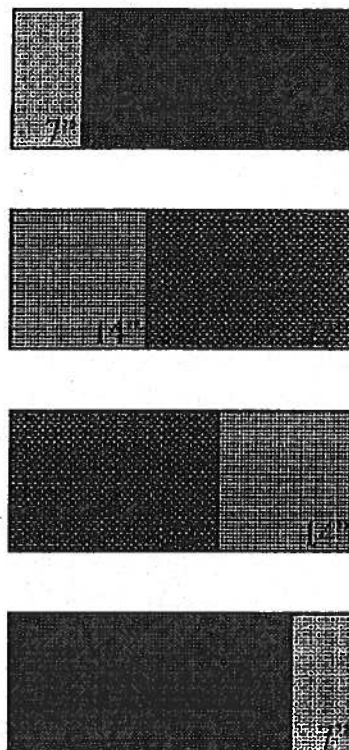


Application Instructions For Heritage® 40 & 30 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	36"
Width	12"
Bundles per Sq.	4
Shingles per Sq.	80
Shingles per Bundle	20
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

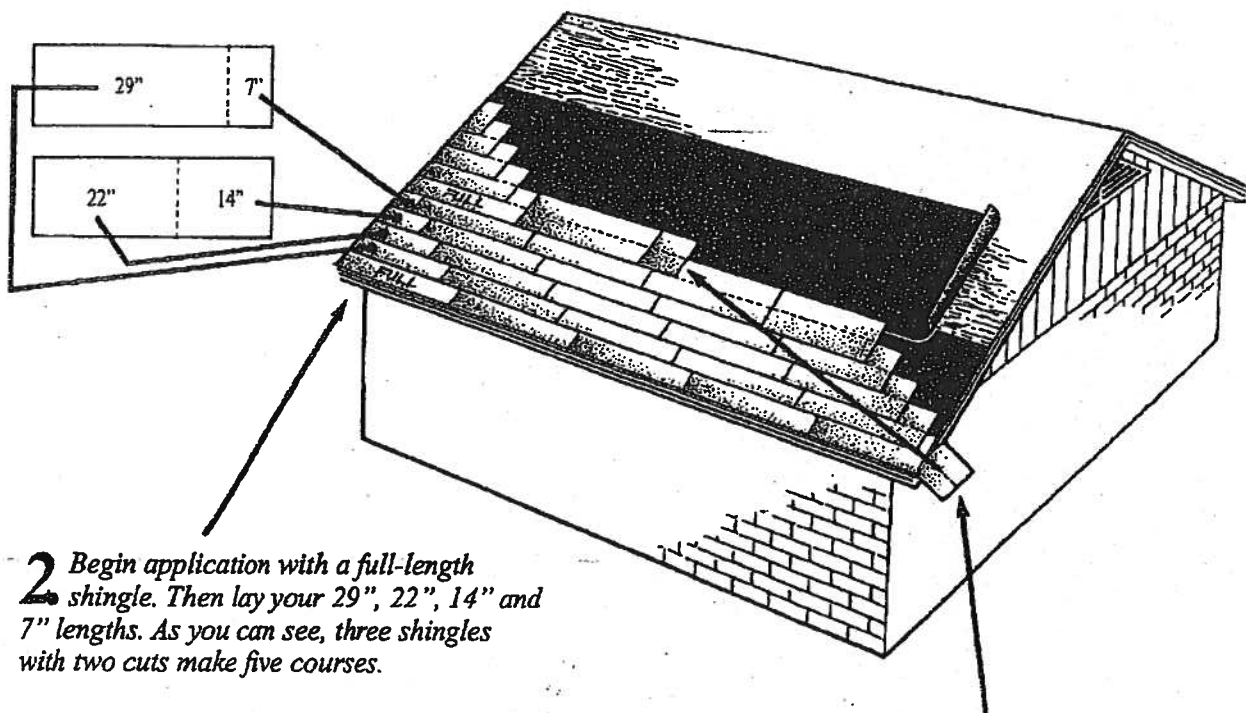
NOTE: These application instructions apply only to Heritage 40, Heritage 30, Heritage 40 AR, and Heritage 30 AR shingles.



Application Instructions For Heritage® 40 & 30 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

1. Cut your first shingle to make a 29" and a 7" length. Cut a second shingle to make a 22" and a 14" length.



2. Begin application with a full-length shingle. Then lay your 29", 22", 14" and 7" lengths. As you can see, three shingles with two cuts make five courses.

3. Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.

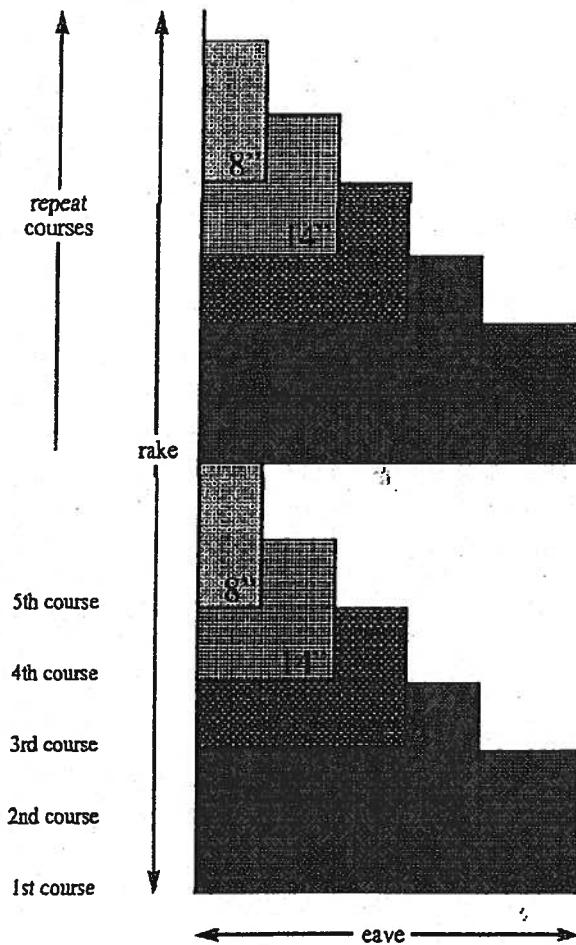
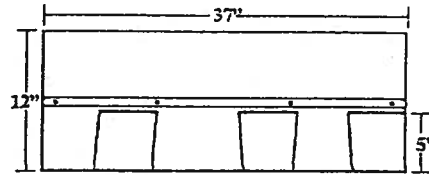


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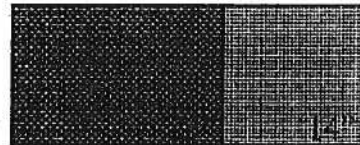
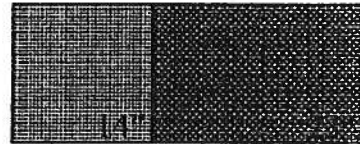


Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"



The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

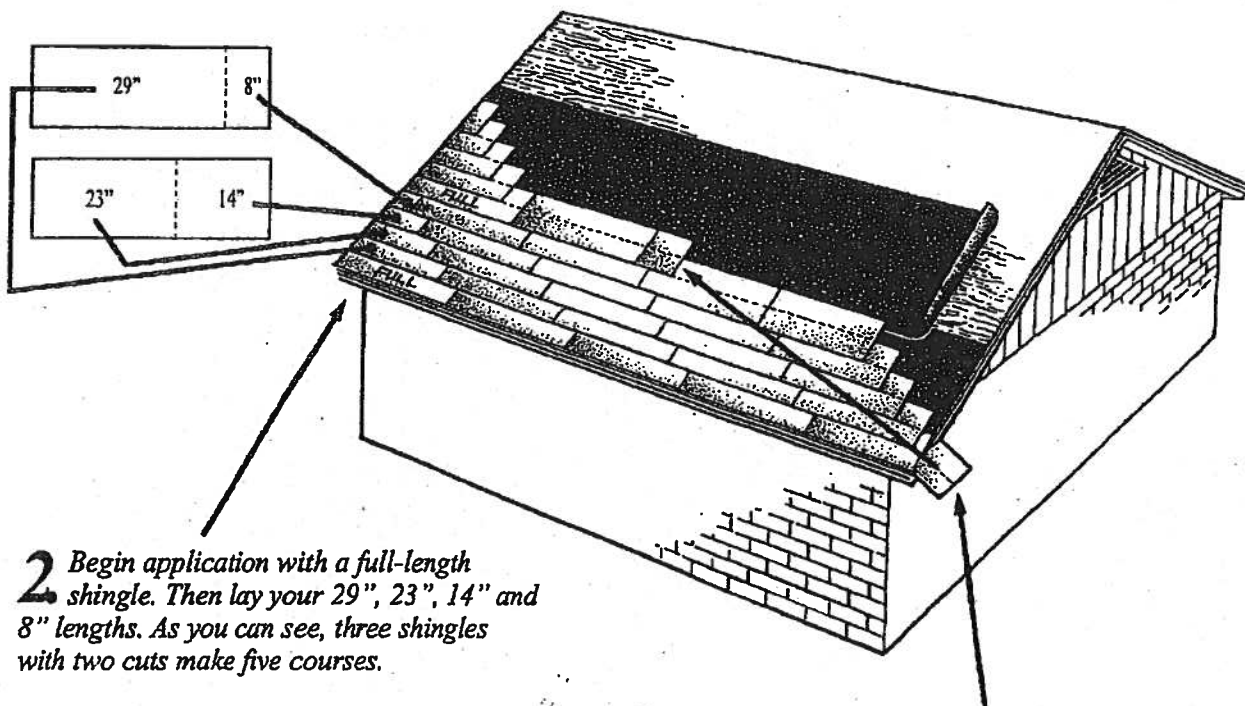
NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.



Application Instructions For Heritage® 25 Series Shingles

With two simple cuts, you can create five courses out of three Heritage shingles with no waste. Fewer cuts mean labor savings and faster application. The TAMKO method also eliminates unsightly zipper patterns. And because you can work any piece over 8" long back into the field of roofing, you'll save money on materials. For the best-looking roof with the least waste, rely on TAMKO and the Heritage Series.

1 Cut your first shingle to make a 29" and an 8" length. Cut a second shingle to make a 23" and a 14" length.



2 Begin application with a full-length shingle. Then lay your 29", 23", 14" and 8" lengths. As you can see, three shingles with two cuts make five courses.

3 Continue working your way across the roof. When you make your final cut at the roof's edge, flip any pieces that are 8" or longer back onto the roof. These pieces can be worked in anywhere without creating zippers or color variations.

NOTE: Do not align joints of shingle courses when working in cut pieces. Joints should be no closer than 4" from one another.



997493



Application Instructions for

- Glass-Seal
 - Glass-Seal AR
 - Elite Glass-Seal®
 - Elite Glass-Seal® AR
- ### THREE-TAB ASPHALT SHINGLES

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

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER. IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

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

1. ROOF DECK

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

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

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

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

2. VENTILATION

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

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

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.

FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.

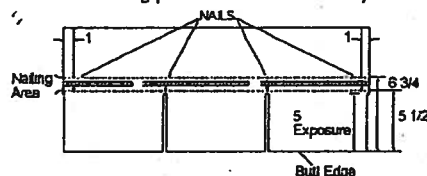
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These

conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

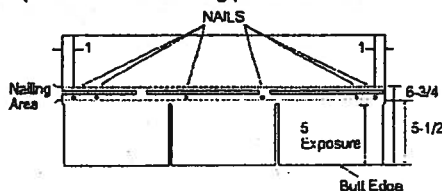
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below).



2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fasteners per shingle. (See Mansard fastening pattern illustrated below.)



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

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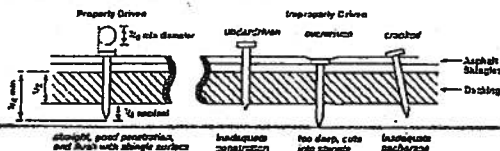
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Western District	5300 East 43rd Ave., Denver, CO 80216	800-530-8868

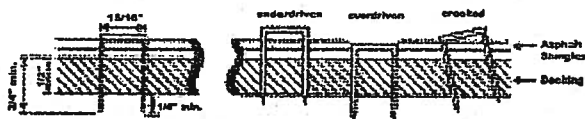
07/01

• **Glass-Seal**
• **Glass-Seal AR**
• **Elite Glass-Seal®**
• **Elite Glass-Seal® AR**
THREE-TAB ASPHALT SHINGLES

into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



STAPLES: If staples are used in the attaching process, follow the above instructions for placement. All staples must be driven with pneumatic staplers. The staple must meet the following minimum dimensional requirements. Staples must be made from a minimum 16 gauge galvanized wire. Crown width must be at least 15/16 in. (staple crown width is measured outside the legs). Leg length should be a minimum of 1-1/4 in. for new construction and 1-1/2 in. for reroofing thus allowing a minimum deck penetration of 3/4 in. The crown of the staple must be parallel to the length of the shingle. The staple crown should be driven flush with the shingle surface. Staples that are crooked, underdriven or overdriven are considered improperly applied.



CAUTION: DO NOT FASTEN INTO THE FACTORY APPLIED ADHESIVE.

4. UNDERLAYMENT

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

Products which are acceptable for use as underlayment are:

- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I
- Any TAMKO non-perforated asphalt saturated organic felt

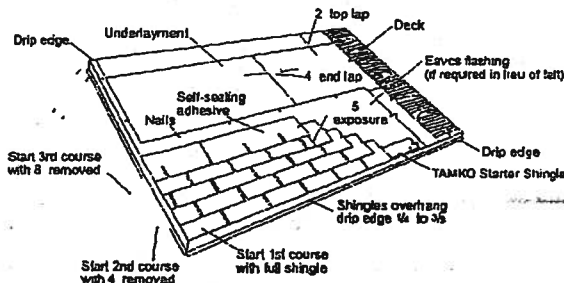
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or domers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.

TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: A starter course may consist of TAMKO Shingle Starter, self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. Attach the starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eaves edge. The starter course should overhang both the eaves and rake edges 1/4 in. to 3/8 in. If a roll roofing is used, seal down the shingles in the first course by applying adhesive cement in four spots equally spaced to the surface of the starter strip and press the shingle down on the spots of cement. Plastic cement should be used sparingly, as excessive amounts may cause blistering.

SHINGLE APPLICATION: There are three different offset methods for applying strip shingles: the 4-inch method, the 5-inch method and the 6-inch method. By removing different lengths from the first shingle, cutouts in one course of shingles do not line up directly with those of the course below. It is recommended that the shingles be laid according to one of these methods consistent with procedures outlined in ARMA's Residential Asphalt Roofing Manual. This panel will feature the 4-inch method. For information regarding the other methods, please refer to the ARMA Residential Asphalt Roofing Manual. **CAUTION:** Never use an alignment system where shingle joints are closer than 4 in. to one another.



6. LOW SLOPE APPLICATION

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

7. HANSARD ROOF OR STEEP SLOPE ROOF

If the slope exceeds 21 in. per foot (60°), each shingle must be sealed

(Continued)

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• Glass-Seal • Glass-Seal AR

• Elite Glass-Seal® • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a \$.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

9. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

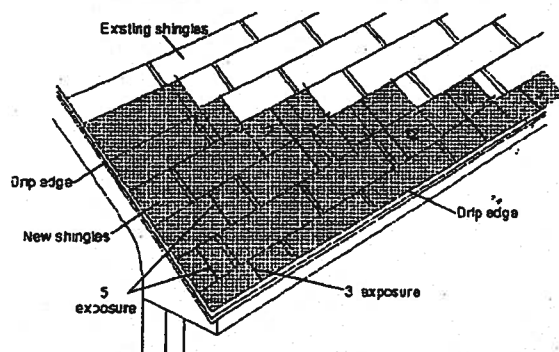
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the



rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

9. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50 lb. roll roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

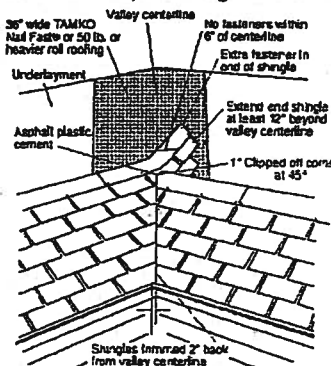
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

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

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

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(CONTINUED from Pg. 3)

- Glass-Seal
- Glass-Seal AR

- Elite Glass-Seal®
- Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

10. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

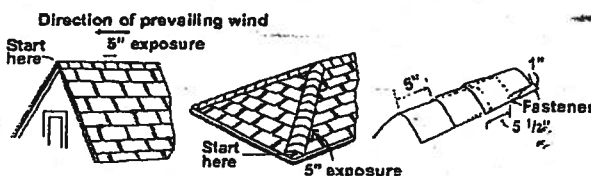
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

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

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

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



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

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

Visit Our Web Site at
www.tamko.com

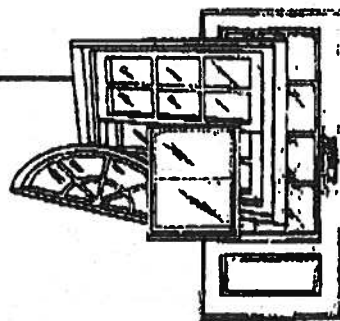
Central District	220 West 4th St., Joplin, MO 64801
Northeast District	4500 Tamko Dr., Frederick, MD 21701
Southeast District	2300 35th St., Tuscaloosa, AL 35401
Southwest District	7910 S. Central Exp., Dallas, TX 75216
Western District	5300 East 43rd Ave., Denver, CO 80216

800-641-4691
800-368-2056
800-228-2656
800-443-1834
800-530-8868

07/01

CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822
(407) 384-7744 • Fax (407) 384-7751
Web Site: www.ctlarch.com
E-mail: ctlarch.com



Report Number: CTLA-991W-1-AWT
Report Date: February 18, 2003

STRUCTURAL PERFORMANCE TEST REPORT

Client: ACTION WINDOOR TECHNOLOGY INC.
1312 W. CROSBY ROAD
CARROLLTON, TX 75006

Product Type and Series: AWT Series 3950 Vinyl Fin Frame Single Hung Window with Reinforced Sash Top Rail, Stiles & Meeting Rail H-R40 (36" x 72")

Test Specifications: AAMA/NWDA 101/LS-2-97 "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors"

Frame: Vinyl Fin frame measured 35.50" wide x 71.50" high overall. Mitered corner weld construction. Fixed meeting rail secured to each frame jamb with one (1) #8 x 2" PH., PH. screw.

Ventilator: Operable sash measured 33.375" wide x 35.25" high overall. Mitered corner weld construction. Clear lite measured 31.5625" high x 33.5625" high. Fixed lite measured 32.50" wide x 33.4375" high.

Weather Stripping: One (1) strip of woolpile .220" high with integral plastic fin frame sill. One (1) strip of woolpile .250" high with integral plastic fin sash top rail exterior. One (1) strip of woolpile .250" high each sash stile exterior leg. One (1) strip of woolpile .250" high with integral plastic fin each sash stile interior leg. One (1) strip of foam filled bulb weatherstrip sash bottom rail.

Hardware & Location: Two (2) metallic sweep locks located on sash top rail approx 8" from each end of rail. Two (2) metallic keepers located on fixed meeting rail. One (1) tilt latch at each end of sash top rail. One (1) block and tackle at each frame jamb. One (1) pivot bar at each end of sash bottom rail.

Glazing: 5/8" insulated annealed glass consisting of .125" glass .375" air space with swiggle .125" glass. Sash exterior glazed. Fixed lite interior glazed adhesive foam strip backbedding and vinyl snap in glazing bead.

Sealant: A silicone type sealant was used on sill and to seal specimen to test buck.

Weep System: Weep notch measuring 2.25" x leg height located each end of sill weeping to the exterior.

Muntins: N/A

Reinforcement: Fixed meeting rail has one (1) piece of extruded aluminum reinforcement measuring .662" wide x .755" high x .099" thick x full length. Top rail, and sash stiles has one (1) piece of extruded aluminum reinforcement measuring .590" wide x .995" high x .115" thick x full length.

Additional Description: N/A

Screen: Roll formed aluminum frame, fiberglass mesh with vinyl spline. Two (2) metallic retainer clips and two (2) metallic plungers. Corners secured with plastic corner keys

Installation: Twenty-six (26) 1.75" roofing nails were used to secure the specimen to the wood test buck. Five (5) were located in head and sill measuring 4", 13", 21", 29", and 33" from left jamb. Eight (8) were located in each jamb measuring 4.50", 14.25", 24", 32.75", 42", 57.25", 60.50" and 70" from sill.

Surface Finish: White Vinyl

Comment: Nominal 2 mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

Performance Test Results

Paragraph No	Title of Test	Method	Measured	Allowed
2.1.2	Air Infiltration @ 1.57 psf	ASTM E283-91	.18 cfm/ft ²	.34 cfm/ft ²
The tested specimen meets or exceeds the performance levels specified in AAMA/NWDA 101/15.2-97. Results recorded in two (2) decimals at the clients request. Unit tested with shims installed under cam locks.				
2.1.3	Water Resistance @ 5.0 gph/ft ²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6.75 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
Unit tested with insect screen.				
2.1.3	Water Resistance @ 5.0 gph/ft ²	ASTM E547-93 Four (4) five (5) minute cycles	No Entry	No Entry
	WTP= 6 psf	ASTM E331-93 Fifteen (15) minute duration	No Entry	No Entry
Unit tested without insect screen.				
2.1.4.2	Uniform Load Structural Permanent Deformation @ 60 psf positive @ 60 psf negative	ASTM E330-90 Ten (10) second load	.015" .005"	.134" .134"
2.1.8	Forced Entry Resistance	AAMA 1302.5-76		
	Test A		0"	1/4"
	Test B		0"	1/4"
	Test C		0"	1/4"
	Test D, E and F		0"	1/4"
	Test G		0"	1/4"

Performance Test Results (continued)

<u>Paragraph No</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>
2.2.2.5.1	Operating Force Sash	AAMA/NWWDA 101/IS.2-97	18 lbs.	30 lbs.
2.2.2.5.2	Deglazing Top Rail 70 lbs. Bottom Rail 70 lbs. Left Side 50 lbs. Right Side 50 lbs.	ASTM E987-88	.039" = 7.8%<100% .038" = 7.6%<100% .050" = 10%<100% .035" = 7.0%<100%	
2.1.7	Welded Corner Test	AAMA/NWWDA 101/IS2-97	Passed	

Test Date November 21, 2002

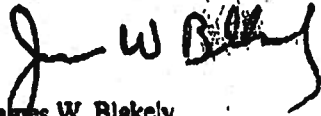
Test Completion Date: November 21, 2002

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.


James W. Blakely
Vice President
Architectural Division

cc: Action Window Technology Inc. (3)
File (1)

Report Number: ETC-04-034-14644.0
Test Start Date: 04/10/03
Test Finish Date: 03/16/04
Report Date: 03/18/04
Expiration Date: 03/18/08

Penetration Structural Test Report
Rendered To:

Vinyl Building Products, Inc.
One Raritan Road
Oakland, NJ 07436

Series/Model
2900 Horizontal Slider (OX)

Description: The product tested was a vinyl Horizontal Sliding window. The test specimen was glazed with 5/8-inch thick insulating glass units constructed with double strength annealed glass. The frame size was 69 inches wide by 48 inches high by 2-3/4 inches deep. See Appendix A.

Test Specification: ANSI/AAMA/NWDA 101/I.S.2

Summary of Results

Overall Design Pressure	35.0 psf
Air Leakage Rate	0.18 scfm/ft ²
Maximum Water Pressure Achieved	5.25 psf
Maximum Structural Pressure Achieved	60.0 psf
Forced Entry Resistance - (ASTM)	Grade 10

Product Designation **H-R35 69 x 48**

Specifications: The test specimen was evaluated in accordance with ANSI/AAMA/NWDA 101/I.S.2 "Voluntary Specification for Aluminum, Vinyl and Wood Windows and Glass Doors". Sections 1, 2 and 4 only. All performance specifications in this standard shall be met for full compliance to the standard and for product certification, labeling or represented as conforming to this standard.

Referenced Test Reports: NONE

Note - The test data in any section below with an "RTR" comment have not been obtained from this specimen but from the Referenced Test Report with a specimen of the same or larger size and identical construction.

Design Pressure (DP): The product tested herein has been first evaluated to the Gateway pressure in the referenced specification for the performance class rating achieved.

Gateway Performance Tests

<u>Specification Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
2.1.2	<u>Air Infiltration - ASTM E283</u> Test Pressure - 1.57 psf The tested specimen exceeds the performance levels specified in ANSI/AAMA/NWDA 101/I.S.2 for air infiltration.	0.18 scfm/ft ²	0.30 scfm/ft ²
2.1.3	<u>Water Resistance - ASTM E547</u> 5 gal/hr-ft ² - 4 Test cycles - 24 Minutes Design Pressure - 15.0 psf Test Pressure - 2.86 psf With and Without Screen	Pass	No Leakage
2.1.4.2	<u>Uniform Structural Load - ASTM E330</u> Design Pressure - 15.0 psf Test Pressure Positive Load - 22.5 psf (150% x DP) Negative Load - 22.5 psf (150% x DP) Note: Measurement taken after load from center of the meeting stile	0.033 in. 0.020 in.	0.177 in. 0.177 in.
2.1.7	<u>Corner Weld</u> Frame - 4 Corners Sashes - 4 Corners	Pass Pass	< 100% < 100%
2.1.8	<u>Forced Entry Resistance - ASTM F588</u> Lock/Tool Manipulation Tests A1 through A7 Lock/Tool Manipulation	Pass Pass Pass	No Entry No Entry No Entry
2.2.1.6.1	<u>Operating Force - No Standardized Method</u> Right Sash - Open/Close	18/18 lbf	20 lbf
2.2.1.6.2	<u>Deglazing - ASTM E987</u> Right Sash: Left Stile - 70 lbf Right Stile - 70 lbf Top Rail - 50 lbf Bottom Rail - 50 lbf	0.0% 0.0% 0.0% 0.0%	<100% <100% <100% <100%

Optional Performance Tests

The manufacturer specified herein has successfully achieved all the required criteria in Section 2 of the referenced specification for the Gateway size of the achieved Performance Rating and has further successfully tested the product to higher performance levels as indicated below.

Design Pressure (DP): The product tested herein has been additionally evaluated to the Design Pressure referenced below.

<u>Specification Paragraph</u>	<u>Title of Test</u>	<u>Results</u>	<u>Allowed</u>
4.3	<u>Water Resistance - ASTM E547</u> 5 gal/hr-ft ² - 4 Test cycles - 24 Minutes Design Pressure - 35.0 psf Test Pressure - 5.25 psf (15% x DP) With and Without Screen	Pass	No Leakage
4.4	<u>Uniform Structural Load - ASTM E330</u> Design Pressure - 40.0 psf Test Pressure Positive Load - 60.0 psf (150% x DP) Negative Load - 60.0 psf (150% x DP) Note: Measurement taken after load from center of meeting stile	0.069 in. 0.066 in.	0.177 in. 0.177 in.

Conditions, Terms, and General Notes Regarding These Tests

The product tested Has Been compared to the detailed drawings, bill of materials and fabrication information supplied by the client so named herein. Our analysis, which includes dimensional and component description comparisons, indicate the tested product and engineering information supplied by the client "Are Equivalent". See Appendix A. The report and representative samples will be retained for four years from the date of initial test.

These test results were obtained by employing all requirements of the designated test methods with no deviations. The test results and specimen supplied for testing are in compliance with the referenced specifications.

The test results are specific to the product tested by this laboratory and of the sample supplied by the client named herein, and they relate to no other product either manufactured by the client, a Fabricator of the client or of installed field performance.

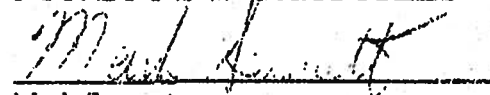
This report does not constitute an AAMA or NWWDA certified product under the certification programs of these organizations. The program administrator of these programs and organizations may only grant product certification.

ETC Laboratories makes no opinions or endorsements regarding this product and its performance. This report may not be reproduced or quoted in partial form without the expressed written approval of ETC Laboratories.

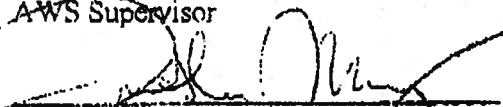
No conclusions of any kind regarding the adequacy of the glass in the test specimen may be drawn from the test. Procedure "A" in ASTM E330 was used for this test.

ETC Laboratories letters, reports, its name or insignia or mark are for the exclusive use of the client so named herein and any other use is strictly prohibited. The report, letters and the name of ETC Laboratories, its seal or mark shall not be used in any circumstance to the general public or in any advertising.

Limitation of Liability: Due diligence was used in rendering this professional opinion. By acceptance of this report, this client agrees to hold harmless and indemnify ETC Laboratories, its employees and offices and owners against all claims and demands of any kind whatsoever, which arise out of or in any manner connected with the performance of work referred to herein.

FOR ETC LABORATORIES


Mark Sennett
AWS Supervisor



Arthur Murray, VP
Manager, Wind Engineering Laboratory

TEST REPORT

ETC Laboratories

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 ONE (1) AND TWO (2) FAMILY DWELLINGS ALL REQUIREMENTS ARE SUBJECT TO CHANGE EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

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

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

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☒	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☒	☐	<u>Site Plan including:</u> a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☒	☐	<u>Wind-load Engineering Summary, calculations and any details required</u> a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure - If more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☐	☐	<u>Elevations including:</u> a) All sides b) Roof pitch c) Overhang dimensions and detail with attic ventilation d) Location, size and height above roof of chimneys e) Location and size of skylights f) Building height g) Number of stories

Floor Plan Including:

- a) Rooms labeled and dimensioned
- b) Shear walls
- c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- f) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan Including:

- a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling
- d) Location of any vertical steel

Roof System:

- a) Truss package including:
 - 1. Truss layout and truss details signed and sealed by FI. Pro. Eng.
 - 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
 - 1. Rafter size, species and spacing
 - 2. Attachment to wall and uplift
 - 3. Ridge beam sized and valley framing and support details
 - 4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections Including:

- a) Masonry wall
 - 1. All materials making up wall
 - 2. Block size and mortar type with size and spacing of reinforcement
 - 3. Lintel, tie-beam sizes and reinforcement
 - 4. Gable ends with rake beams showing reinforcement or gable truss and wall brace details
 - 5. All required connectors with uplift rating and required number and size of fastener for continuous tie from roof to foundation
 - 6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system materials, manufacturer, fastening requirements and product evaluation with resistance rating)
 - 7. Fire resistant construction (if required)
 - 8. Fireproofing requirements
 - 9. Shoe type of termite treatment (termicide or alternative method)
 - 10. Slab on grade
 - a. Vapor retardant (8mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
 - 11. Indicate where pressure treated wood will be placed
 - 12. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termicide or alternative method)
11. Slab on grade
 - a. Vapor retardant (6Mil. Polyethylene with joints lapped 6 inches and sealed
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide Insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

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

Floor Framing System:

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment
- g) Arc Fault Circuits (AFCI) in bedrooms

HVAC Information

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

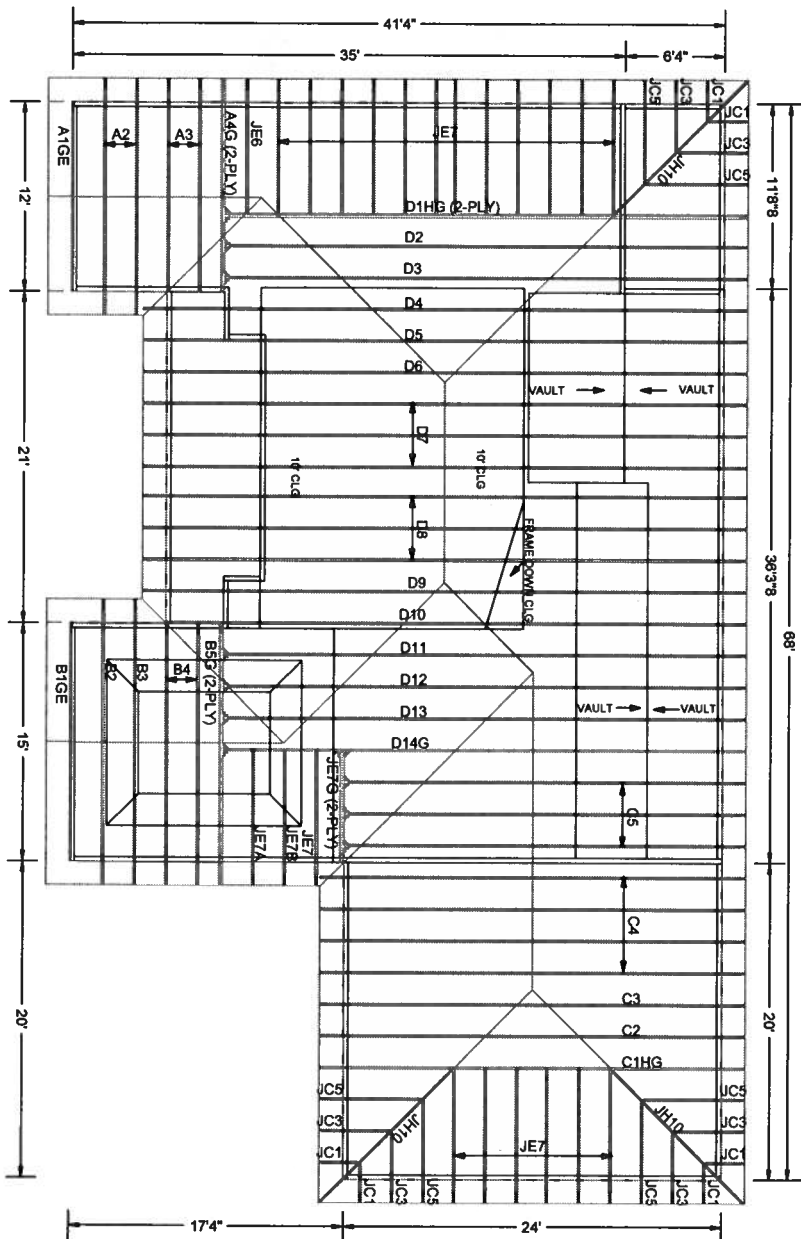
Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

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

Private Potable Water

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used



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

ROOF PITCH: 6/12
CLG PITCH: 3/12
OVERHANG: 18" PLUMB CUT
LOADING: 40 PSF TL/SHINGLE
WIND LOAD: 110 MPH ENCLOSURE
EXT WALLS: 2x4 FRAMING
DATE: 4-5-08

Roof Plane Sheathing Area = 3011 sq. ft.
Gable Sheathing Area = 47 sq. ft.
Total Sheathing Area = 3058 sq. ft.
Fascia Material = 247 linear ft.
Valley Plastering Material = 45 linear ft.
Ridge Cap Material = 91 linear ft.
Hip Ridge Material = 111 linear ft.

NOTES:
ALL GABLE END TRUSSES HAVE A
DROPPED TOP CHORD FOR 2x4 OUTLOOKERS
ALL VALLEYS TO BE CONV. FRAMED
ALL CLOS @ 8" UNLESS NOTED OTHERWISE

Job Name: Udell Residence
Customer: Stanley Crawford Const.
Designer: Chris McCall

JOB NO:
3389

PAGE NO:
1 OF 1

Notice of Treatment

11918

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: DAIA NW
City LC Phone 752 1703

Site Location: Subdivision N/A
Lot # N/A Block# N/A Permit # 24388
Address 193 NE Rifle CT

<u>Product used</u>	<u>Active Ingredient</u>	<u>% Concentration</u>
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☒ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☒ Wood

<u>Area Treated</u>	<u>Square feet</u>	<u>Linear feet</u>	<u>Gallons Applied</u>
<u>Dwelling</u>	<u>2338</u>	<u>538</u>	<u>4.5</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

5-15-06 0815 F254
Date Time Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



COLUMBIA COUNTY OFFICE OF CIVIL ENGINEERING

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 35-3S-17-07313-000

Building permit No. 000024388

Use Classification SFD/UTILITY

Fire: 11.84

Permit Holder WM. STANLEY CRAWFORD

Waste: 24.50

Owner of Building STACY L. UDELL

Total: 36.34

Location: 193 NE RIFLE COURT, LAKE CITY, FL

Date: 08/21/2006



[Signature]

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1SW4215-Z0505142453

Truss Fabricator: W.B. Howland
Job Identification: 3389-/Udell Residence /Stanley Crawford Const. -- LAKE CITY, FL
Truss Count: 37
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.24.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed



Notes:

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

Seal Date: 04/05/2006

-Truss Design Engineer-
James F. Collins Jr.

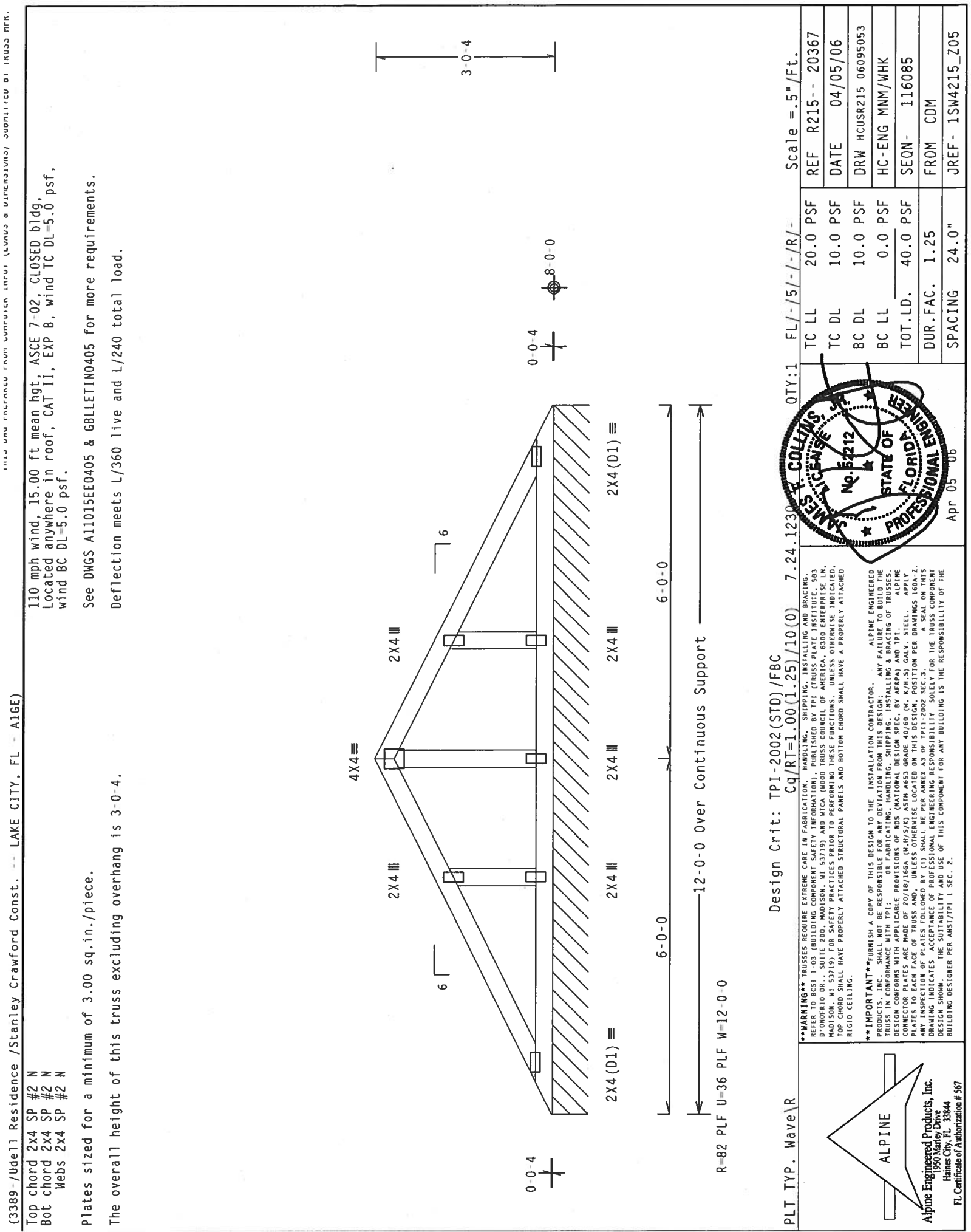
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Details: A11015EE-GBLLETIN-BRCLBSUB-

#	Ref	Description	Drawing#	Date
1	20367--A1GE		06095053	04/05/06
2	20368--A2		06095039	04/05/06
3	20369--A3		06095040	04/05/06
4	20370--A4G (2-PLY)		06095069	04/05/06
5	20371--B1GE		06095054	04/05/06
6	20372--B2		06095041	04/05/06
7	20373--B3		06095042	04/05/06
8	20374--B4		06095043	04/05/06
9	20375--B5G (2-PLY)		06095070	04/05/06
10	20376--C1HG		06095071	04/05/06
11	20377--C2		06095044	04/05/06
12	20378--C3		06095045	04/05/06
13	20379--C4		06095046	04/05/06
14	20380--C5		06095055	04/05/06
15	20381--D1HG (2 PLY)		06095074	04/05/06
16	20382--D2		06095056	04/05/06
17	20383--D3		06095057	04/05/06
18	20384--D4		06095058	04/05/06
19	20385--D5		06095059	04/05/06
20	20386--D6		06095060	04/05/06
21	20387--D7		06095061	04/05/06
22	20388--D8		06095062	04/05/06
23	20389--D9		06095063	04/05/06
24	20390--D10		06095064	04/05/06
25	20391--D11		06095065	04/05/06
26	20392--D12		06095066	04/05/06
27	20393--D13		06095067	04/05/06
28	20394--D14G		06095072	04/05/06
29	20395--JC1		06095068	04/05/06
30	20396--JC3		06095047	04/05/06
31	20397--JC5		06095048	04/05/06
32	20398--JE6		06095049	04/05/06
33	20399--JE7		06095050	04/05/06
34	20400--CF7A		06095051	04/05/06
35	20401--CF7B		06095052	04/05/06
36	20402--CF7C		06095073	04/05/06

#	Ref	Description	Drawing#	Date
37	20403--JH10		06095007	04/05/06





(3389-/Udell Residence /Stanley Crawford Const. -- LAKE CITY, FL - A16E)

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

Plates sized for a minimum of 3.00 sq.in./piece.
The overall height of this truss excluding overhang is 3'-0"-4".

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

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

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

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

PLT TYP. Wave\R

Scale = .5" / Ft.
REF R215-- 20367
DATE 04/05/06
DRW HCUSR215 06095053
HC-ENG MNM/WHK
SEQN- 116085
FROM CDM
JREF- 1SW4215_Z05

QTY: 1 FL/- /5/- /- /R/-

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"

APR 05 2006
No. 5212
JAMES COLLINS, JR.
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2010/16GA (M-H/SX) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH CHORD AND TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, SHALL BE LOCATED PER DRAWINGS (60X-2). 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 ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2010/16GA (M-H/SX) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH CHORD AND TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, SHALL BE LOCATED PER DRAWINGS (60X-2). 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.

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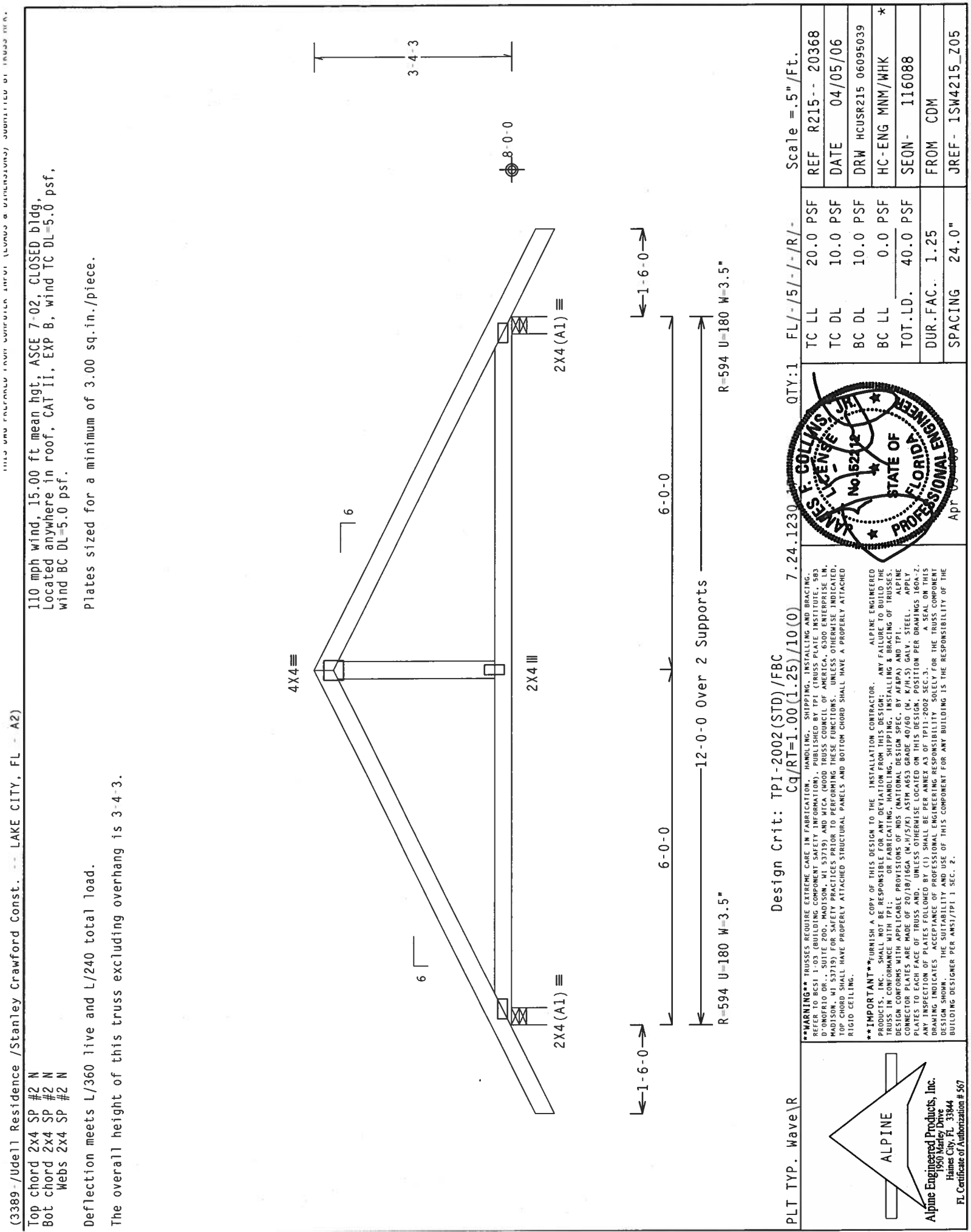
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(3389-UDell Residence /Stanley Crawford Const. -- LAKE CITY, FL - A2)

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

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

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

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

Plates sized for a minimum of 3.00 sq.in./piece.

Scale = 5" / Ft.

QTY: 1

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

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-- 20368

DATE 04/05/06

DRW HCUR215 06095039

HC-ENG MNM/WHK

SEQN- 116088

FROM CDM

JREF- 1SW4215.Z05

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

PLT TYP. Wave\R

ALPINE

Alpine Engineered Products, Inc.

1950 Manley Drive

James City, FL 33844

FL Certificate of Authorization # 597

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) 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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (N.H/S/K) ASTM A653 GRADE 40/60 (N. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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.

APR 05 2006

PROFESSIONAL ENGINEER

STATE OF FLORIDA

NO 152112

F. COLLINS

APR 05 2006

PLT TYP. Wave\R

ALPINE

Alpine Engineered Products, Inc.

1950 Manley Drive

James City, FL 33844

FL Certificate of Authorization # 597

PLT TYP. Wave\R

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Alpine Engineered Products, Inc.

1950 Manley Drive

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ALPINE

Alpine Engineered Products, Inc.

1950 Manley Drive

James City, FL 33844

FL Certificate of Authorization # 597

(3389- /Ude11 Residence /Stanley Crawford Const. -- LAKE CITY, FL - A3)

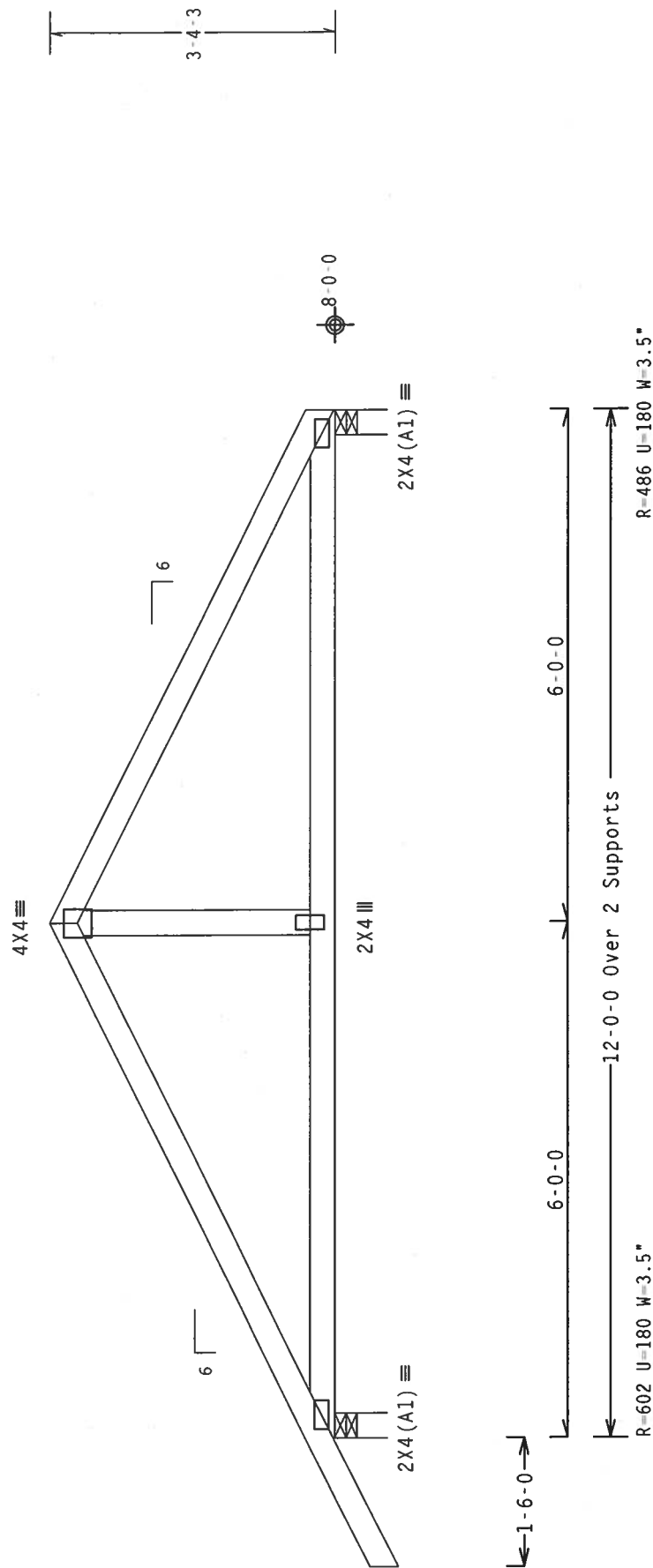
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

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.

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

Plates sized for a minimum of 3.00 sq.in./piece.

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

Design Crit: $\text{TPI} - 2002(\text{STD}) / \text{FBC}$
 $\text{Ca} / \text{RT} = 1.00(1.25) /$

PLT TYP. Wave\ R

Scale = .5"/Ft.

[illegible]

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

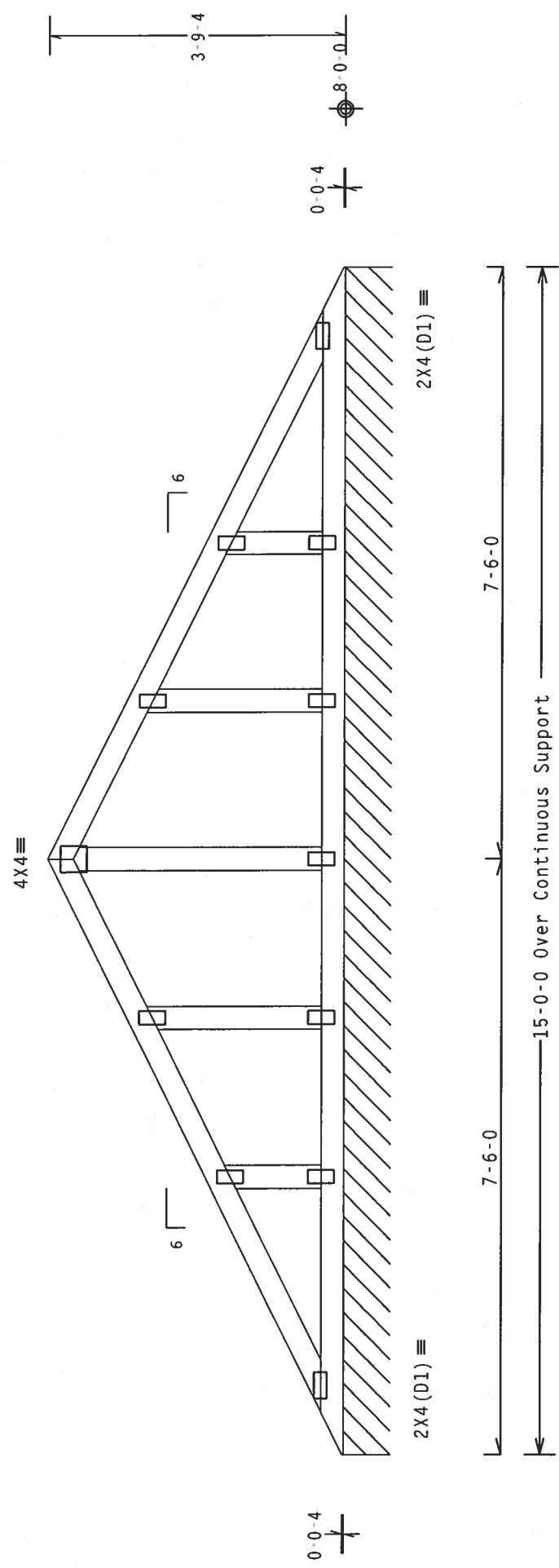
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Plates sized for a minimum of 3.00 sq.in./piece.

See DWGS A11015EE0405 & GBLLLETIN0405 for more requirements.

The overall height of this truss excluding overhang is 3-9-4.

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



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

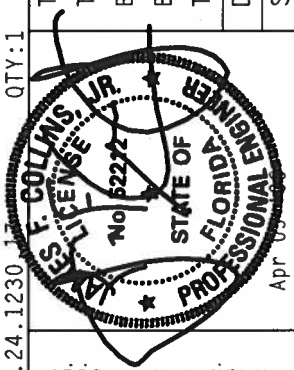
PLT TYP. Wave/R

QTY:1 FL/-/5/-/-/R/-/-

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'OONERIO DR., SUITE 200, MADISON, WI 53719), AND MCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

*****IMPORTANT*****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE ALPINE ENGINEERED PRODUCTS SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS CONFORMING TO THE APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AISC) AND TRILING DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AISC) AND TRILING CONNECTOR PLATES ARE MADE OF 2018/16GA. UN-TH/5/KA ASTM A563 GRADE 40 (60 / 4 / H.S.) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, IN-H/S/KA. POSITION PER DRAWINGS 160A-2. 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.



TC	LL	20.0	PSF	REF	R215--	20371
TC	DL	10.0	PSF	DATE	04/05/06	
BC	DL	10.0	PSF	DRW	HCSR215	06095054
BC	LL	0.0	PSF	HC-ENG	MNM/WHK	
TOT	LD.	40.0	PSF	SEQN-	116094	
DUR	FAC.	1.25		FROM	CDM	
SPACING		24.0"		JREF-	1SW4215_Z05	

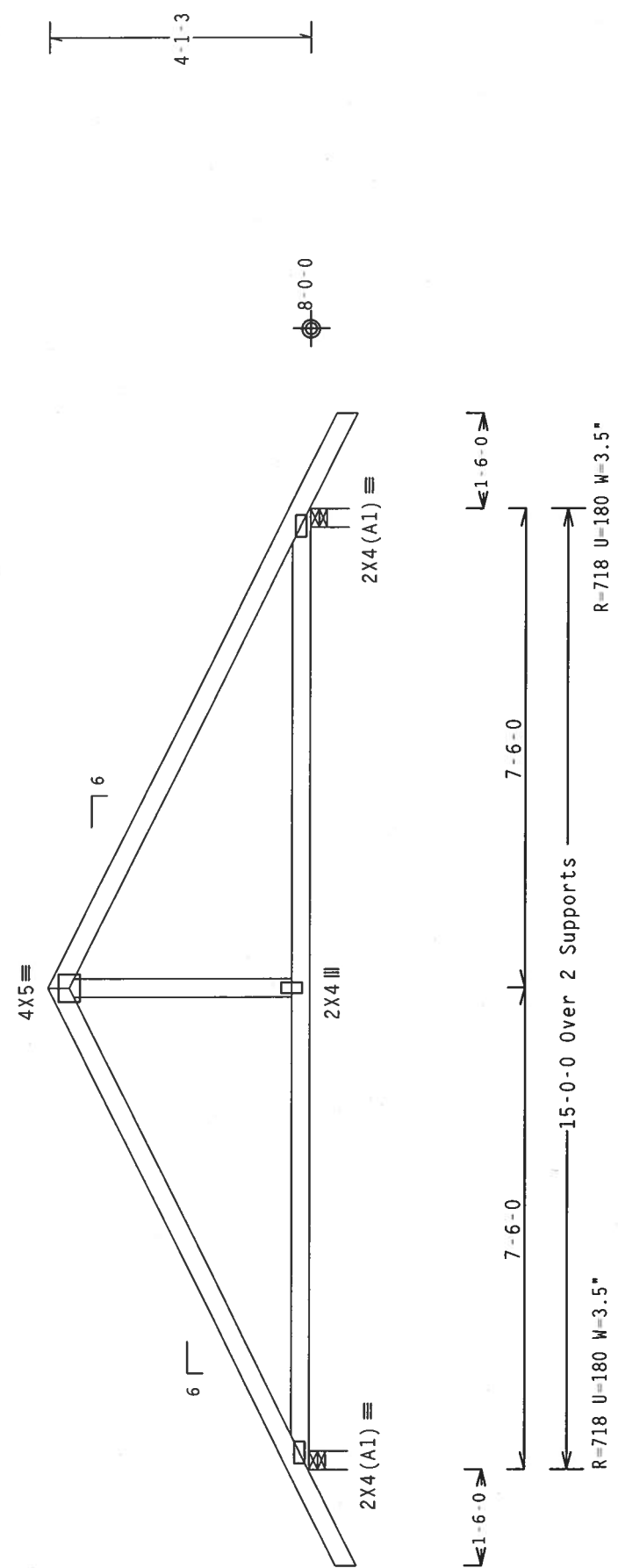
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

1110 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/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq. in./piece.

The overall height of this truss excluding overhang is 4-1-3.



Design Crit: TPI-2002(STD)/FBC

Scale = .375"/Ft.

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

1230 ~~1/2~~ ~~CON.~~ QTY: 1

7.2

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

Design Crit:

1000

PLT TYP. Wave/R

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PULPIT INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, 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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, MATERIALS SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF INTERNATIONAL DESIGN SPEC. BY AERCO AND THE CONNECTOR PLATES ARE MADE OF 20/18/16GA (H/M/S/YS) ASTM A653 GRADE 40/60 (H, K/H-S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THIS DESIGN PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11-2002 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/TP1 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

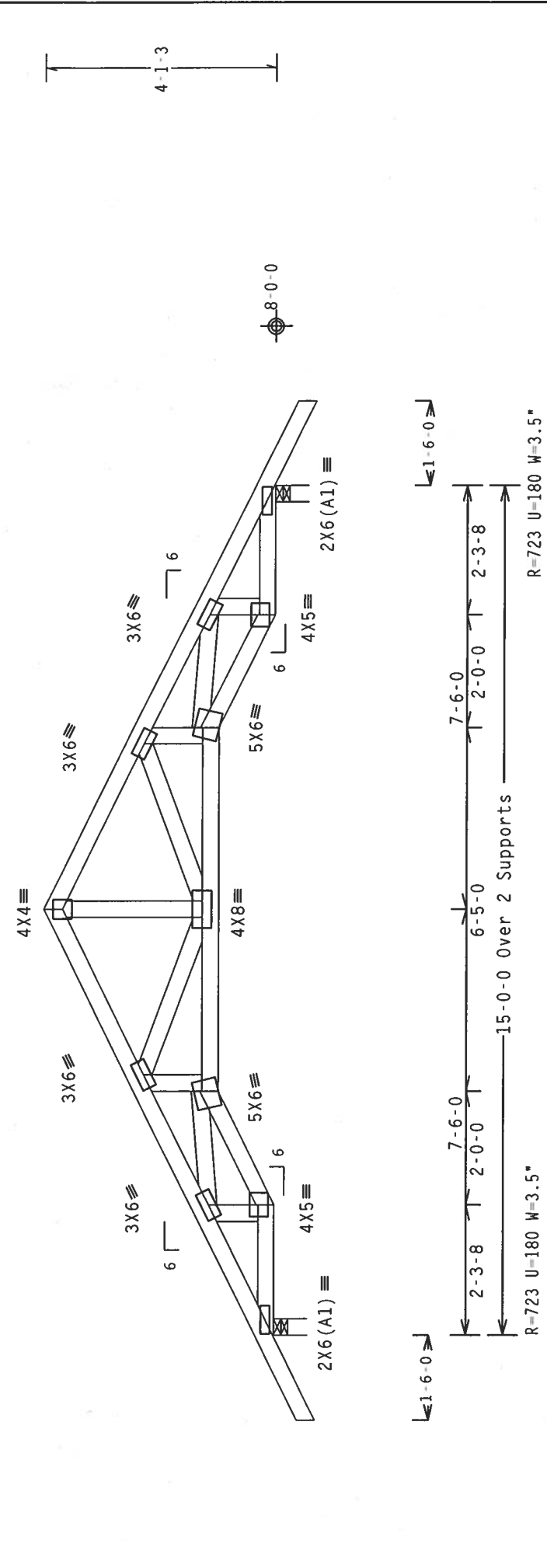
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 4-1-3.



PLT TYP. Wave\R

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.24.1230

Scale = .375"/Ft.

QTY:1	FL/-/5/-/-/R/-	TC LL	20.0 PSF	REF	R215-- 20373
		TC DL	10.0 PSF	DATE	04/05/06
		BC DL	10.0 PSF	DRW	HCUSR215 06095042
		BC LL	0.0 PSF	HC-ENG	MMN/WHK *
		TOT.LD.	40.0 PSF	SEQN-	116100
		DUR.FAC.	1.25	FROM	CDM
		SPACING	24.0"	JREF-	1SW4215_Z05

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

James F. Collins, P.E.
Professional Engineer
State of Florida
No. 82212

Apr 05 06

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSD 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 933 D'ONOFRIO DR., SUITE 200, MADISON, MI 48061, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, MI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (M-H/S/X) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. DRAWING 160A.2 SHALL BE PER AMER AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

(3389-/Udell Residence /Stanley Crawford Const. -- LAKE CITY, FL - B4)

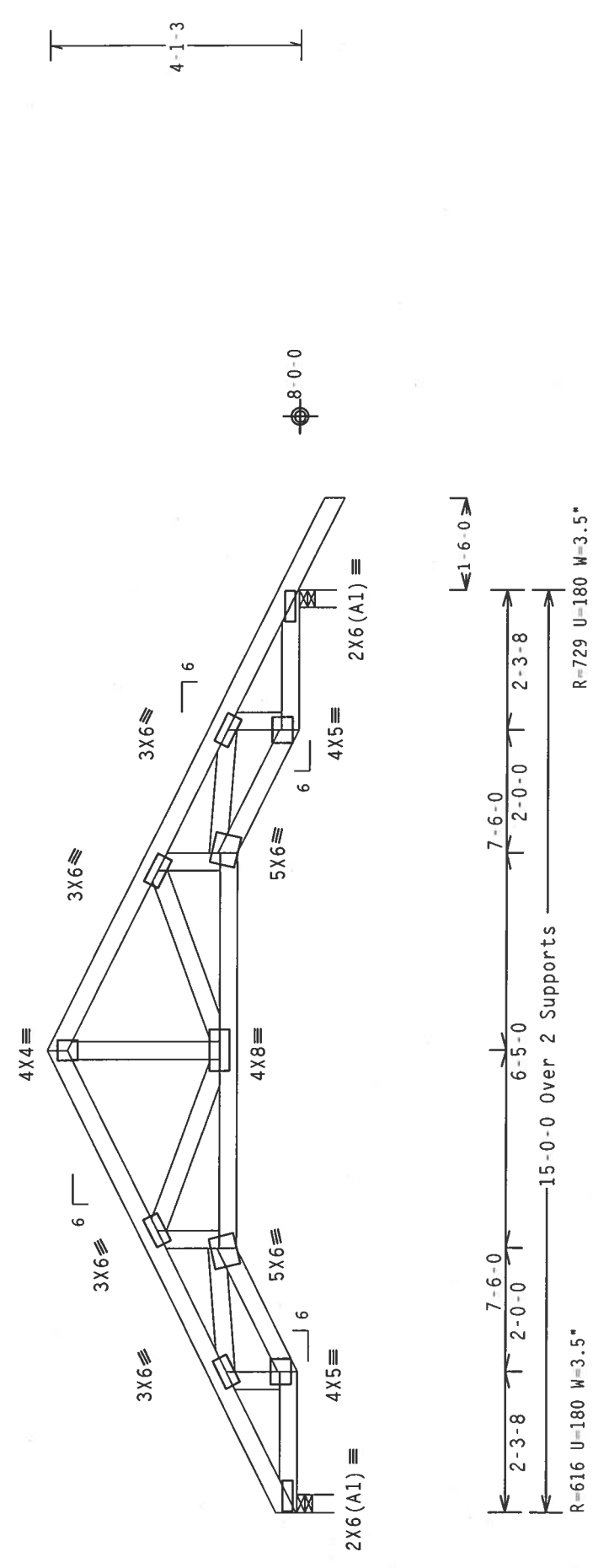
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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.

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 4-1-3.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R

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

QTY:1

Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1-0-0 BUILDING CODES, CHAPTER 16, TRUSSES, AND CHAPTER 17, ROOFING, FOR ADDITIONAL REQUIREMENTS. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF 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
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

FLORIDA PROFESSIONAL ENGINEER
No. 82212
STATE OF FLORIDA
APR 05 06

REF	R215--	20374
DATE	04/05/06	
DRW	HCUSR215	06095043
HC-ENG	MMN/WHK	*
SEQN-	116103	
DUR.FAC.	1.25	
SPACING	24.0"	
JREF-	1SW4215_Z05	

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d Box or Gun_ (0.128"x3", min.)_nails)

Top Chord:	1 Row	@12.00"	0 c.
Bot Chord:	1 Row	@ 3.25"	0 c.
Webs :	1 Row	@ 4" 0 c.	

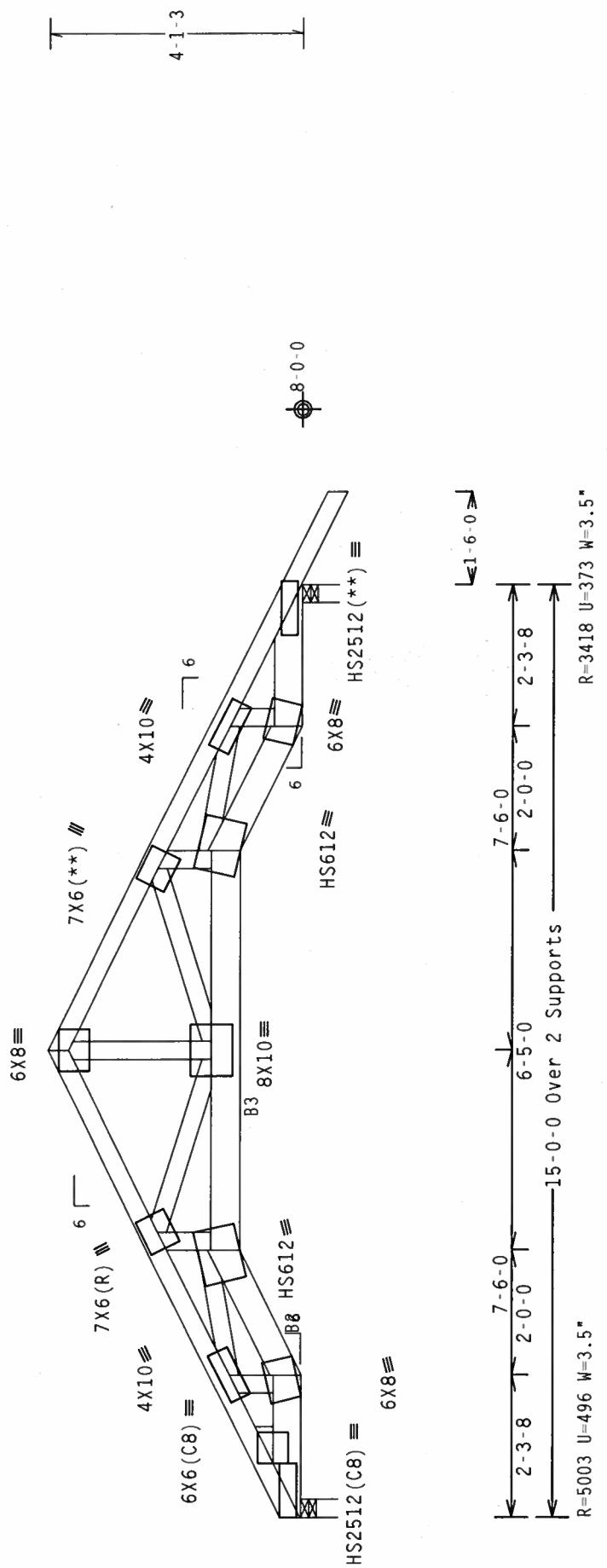
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

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

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

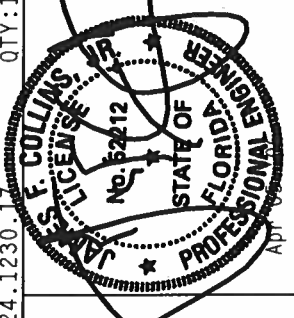
The overall height of this truss excluding overhang is 4-1-3.



PLT TYP. 20 Gauge HS.Wave\R

****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION - PUBLISHED BY TPI (TRUSS PULPIT INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND WTCO (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

*****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. CONECTOR PLATES ARE AVAILABLE 20/18 GA. (W/J-SPLT) ASTM A653 GRADE 40/60 (C.P. & H.SI) GALV. STEEL. APPLY AN ADDITIONAL 10% ALLOWANCE PER ANCHORS ON THIS SPECIFICATION. ALL DIMENSIONS SHALL BE PER ANNEX A-3 OF TPI-2002 SEC. 2.3. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A-3 OF TPI-2002 SEC. 2.3. 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 ANNEX TPI 1 SEC. 2.



FL/-/5/-/-/R/-		Scale = .375"/Ft.	
TC LL	20.0 PSF	REF	R215-- 20375
TC DL	10.0 PSF	DATE	04/05/06
BC DL	10.0 PSF	DRW	HCUSR215 06095070
BC LL	0.0 PSF	HC-ENG	MNM/WHK
TOT.LD.	40.0 PSF	SEQN-	116246
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1SW4215_Z05

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

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

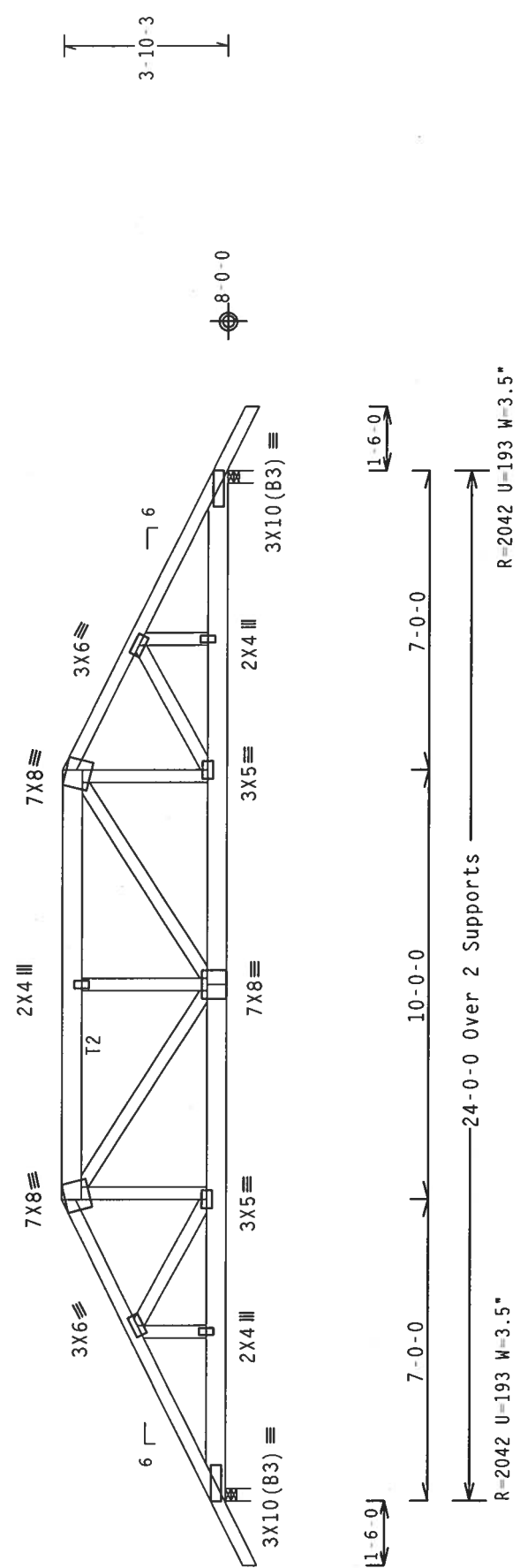
Plates sized for a minimum of 3.00 sq.in./piece.

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.

#1 hip supports 7'-0" jacks W/2 panel TC and no end vert.

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

The overall height of this truss excluding overhang is 3'-10"-3.



PLT TYP. Wave\R

ALPINE
Alpine Engineered Products, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 503 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS ANNEX INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

QTY:1 FL/- /5/- /- /R/-

REF	R215--	20376
DATE	04/05/06	
DRW	HCUSR215	06095071
HC-ENG	MNM/WHK	
SEQN-	116163	
FROM	CDM	
JREF-	1SW4215_Z05	

Scale = .25" / Ft.

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

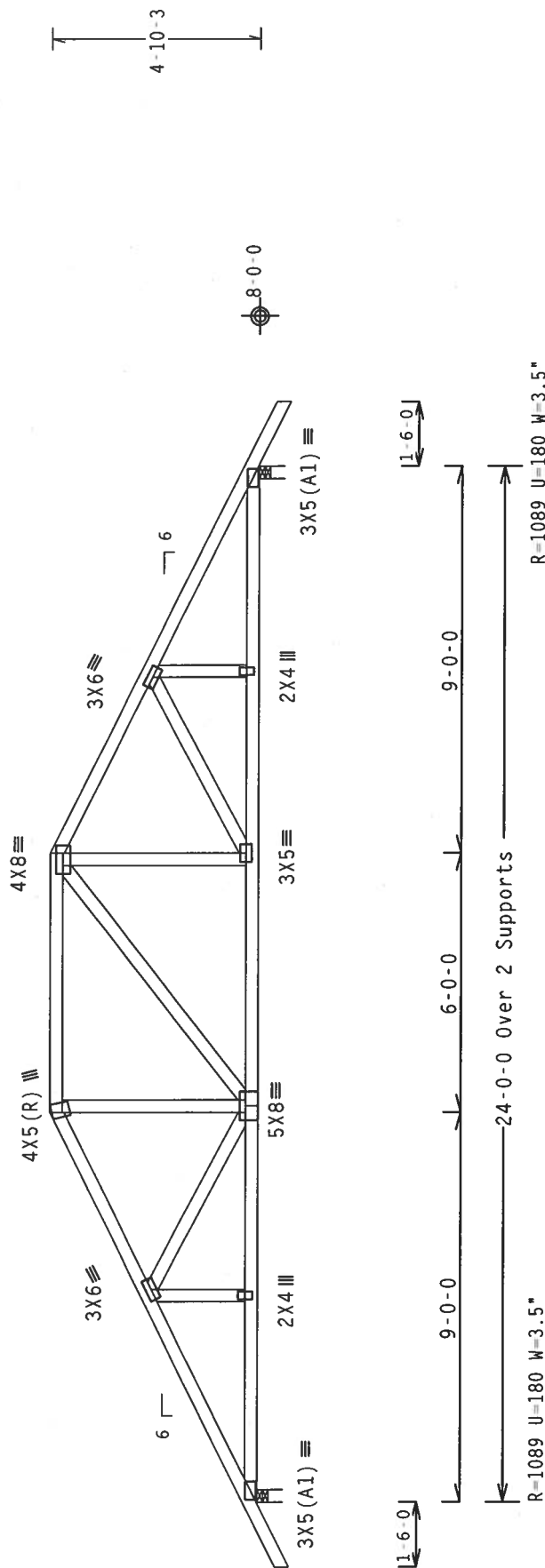
1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 4-10-3.



Design Crit: TPI-2002(STD)/FBC

Scale = .25"/Ft.

QTY:1 FL/-/5/-/-/R/-

230, 17mm

 $10(0) \quad 7.$ $Cq/RT=1.00(1.$

—

100

PLT TYP. Wave/R

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BCS1-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (TRUSS PLATE INSTITUTE, 583 O'DONNIO DR., SUITE 200, MADISON, WI 53719) AND WICA (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.

TC LL	20.0 PSF	REF R215 - - 20377
TC DL	10.0 PSF	DATE 04/05/06
BC DL	10.0 PSF	DRW HCUSR215 06095044
BC LL	0.0 PSF	HC-ENG MNM/WHK *
TOT.LD.	40.0 PSF	SEQN- 116167
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1SW4215 Z05



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

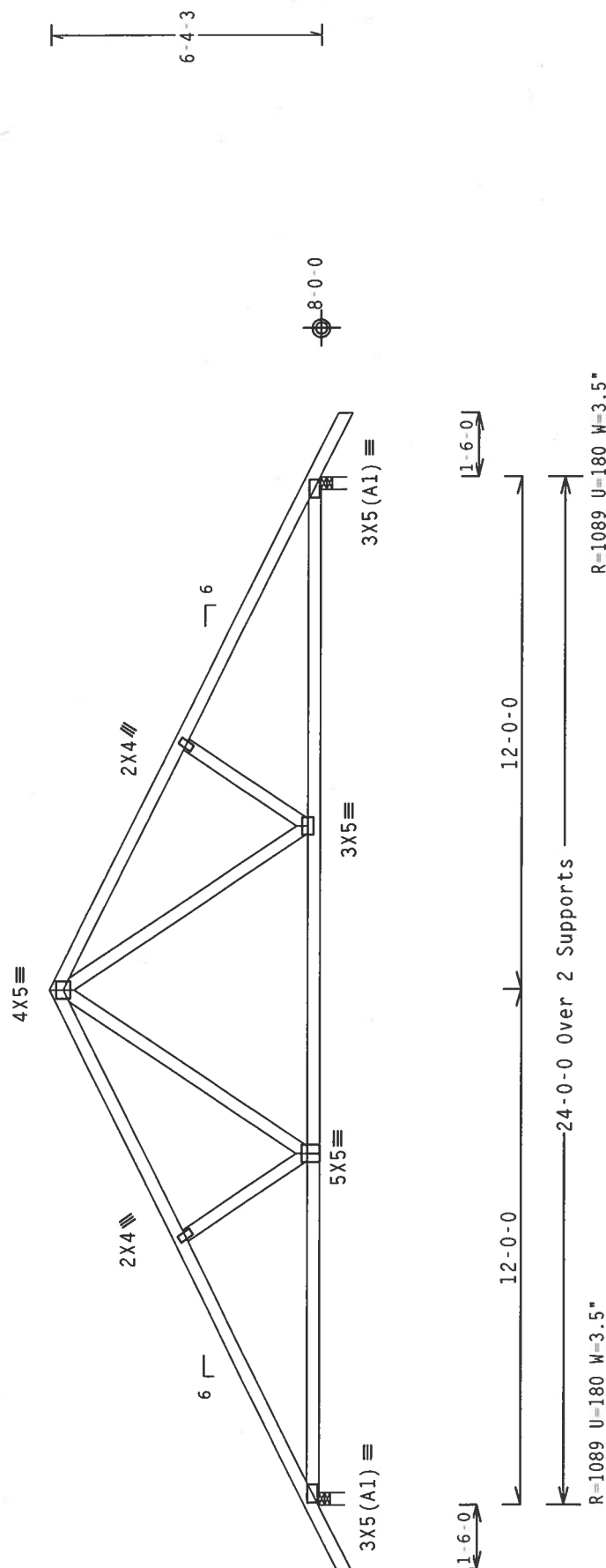
Top	chord	2x4	SP	#2	N
30t	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 6-4-3.



Design Crit: TPI-2002(STD)/FBC

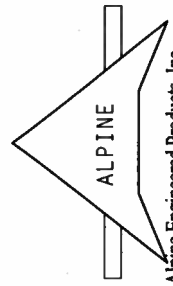
PLT TYP. Wave\R

QTY:1 FL/-/5/-/-/R/-/

Scale = .25"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI INDUSTRIES, INC., 503 D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., 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 PROPERLY ATTACHED TRUSS CEILING.

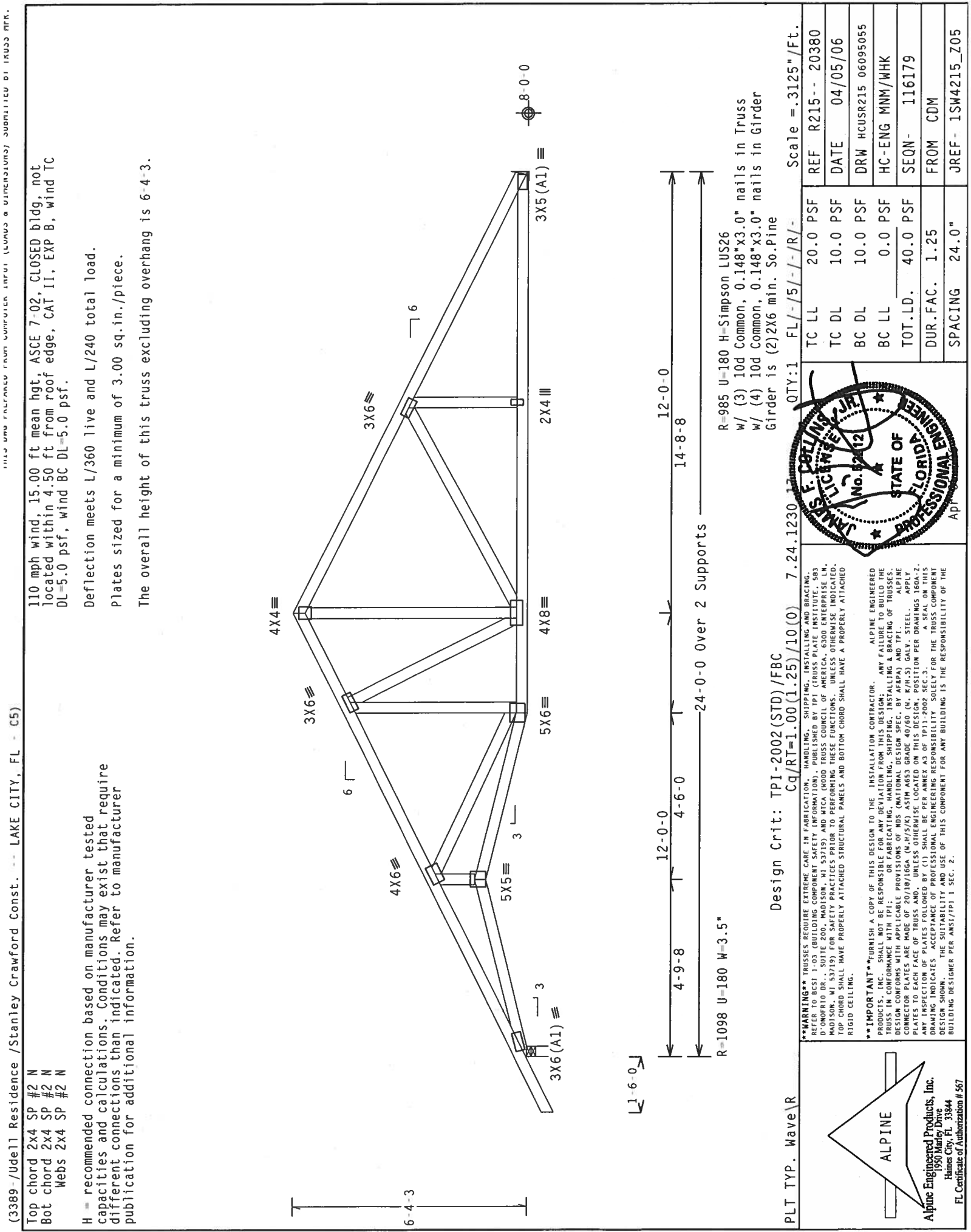
IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
THE COMPANY MAKES NO WARRANTY OR ASSURANCE OF ANY KIND, INCLUDING THE ADEQUACY OF THE
CONNECTIONS, UNLESS OTHERWISE SPECIFIED IN THE DESIGN SPEC. (BY AFPA) AND TPI TYPE LABEL.
ALPINE ENGINEERS SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE CONNECTIONS TO THE
PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI1 2002 SEC.3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
AND NOT THE CONNECTIONS. THE DESIGN OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER TPI1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Haines City, FL 33844
Fl. Certificate of Authorization # 567

TC LL	20.0	PSF	REF	R215--	20379
TC DL	10.0	PSF	DATE	04/05/06	
BC DL	10.0	PSF	DRW	HCUSR215 06095046	
BC LL	0.0	PSF	HC-ENG	MNM/WHK *	
TOT.LD.	40.0	PSF	SEQN-	116175	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1SN4215_Z05	



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

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 6-4-3.

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

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230 17

Scale = .3125"/Ft.

PLT TYP. Wave\ R

QTY: 1 FL/-/5/-/1-R/-

REF R215-- 20380
DATE 04/05/06
DRW HCUSR215 06095055
HC-ENG MNM/WHK
SEQN- 116179
FROM CDM
JREF- 1SW4215_Z05

STATE OF FLORIDA
JAMES F. COLLINS, JR.
No. 52412
APR 12 2006
PROFESSIONAL ENGINEER

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 D'ONOFIO DR., SUITE 200, MADISON, WI 53719), AND METAL TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/166A (N-H/S/K) ASTM A653 GRADE 40/60 (N, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT DESIGNER'S USE. THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TP1 1 SEC. 2.

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

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

Plates sized for a minimum of 3.00 sq.in./piece.

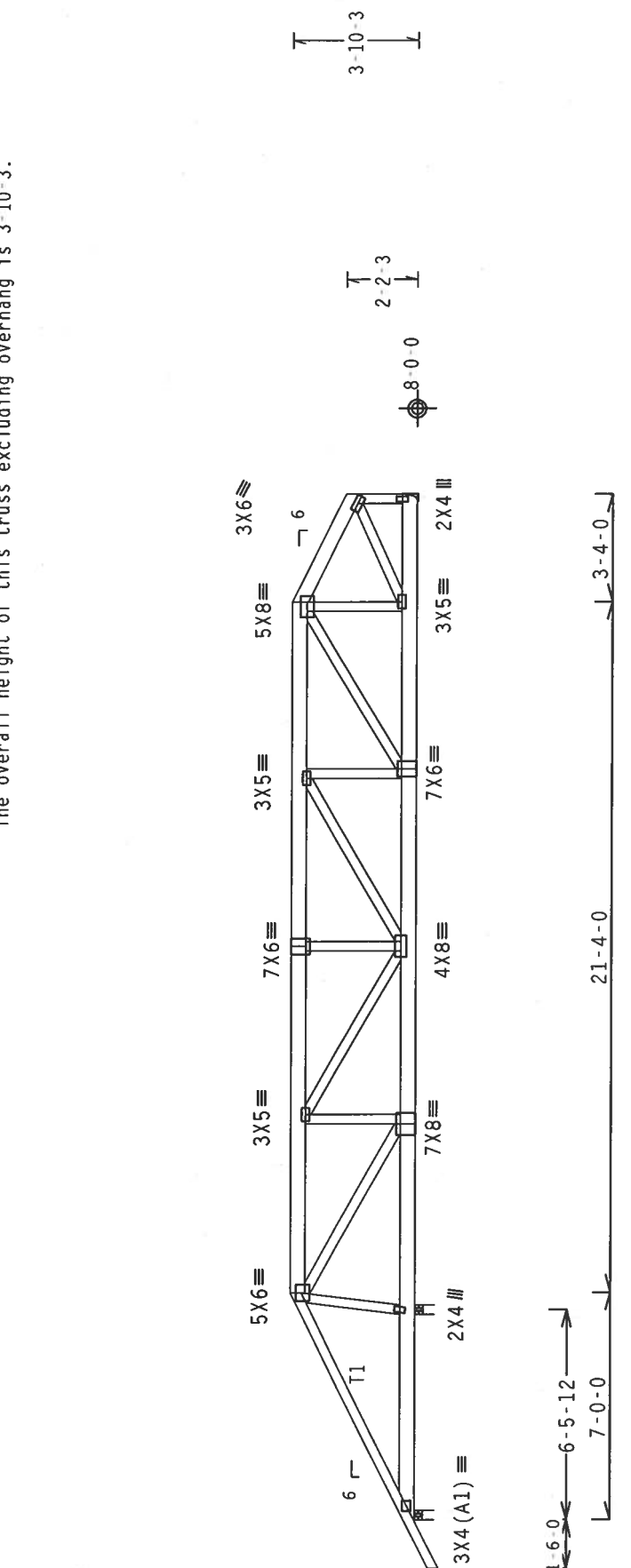
The overall height of this truss excluding overhang is 6-4-3.

1000

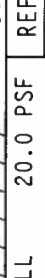
Use equal spacing between rows and stagger nails

Right end vertical not exposed to wind pressure.

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



PLT TYP. Wave\R



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1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MITA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** *FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (M, K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IPI11-2002 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/IPI 1 SEC. 2.

QTY: 1

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

7.24.1230

FL - 5 / - / - R / -

Scale = 1.875" / Ft.

REF R215 - - 20381	20.0 PSF	TC LL	20.0 PSF	QTY: 1	FL - 5 / - / - R / -	Scale = 1.875" / Ft.
DATE 04/05/06	10.0 PSF	TC DL	10.0 PSF			
DRW HCUSR215 06095074	10.0 PSF	BC-DL	10.0 PSF			
HC-ENG MNM/WHK	0.0 PSF	BC LL	0.0 PSF			
SEQN- 116139	40.0 PSF	TOT.LD.	40.0 PSF			
FROM CDM	1.25	DUR.FAC.	1.25			
JREF- 1SW4215_Z05	24.0"	SPACING	24.0"			

APR 05 2006

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.

H - recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

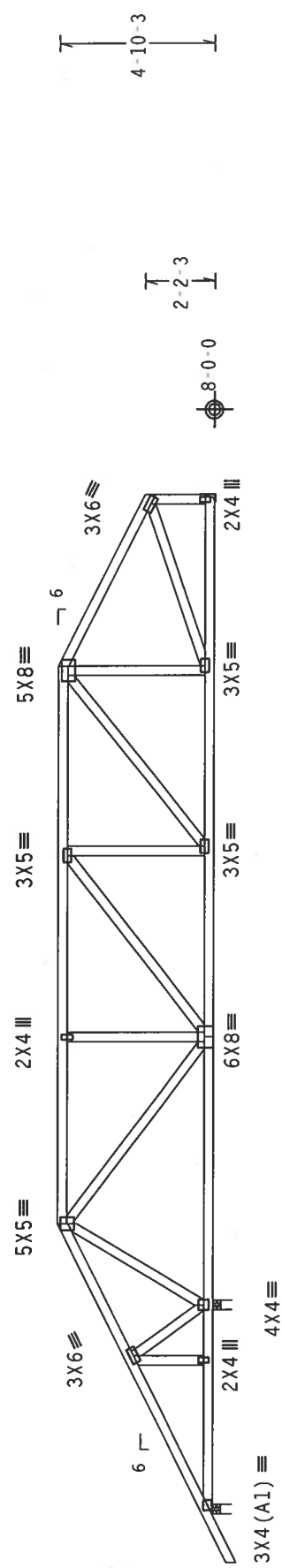
Right end vertical not exposed to wind pressure.

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

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

Plates sized for a minimum of 3.00 sq. in./piece.

The overall height of this truss excluding overhang is 4-10-3.


$$\begin{array}{c} \xrightarrow{1-6-0} \\ \xrightarrow{6-5-12} \end{array}$$

17-4-0

5-4-0

-31-8-0 Over 3 Supports

R=122 U=180 W=3.5" R=1616 U=180 W=3.5"

R-971 U=180 H=Simpson LUS26
w/ (3) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine

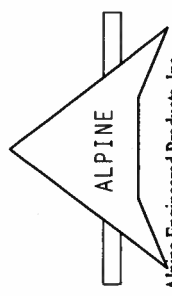
Design Crit: TPI-2002(STD)/FBC

Scale = .1875" / Ft.

230 QTY:1 FL/-/5/-/-/R/-

****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP1 (TRUSS PULPIT INSTITUTE, 583 D'ONOFIO RD., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

*****IMPORTANT*****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BULO THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ALPINE ENGINEERED PRODUCTS, INC. MAKES NO WARRANTY OR REPRESENTATION AS TO THE QUALITY OF THE TRUSS. THE TRUSS CONNECTORS ARE MADE OF 6061-T6 ALUMINUM DESIGN SPEC. BY A9400 AND TPI STEEL. THE TRUSS PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, INSTALLATION PERMANENT 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX 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 SUBMITAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANS/TP1 1 SEC. 2.



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

TC LL	20.0 PSF	REF R215-- 20382
TC DL	10.0 PSF	DATE 04/05/06
BC DL	10.0 PSF	DRW HCUR215 06095056
BC LL	0.0 PSF	HC-ENG MNM/WHK
TOT.LD.	40.0 PSF	SEQN- 116145
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF- 1SW4215_Z05

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

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

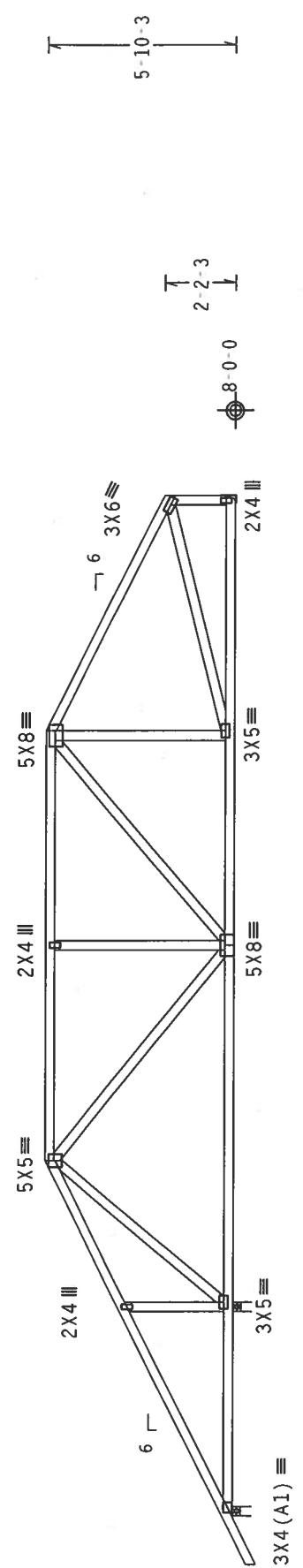
Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 5-10-3.

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

Right end vertical not exposed to wind pressure.
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Plates sized for a minimum of 3.00 sq.in./piece.



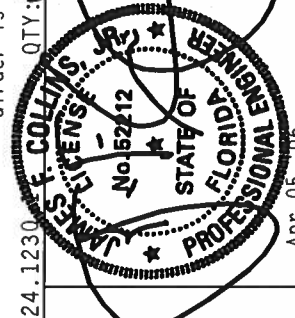
1-6-0
6-5-12
11-0-0
13-4-0
7-4-0
31-8-0 Over 3 Supports
R-268 U=180 W=3.5
R-1442 U=180 W=3.5

R=999 U=180 H=Simpson LUS26
w/ (3) 10d Common, 0.148"x3.0" nails in Truss
w/ (4) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

Scale = .1875"/Ft.

PLT TYP. Wave\R	QTY: 1	FL/-5/-/-R/-	TC LL	20.0 PSF	REF R215-- 20383
			TC DL	10.0 PSF	DATE 04/05/06
			BC DL	10.0 PSF	DRW HCUSR215 06095057
			BC LL	0.0 PSF	HC-ENG MNM/WHK
			TOT.LD.	40.0 PSF	SEQN- 116150
			DUR.FAC.	1.25	FROM CDM
			SPACING	24.0"	JREF- 1SW4215_Z05



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS 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 AND BRACING OF TRUSSES. CONNECTOR PLATES ARE MADE TO SPECIFICATIONS OF THE NATIONAL DESIGN SPEC. BY AEP&A AND TPI. ALPINE PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DRAWING, PER LOW PER DRASSEN, 2011Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. APPLY TO THIS DRAWING. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGN SHOWN. THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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

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.

Calculated horizontal deflection is 0.22" due to live load and 0.23" due to dead load.

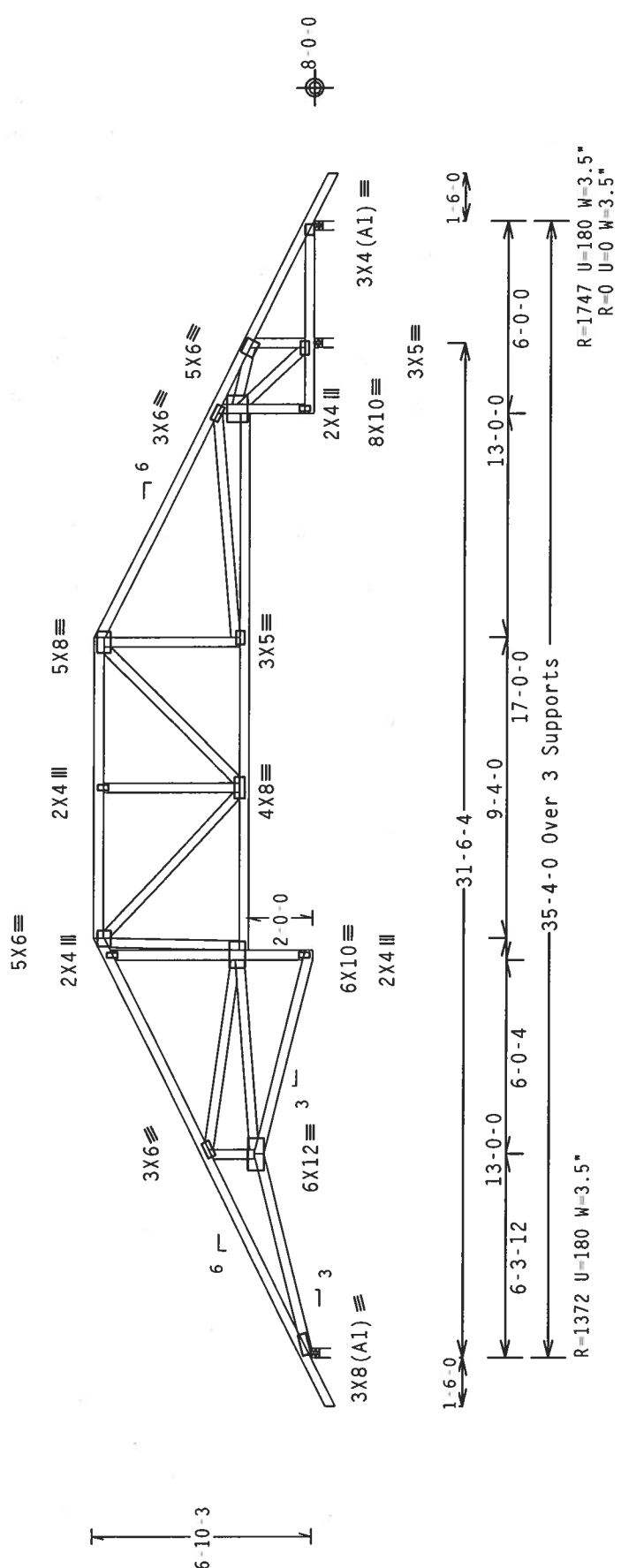
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

Plates sized for a minimum of 3.00 sq.in./piece.

Shim all supports to solid bearing.

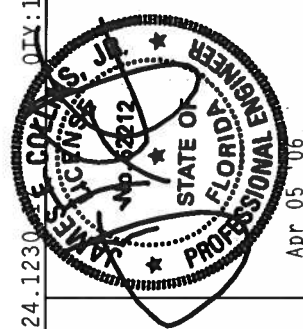
The overall height of this truss excluding overhang is 6-10-3.



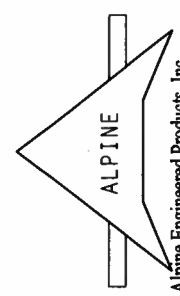
Design Crit: TPI-2002(STD)/FBC

Scale = .1875"/Ft.

TC LL	20.0	PSF	REF	R215--	20384
TC DL	10.0	PSF	DATE	04/05/06	
BC DL	10.0	PSF	DRW	HCUSR215	06095058
BC LL	0.0	PSF	HC-ENG	MNM/WHK	
TOT.LD.	40.0	PSF	SEQN-	116205	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1SW4215_Z05	



Apr 05 '06



Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'AMORIO DR., SUITE 200, MADISON, WI 53719) 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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE DESIGNER ASSUMES NO RESPONSIBILITY FOR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATING, INSTALLING, AND ERECTING OF THE TRUSS IN CONFORMANCE WITH THE DESIGN. PROVIDE THE FOLLOWING DESIGN SPEC. BY AEP&P AND TPI. ALPINE DESIGN CONNECTOR PLATES ARE MADE OF 2018/1868 (N-1/2X)N. ASTM A653 GRADE 40/60 (N. K/H/5) GALV. STEEL. ALPINE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES THE ALLOWED PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND NOT THE TRUSS AS A WHOLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2. THE DESIGNER ASSUMES NO RESPONSIBILITY FOR ANY BUILDING AS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

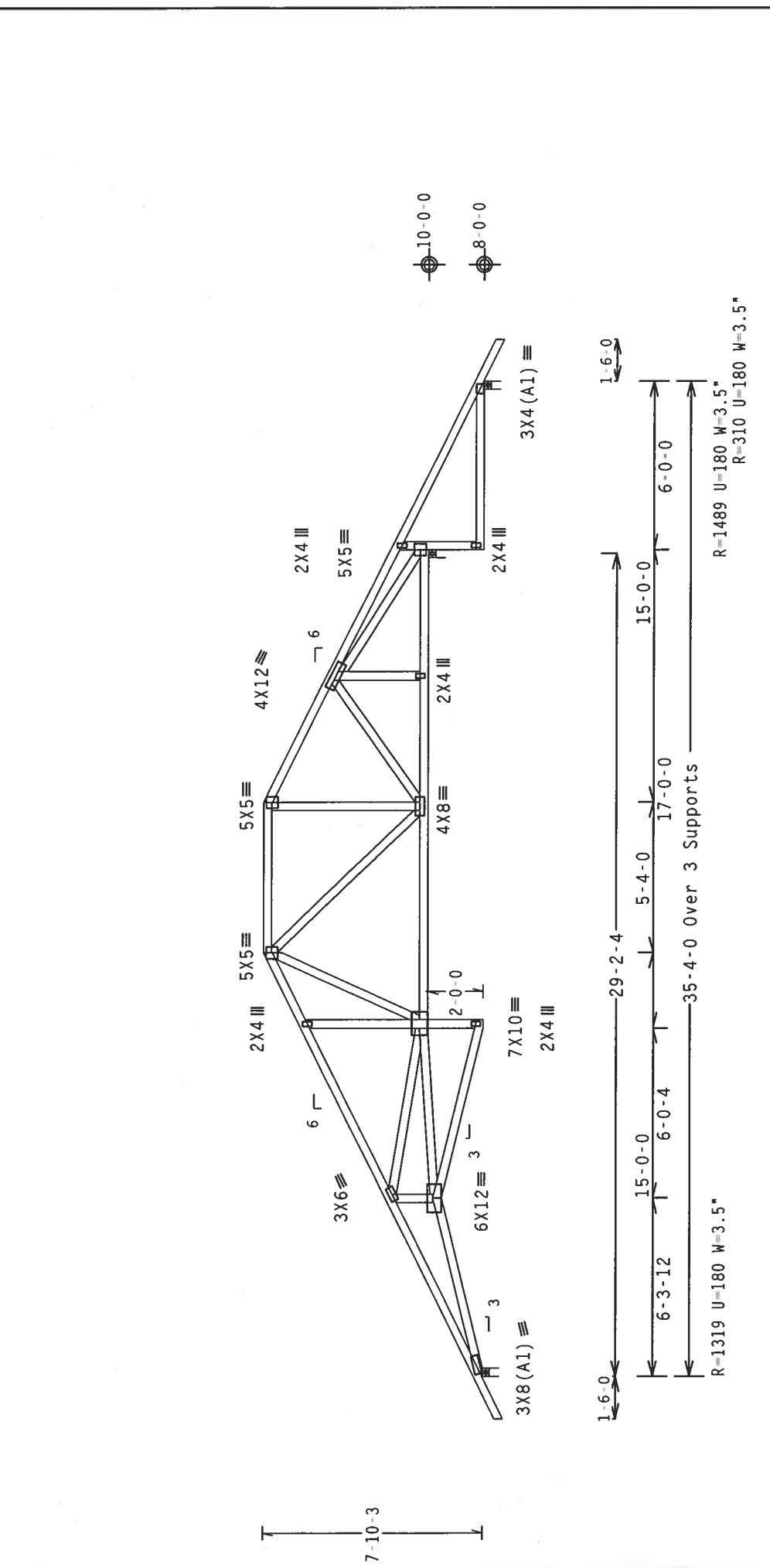
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 7-10-3.



PLT TYP. Wave\|R

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/(10/0) 7.24.1230

Scale = .1875"/Ft.

REF R215-- 20385

DATE 04/05/06

DRW HCUSR215 06095059

HC-ENG MNM/WHK

SEQN- 116208

FROM CDM

JREF- 1SW4215_Z05

ALPINE

Alpine Engineered Products, Inc.

Haines City, FL 33844

FL Certificate of Authorization # 567

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PULPIT INSTITUTE), 10000 DUNDAS ST. E., SUITE 200, MARIETTA, GA 30067, (770) 421-1111, WWW.TPI-TRUSSES.COM, FOR THE LATEST INFORMATION. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASCE) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (M/H/S/K) ASTM A653 GRADE 40/60 (M. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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. THE SEAL IS THE PROPERTY OF ALPINE ENGINEERED PRODUCTS, INC. AND SHALL NOT BE REPRODUCED OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

APR 05 2006

STATE OF FLORIDA

PROFESSIONAL ENGINEER

ALPINE ENGINEERED PRODUCTS, INC.

NO. 52212

JAMES E. ROLLINS, P.E.

APR 05 2006

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

1110 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.

(A) Continuous lateral bracing equally spaced on member.

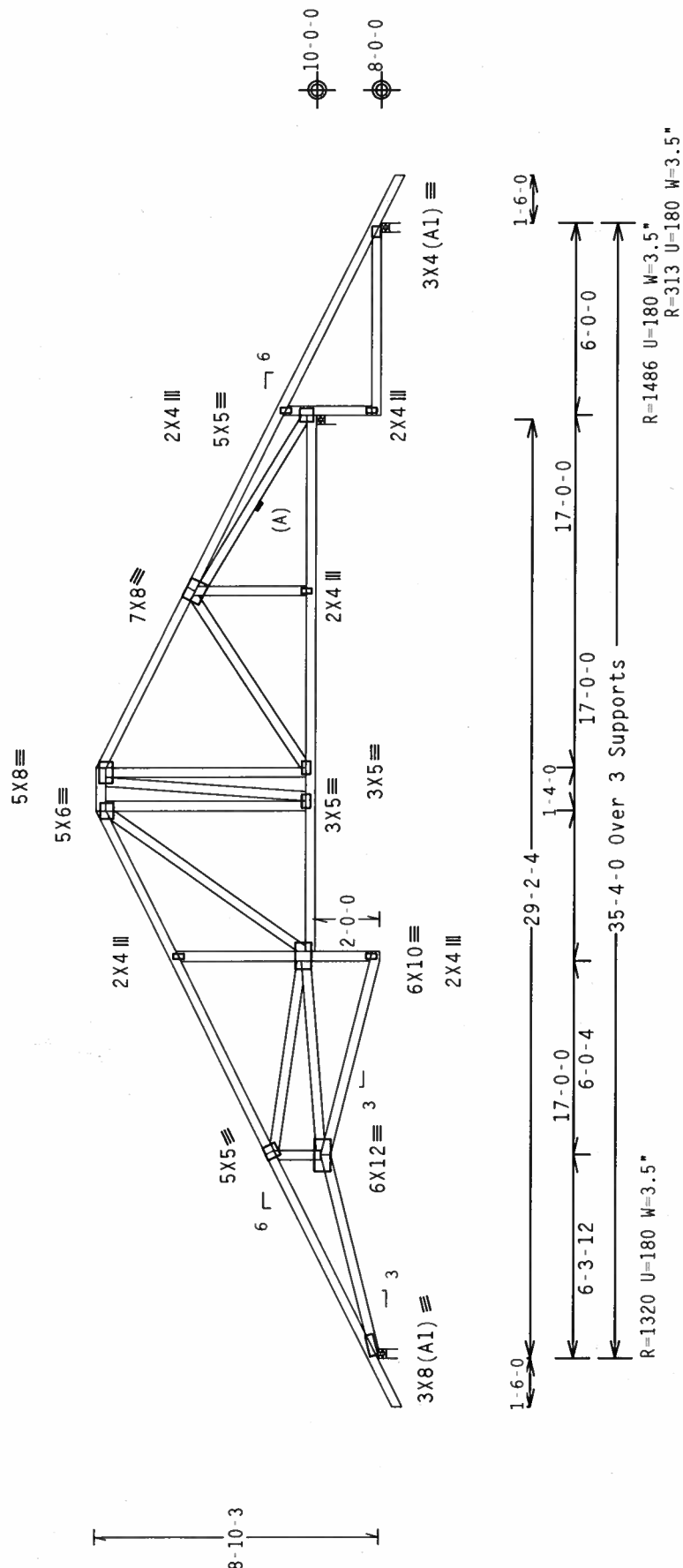
Deflection meets L/360 live and L/240 total load.

Shim all supports to solid bearing.

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

Plates sized for a minimum of 3.00 sq. in./piece.

The overall height of this truss excluding overhang is 8-10-3.



Design Crit: TPI-2002(STD)/FBC

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS 1-03 (BUILDING CODES, SAFETY INFORMATION), PUBLISHED BY TP1 (TRUSS PLATE INSTITUTE, 583 S. 4000 RD., SUITE 200, MOBILE, AL 36688) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR THE BEST PRACTICES FOR THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED BRIGED CEILING.

*****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, CONNECTOR PLATES AND JOINTS IN ACCORDANCE WITH THE PROVISIONS OF ANS (NATIONAL DESIGN SPEC., BY APOFA) AND TPI: MADE ON 20/10/1987. THE TRUSS SHALL BE MANUFACTURED USING GALVALUM STEEL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, ALL OTHER PERMANENT MARKINGS SHALL BE MADE ON THE INSIDE SURFACE OF THE TOP CHORD PLATE. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-2002 SEC 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE SEAL ON THIS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

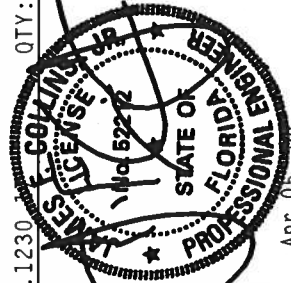
PLT TYP. Wave\R

230

QTY:1 EI / - / 5 / - / - / R / - / -

Scale = 1875"/Et

TC LL	20.0	PSF	REF	R215--	20386
TC DL	10.0	PSF	DATE	04/05/06	
BC DL	10.0	PSF	DRW	HCUSR215	06095060
BC LL	0.0	PSF	HC-ENG	MNM/WHK	
TOT.LD.	40.0	PSF	SEQN-	116212	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1SW4215	Z05



Apr 05 '06

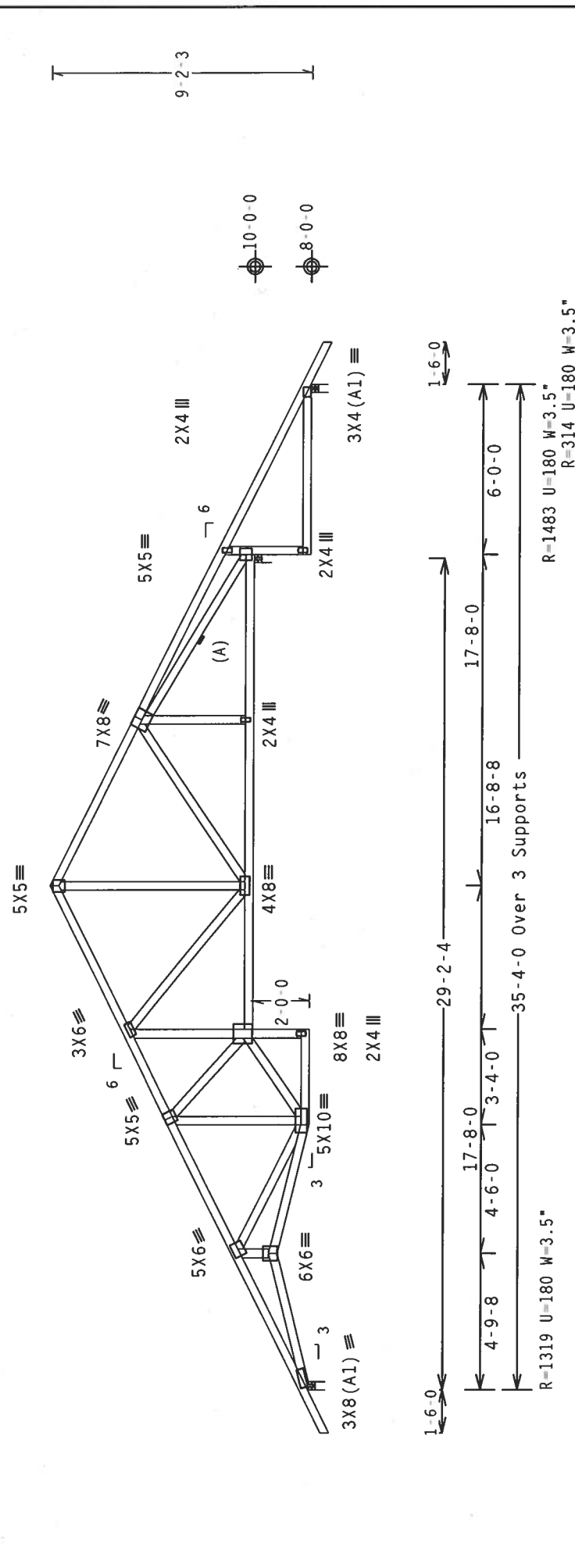
SPACING	24.0"	JREF- 1SW4215_Z05
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110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. Shim all supports to solid bearing.

(A) Continuous lateral bracing equally spaced on member. Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 9-2-3.



PLT TYP. Wave\R

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF	R215-- 20388
TC DL	10.0 PSF	DATE	04/05/06
BC DL	10.0 PSF	DRW	HCUSR215 06095062
BC LL	0.0 PSF	HC-ENG	MNM/WHK
TOT.LD.	40.0 PSF	SEQN-	116220
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1SW4215_Z05

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

James P. Collins, Jr.
Professional Engineer
No. 52212
State of Florida

Apr 05 06

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND AISC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2019/16GA (M-H/S/K) ASTM A653 GRADE 40/60 (M, K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES 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
Bot	chord	2x4	SP	#2	N
	Webs	2x4	SP	#2	N

110 mph wind, 15.00 ft mean ht, 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.

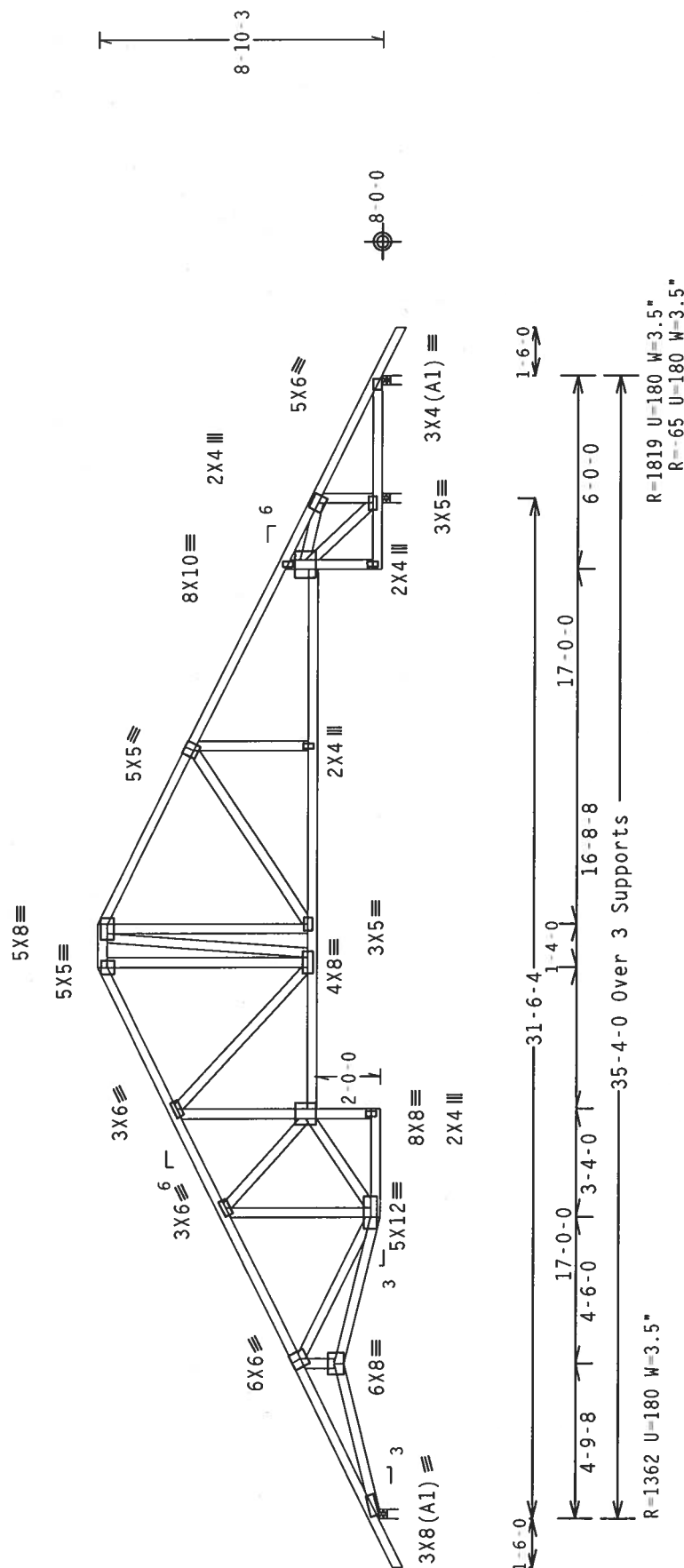
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

Shim all supports to solid bearing.

Plates sized for a minimum of 3.00 sq. in./piece.

The overall height of this truss excluding overhang is 8-10'-3".

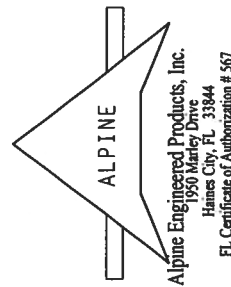
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/

PLT TYP. Wave\R

OTY:1 FL/-/5/-/-/R/- Scale = 1875"/Ft.

WARNING: THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TP1, 583
D'ONOFIO DR., SUITE 200, MADISON, WI 53719, AND WTCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE
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 GUSSETING.

TC LL	20.0	PSF	REF	R215--	20389
TC DL	10.0	PSF	DATE	04/05/06	
BC DL	10.0	PSF	DRW	HCUSR215	06095063
BC LL	0.0	PSF	HC-ENG	MMN/WHK	
TOT.LD.	40.0	PSF	SEQN-	116225	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1SW4215	Z05



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

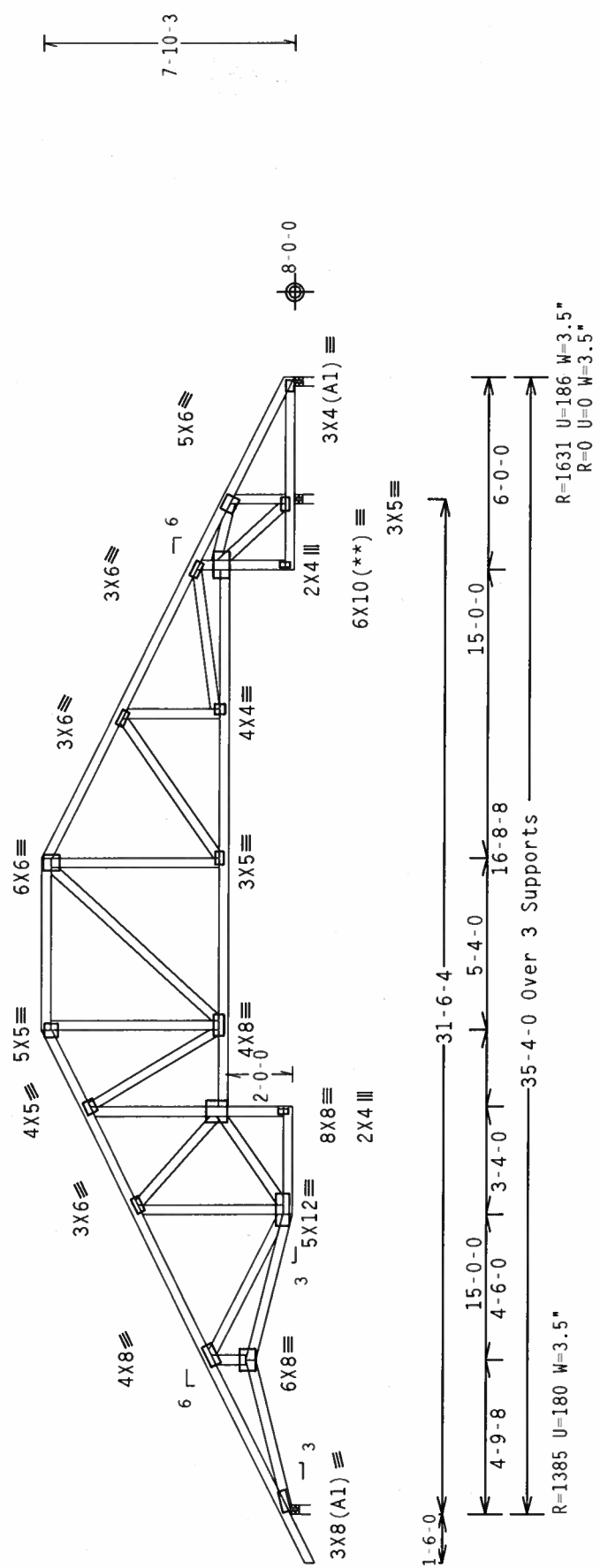
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

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

Plates sized for a minimum of 3.00 sq. in./piece.

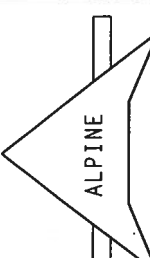
The overall height of this truss excluding overhang is 7-10-3.



R=1631 U=186 W=3.5
R=0 U=0 W=3.5

R=1385 U=180 W=3.5"

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave\R	 Alpine Engineering Products, Inc. 1950 Marlin Rd. Haines City, FL 33844	**WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 - 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D-ONFIELD DR., SUITE 2000, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. **IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSSES OR TO THE BUILDING. ANY FAILURE OF TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W./H./K) ASTM A653 GRADE 40/60 (W. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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.	Design CRIT: TPI-2002(SID)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/5/-/R/- Scale =.1875"/Ft.	REF R215-- 20390 DATE 04/05/06 DRW HCUSR215 0609S064 HC-ENG MNM/WHK SEQN- 116230 FROM CDM JREF- 1SW4215.Z05	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"	APR 05 '06 JAMES K. COLLINS FLORIDA PROFESSIONAL ENGINEER STATE OF FLORIDA No. 122412
-----------------	--	--	--	--	--	---

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

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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

Plates sized for a minimum of 3.00 sq.in./piece.

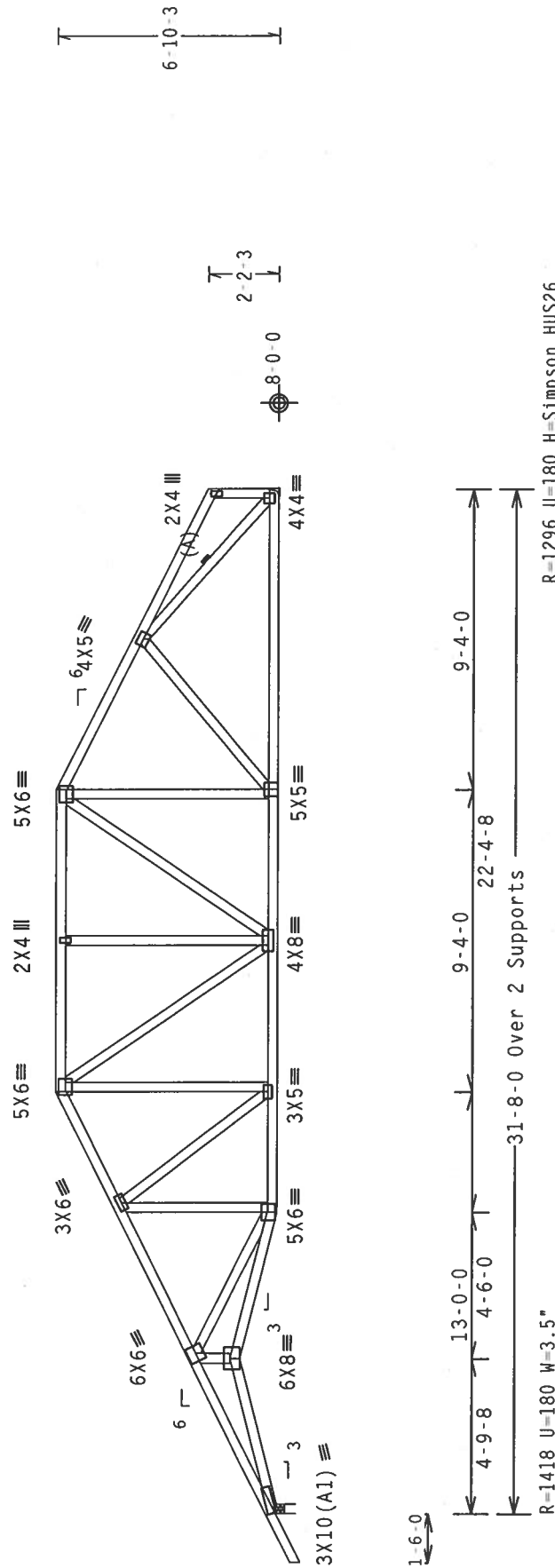
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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

The overall height of this truss excluding overhang is 6-10-3.



R=1296 U=180 H=Simpson HUS26

w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2x6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC

Scale = 1875"/Ft.

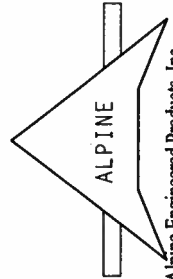
230

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

PLT TYP. Wave\R

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE NATIONAL BUILDCONSTRUCTION TRADES EDUCATION FUND, 670 O'NEILL DR., SUITE 200, MADISON, WI 53719, AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE BLVD., SUITE 100, 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.

***INSTALLER**FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS
PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH THE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TRUSS
CONNECTIONS AND WELDING PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AIA/AIA) SHALL BE THE
RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGNER SHALL NOT BE RESPONSIBLE FOR THE
PLATES TO EACH FACE OF PLATES FOLLOWED BY (1) UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A.2.
ANY INSPECTION OF PLATES TURNED BY (1) SHALL BE PER AIA/AIA 4.3 OF TPI 11 2002 SEC.3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
BUILDING, DESIGNER PER AIA/AIA 11 SEC.2 OF THIS COMPETING FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER AIA/AIA 11 SEC.2.



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Haines City, FL 33844
FL Certificate of Authorization # 567

FL Certificate of Authorization # 567

TC LL	20.0	PSF	REF	R215--	20391
TC DL	10.0	PSF	DATE	04/05/06	
BC DL	10.0	PSF	DRW	HCUSR215	06095065
BC LL	0.0	PSF	HC-ENG	MNM/WHK	
TOT.LD.	40.0	PSF	SEQN-	116235	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	15W4215_Z05	

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

1110 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.

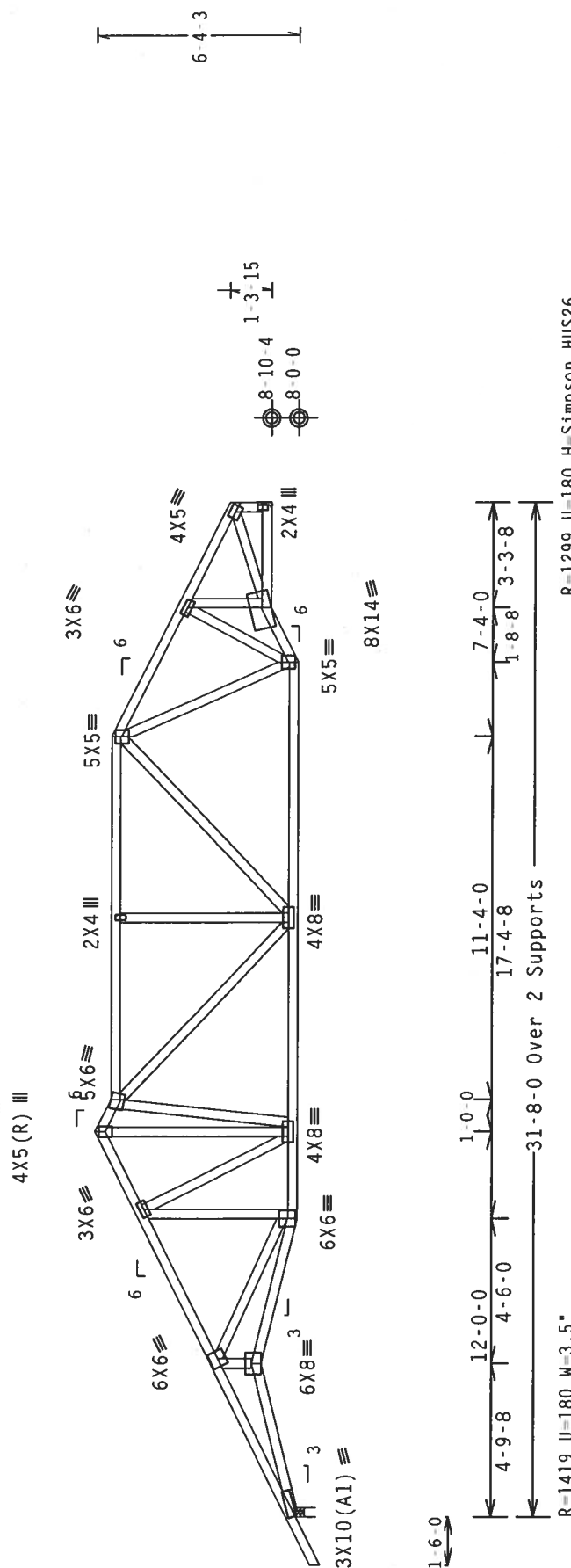
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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

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

Plates sized for a minimum of 3.00 sq. in./piece.

The overall height of this truss excluding overhang is 6-4-3.



R-1299 U-180 H-Simpson HUS26

w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine

PLT TYP. Wave\R

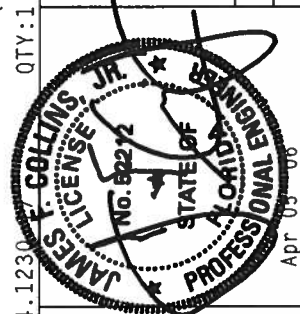
Design Crit: TPI-2002(STD)/FBC
Ca/RT=1.00(1.25)/

30

QTY:1 EL151-1-1R1-

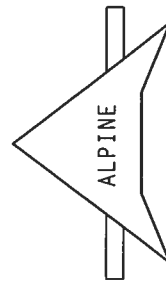
Scale = .1875"/Ft.

TC LL	20.0	PSF	REF R215 - 20392
TC DL	10.0	PSF	DATE 04/05/06
BC DL	10.0	PSF	DRW HCUR215 06095066
BC LL	0.0	PSF	HC-ENG MNM/WHK
TOT.LD.	40.0	PSF	SEQN- 116239
DUR.FAC.	1.25		FROM CDM
SPACING	24.0"		JREF- 1SW4215_Z05



***WARNING:** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE FOLLOWING INFORMATION FOR ADDITIONAL DETAILS:
 1. ALL TRUSSES MUST BE PREPARED BY A QUALIFIED ENGINEER, PUBLISHED BY API (TRUSS PLATE INSTITUTE, 583
 S. OBERLIN RD., SUITE 200, MADISON, WI 53719) AND VICTOR (VICTOR TRUSS COMPANY, INC., 6500 EPRISSE LN.,
 MADISON, WI 53719). FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS, OTHERS SHOULD BE ADVISED.
 TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED
 RIGID CEILING.

IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS & PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING THE TRUSS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI1. PROVIDE PLATES TO EACH FACE OF THUSSED AND UNTHUSSED ELEMENTS LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI1-2002 SEC.3. A SEAL ON THE DRAWING INDICATES ACCEPTANCE OF THE MANUFACTURING AND ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT PROVIDED BY THE TRUSS MANUFACTURER. USE OF THIS COMMENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNEX/TPI1 1 SEC. 2.



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1950 Marley Drive
Haines City, FL 33844
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Haines City, FL 33844

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

110 mph wind, 15.00 ft mean htg, 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.

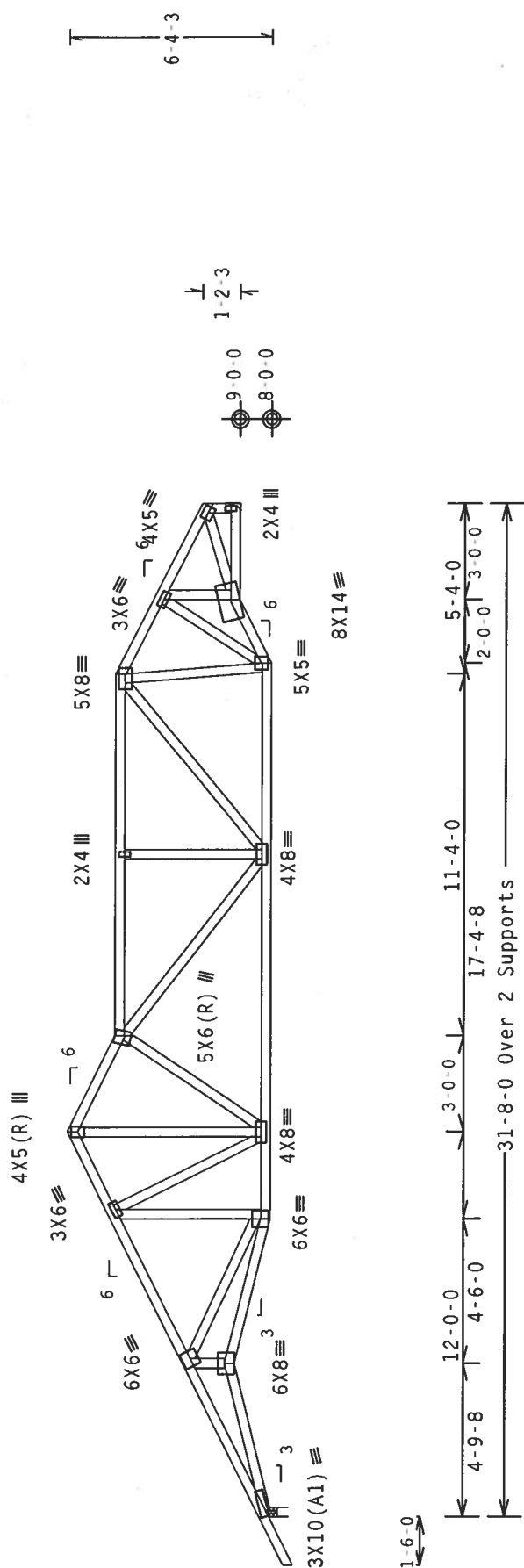
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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

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

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 6-4-3.



R=1419 U=180 W=3.5"

R=1300 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (2)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC

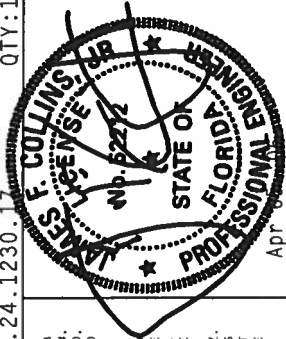
1.2002 (316) / 1 DC
Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

Scale = .1875"/Ft.

PLT TYP. Wave\R

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP 1-03 (BUILDING COMPONENT SAFETY AND INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND VICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

***** IMPORTANT ***** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS, 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 AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA. UNLESS OTHERWISE SPECIFIED THIS DESIGN (W. 4/8" X 5/8" GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND 1/8" THICKNESS LOCATED ON THIS POSITION PER DRAWINGS 160A-2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 45 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 DESIGNING DESIGNER PER A515/TPI1 SEC. 2.



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FL Certificate of Authorization # 567

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

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

Right end vertical not exposed to wind pressure.

Calculated horizontal deflection is 0.14" due to live load and 0.14" due to dead load.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(A) Continuous lateral bracing equally spaced on member.

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

Plates sized for a minimum of 3.00 sq.in./piece.

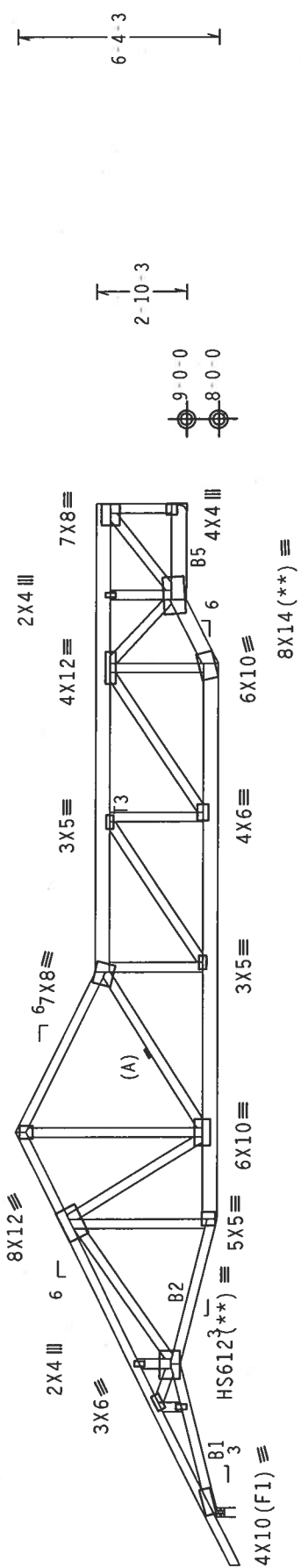

$$1-6-0$$

Diagram of a continuous beam with 5 supports and 4 spans. The spans are labeled with lengths: 4-9-8, 12-0-0, 4-6-0, 5-0-0, 17-4-8, 14-8-0, 2-0-0, and 3-0-0. A dimension line at the bottom indicates the total length is 31-8-0 over 2 supports.

R=1888 U=214 W=3.5"

R=3180 U=350 H=Simpson HUS26
w/ (6) 16d, 0.162"x2.5" nails in Truss
w/ (14) 16d, 0.162"x2.5" nails in Girder
Girder is (2)2X6 min. So.Pine

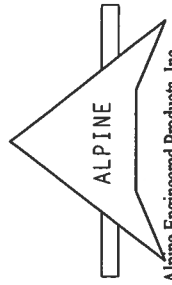
QTY:1 FL/-/5/-/-/R/- Scale = .1875"/Ft.

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

PLT TYP. 20 Gauge HS, Wave\ R

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESIGNS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 N. O'NEAR DR., SUITE 200, MADISON, WI 53719) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NATIONAL DESIGN SPEC. 2. INSTALLING AND BRACING TO TRUSSES SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGNER HAS NOT BEEN ADVISED TO APPLY CONNECTOR PLATES ARE MADE OF 2010/16GA. (W4/H5/KS) ASTM A563 GRADE 40/60 (4. K/H.5) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND (W4/H5/KS) LOCATED 40/60 (4. K/H.5) GALV. STEEL. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TP11-2002 SEC.3. 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 Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

TC LL	20.0 PSF	REF	R215-- 20394
TC DL	10.0 PSF	DATE	04/05/06
BC DL	10.0 PSF	DRW	HCUSR215 06095072
BC LL	0.0 PSF	HC-ENG	MNM/WHK
TOT.LD.	40.0 PSF	SEQN-	116197
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1SW4215_Z05

(3389-/Udell Residence /Stanley Crawford Const. -- LAKE CITY, FL - JCI)

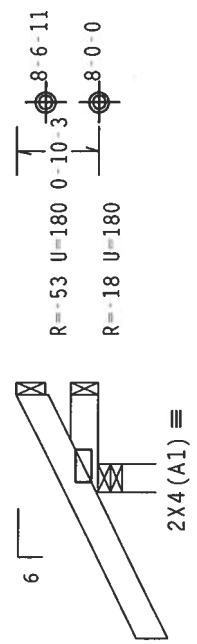
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

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

The overall height of this truss excluding overhang is 0-10-3.

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

Plates sized for a minimum of 3.00 sq.in./piece.



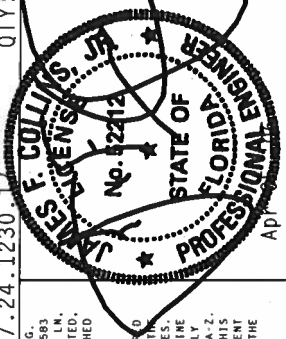
1-6-0
1-0-0 Over 3 Supports
R=254 U=180 W=3.5"

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

Scale = .5"/Ft.

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

REF	R215--	20395
DATE	04/05/06	
DRW	HCUSR215	06095068
HC-ENG	MNM/WHK	
SEQN-	116106	
FROM	CDM	
JREF-	1SW4215_Z05	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) 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 A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 2018/16GA (W/1/2X) ASTM A553 GRADE 40/60 (N. 8/16.5) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF THE DATE OF THE DESIGN. ANY DESIGN 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.

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Haines City, FL 33844
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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.

Plates sized for a minimum of 3.00 sq.in./piece.

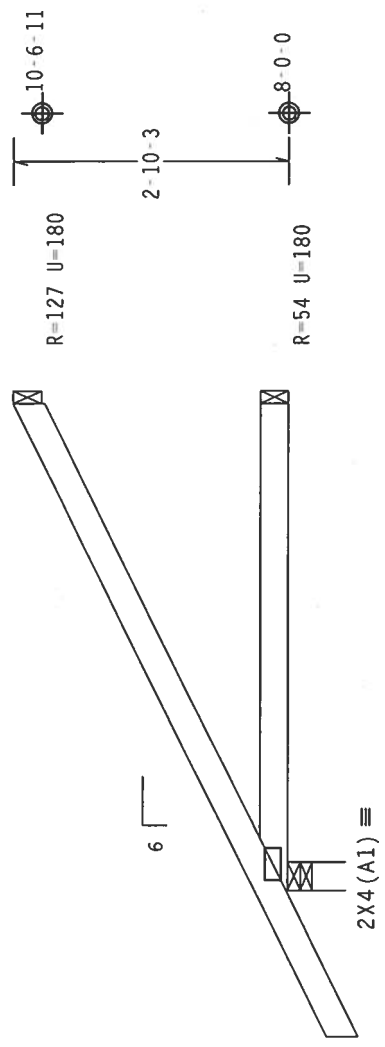
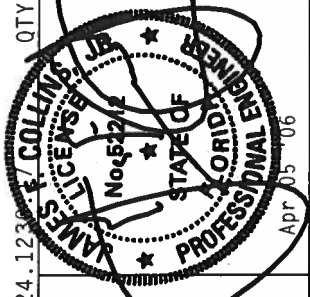


Diagram illustrating the dimensions and support locations for a beam:

- Overall length: 16.0
- Support locations: 5.0 and 0.0 (over 3 supports)
- Dimensions: R=331, U=180, W=3.5"

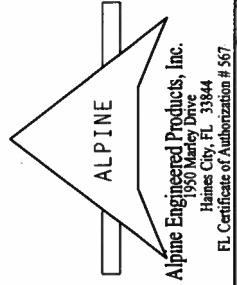
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/

FL / - / 5 / - / - / R / -		Scale = 5" / Ft.	
TC LL	20.0 PSF	REF	R215 - - 20397
TC DL	10.0 PSF	DATE	04/05/06
BC DL	10.0 PSF	DRW	HCUSR215 06095048
BC LL	0.0 PSF	HC-ENG	MNM/WHK *
TOT.LD.	40.0 PSF	SEQN-	116114
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1SW42115_Z05



*****WARNING***** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BGS1 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 5903 D'ONOFIO DR., SUITE 200, MADISON, WI 53719) AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE IN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE ATTACHED TO 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. PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALTHOUGH CONNECTOR PLATES ARE MADE OF 20/18/16GA. (W./H./S/K) ASTM A653 GRADE 40/60 (W. K./H./S.) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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.

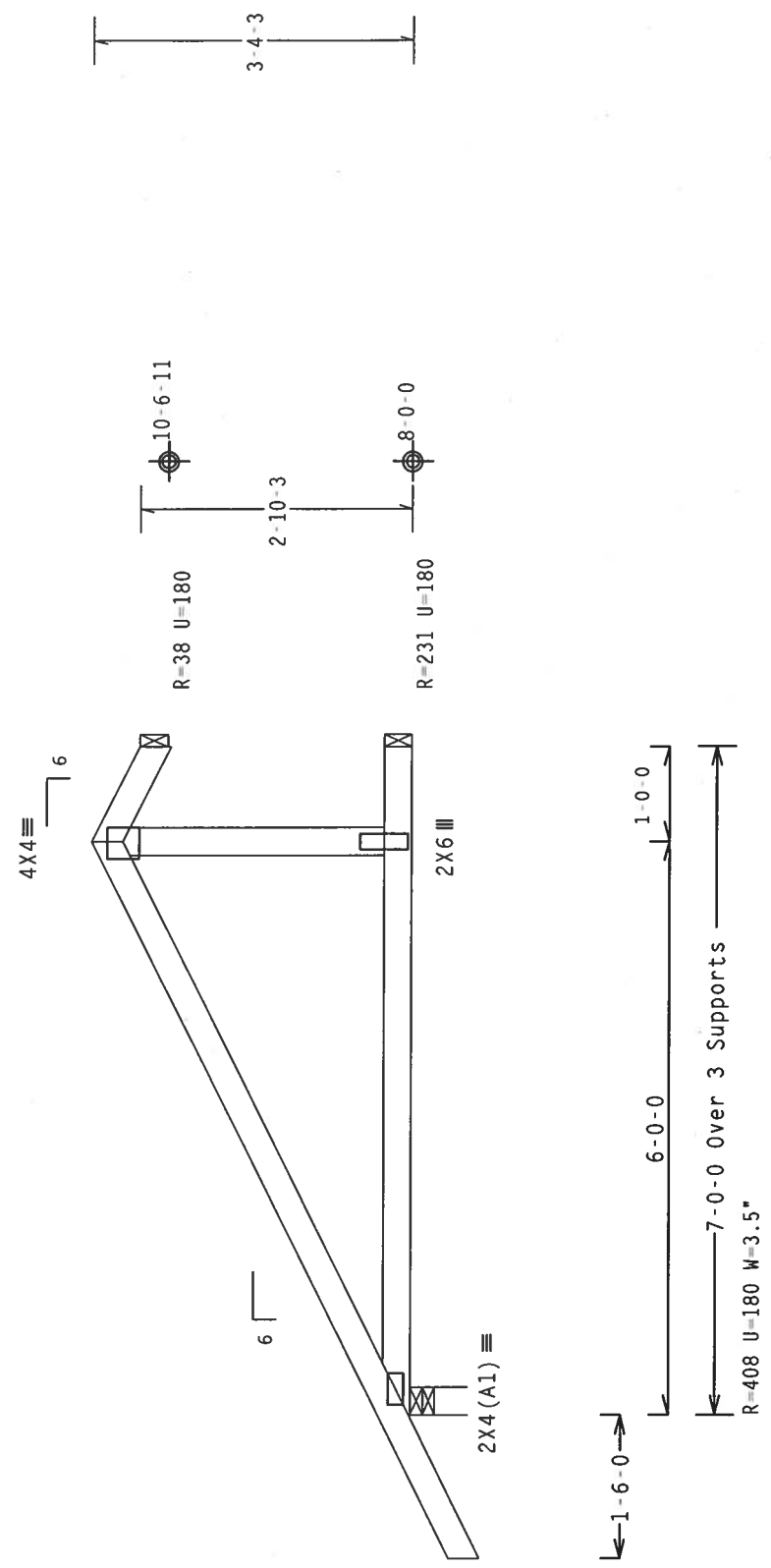


Top chord	2x4	SP	#2 N
Bot chord	2x4	SP	#2 N
webs	2x4	SP	#2 N

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.

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

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave/R

Scale = .5" / Ft.

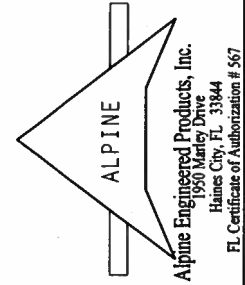
	TC LL	20.0	PSF	REF R215 - 20398
	TC DL	10.0	PSF	DATE 04/05/06
	BC DL	10.0	PSF	DRW HCUSR215 06095049
	BC LL	0.0	PSF	HC-ENG MNM/WHK *
	TOT.LD.	40.0	PSF	SEQN- 116129
	DUR.FAC.	1.25		FROM CDM
	SPACING	24.0"		JREF- 1SW4215_Z05

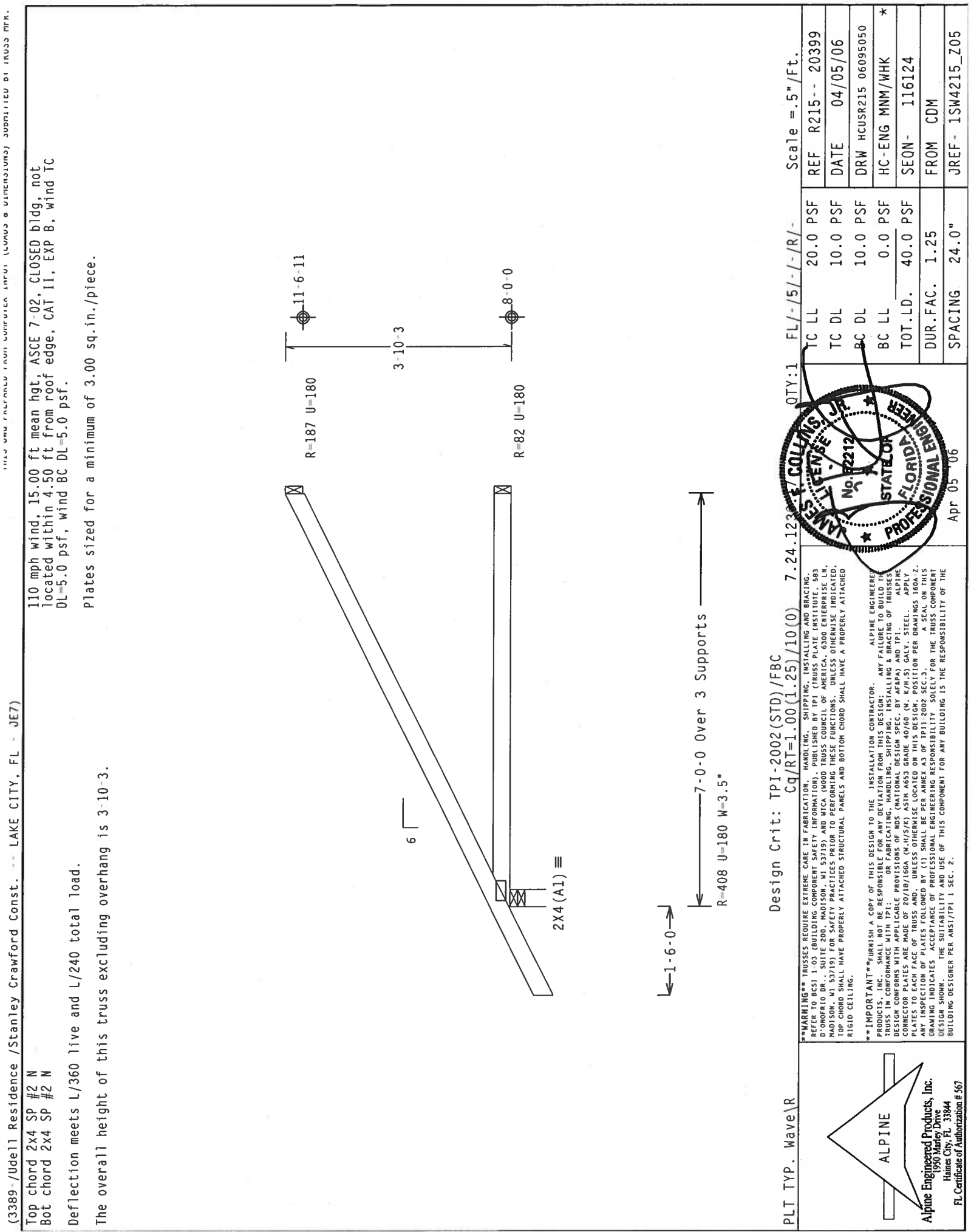


****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFIO RD., SUITE 200, MADISON, WI 53719) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN., MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

*****IMPORTANT***** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED TRUSSES, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TP1-2002 SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ALL PLATING SHALL BE PER ANSIP/TPI 1 SEC. 2.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W./M./THICK) ASTM A653 GRADE 40/60 (W./K./S) GALV. STEEL. APPLIED TO EACH PLATE TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A. PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A. 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 ANSIP/TPI 1 SEC. 2.





(3389-/Udell Residence /Stanley Crawford Const. - LAKE CITY, FL - JE7)

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

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

The overall height of this truss excluding overhang is 3-10-3.

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

Plates sized for a minimum of 3.00 sq.in./piece.

THIS DRAWING IS THE PROPERTY OF THE ENGINEER. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

PLT TYP. Wave\R

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230

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

REF	R215--	20399
DATE	04/05/06	
DRW	HCUSR215	06095050
HC-ENG	MNM/WHK	*
SEQN-	116124	
FROM	CDM	
JREF-	1SW4215_Z05	

6

2X4 (A1) ≡

7-0-0 Over 3 Supports

R-408 U-180 W-3.5"

1-6-0

11-6-11

3-10-3

8-0-0

R-187 U-180

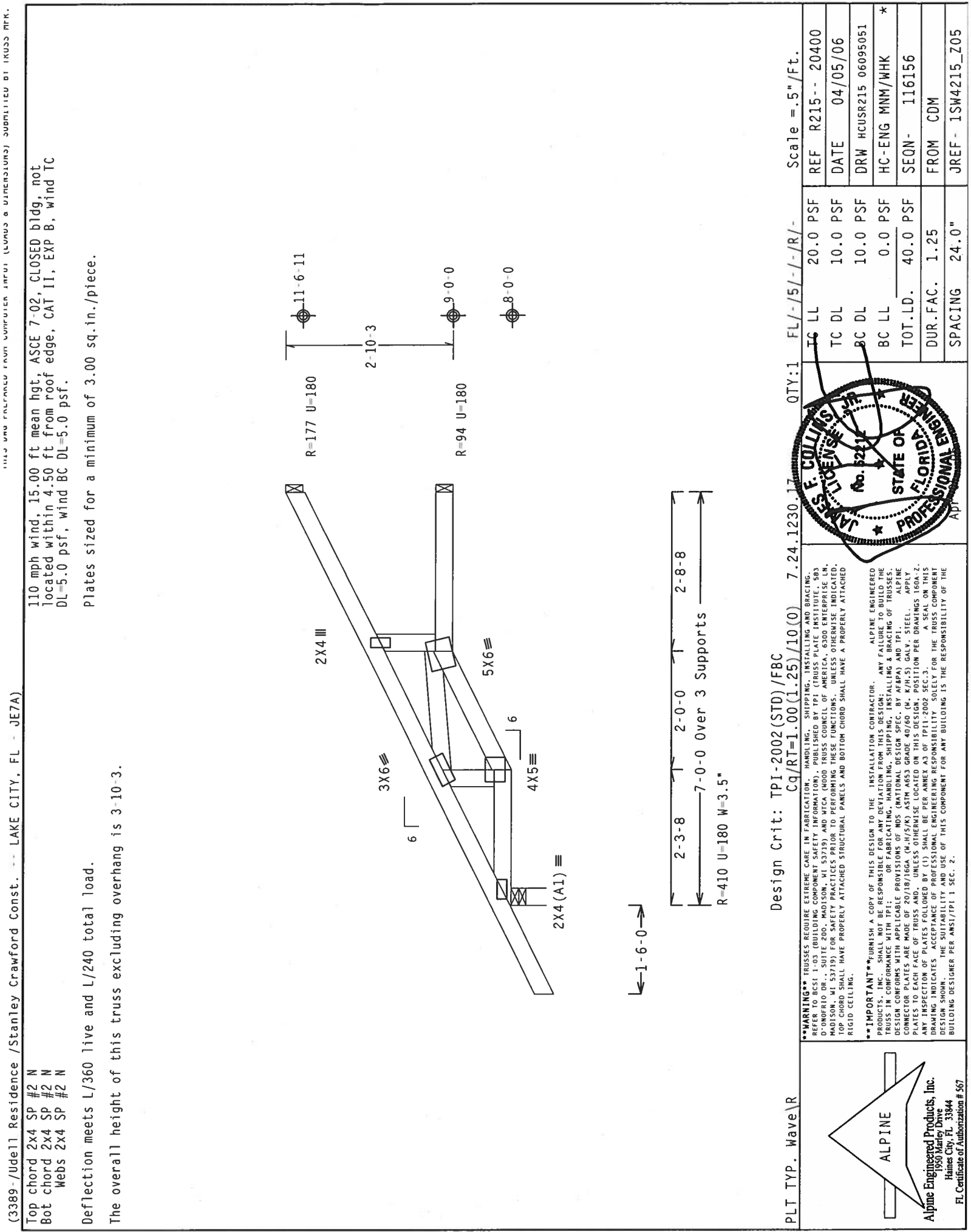
R-82 U-180

ALPINE ENGINEERED PRODUCTS, INC. STATE OF FLORIDA PROFESSIONAL ENGINEER

No. 02212

APR 05 '06

ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE CONNECTIONS THEREOF. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



(3389-/Ude1l Residence /Stanley Crawford Const. -- LAKE CITY, FL - JE7A)

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

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

The overall height of this truss excluding overhang is 3-10-3.

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

Plates sized for a minimum of 3.00 sq.in./piece.

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.24.1230.17

Scale = .5" /Ft.

PLT TYP. Wave\R

QTY:1 FL/-/5/-/-/R/-

REF R215-- 20400

DATE 04/05/06

DRW HCUSR215 06095051

HC-ENG MNM/WHK

SEQN 116156

FROM CDM

JREF 1SW4215_Z05

ALPINE

Alpine Engineered Products, Inc.

1950 Marley Drive

Haines City, FL 33844

FL Certificate of Authorization # 567

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2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Box_or_Gun_(0.128"x3",_min.)_nails)

Top Chord: 1 Row @12.00" o.c.

Bot Chord: 1 Row @ 3.50" o.c.

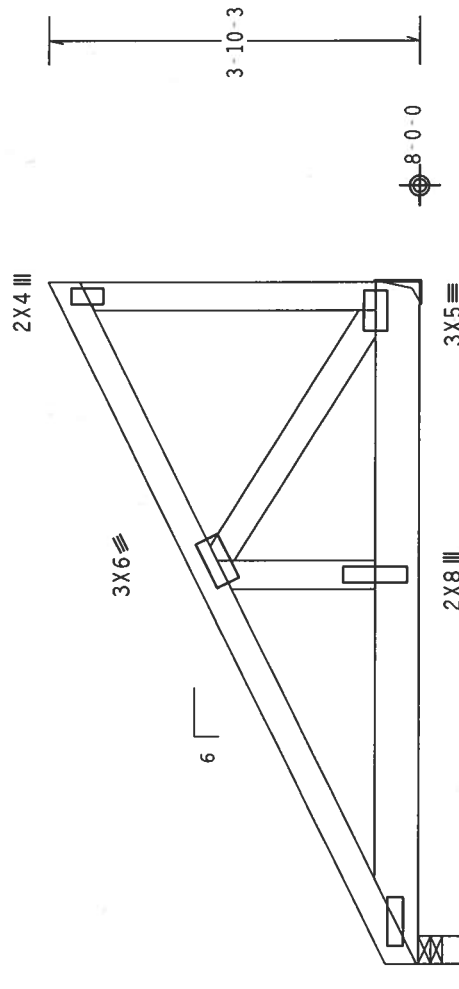
Webs : 1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 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.

Plates sized for a minimum of 3.00 sq.in./piece.



R=1992 U=180 W=3.5"

R=1539 U-180 H=Simpson HGUS26-2
w/ (6) 16d, 0.162"x2.5" nails in Truss
w/ (20) 16d, 0.162"x2.5" nails in Girder
Girder is (2)2X6 min. So.Pine

7-0-0 Over 2 Supports

Design Crit: TPI-2002(STD)/FBC

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R215 -	20402
TC DL	10.0 PSF	DATE	04/05/06	
BC DL	10.0 PSF	DRW	HCUSR215	06095073
BC LL	0.0 PSF	HC-ENG	MNM/WHK	
TOT.LD.	40.0 PSF	SEQN-	116185	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1SW4215_Z05	

WARNING: THUSSES REQUIRE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TP INDUSTRIES, INC., 383 D'OFFICIO DR., SUITE 200, MADISON, WI 53719, AND WTA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE, N. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS
DESIGNERS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE
TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE
CONNECTOR PLATES ARE MADE OF 20/18/166GA. (M/TH/25%) ASTM A653 GRADE 40/60 (M. Y/M/SI) GALV. STEEL.
PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A OF TPI-2002 SEC.3.
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

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # S67

FL Certificate of Authorization # 567

(3389 - Juddell Residence / Stanley Crawford Const. - LAKE CITY, FL - JH10)

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

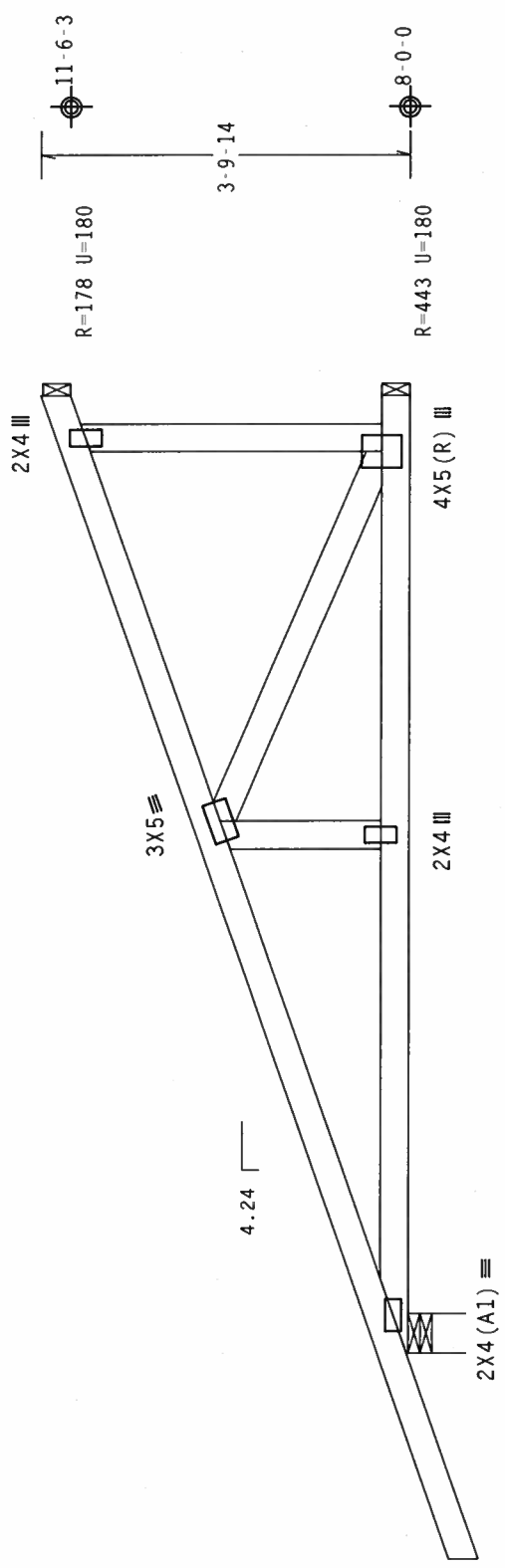
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

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

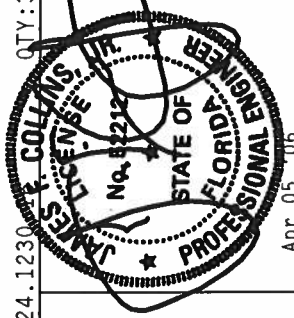
Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 3'-9"-14".



2-1-7
9-10-13 Over 3 Supports
R=461 U=180 W=4.95

PLT TYP. Wave/R
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1230



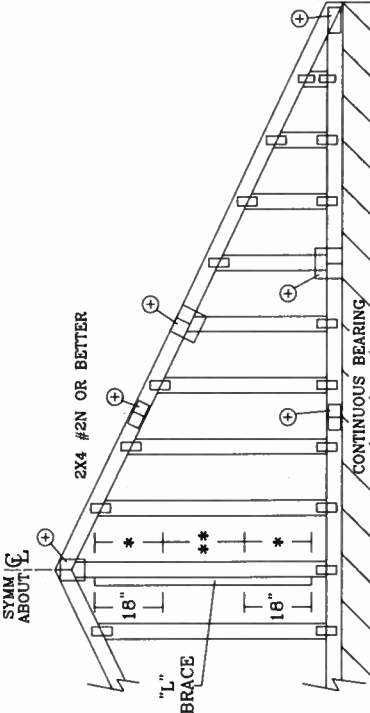
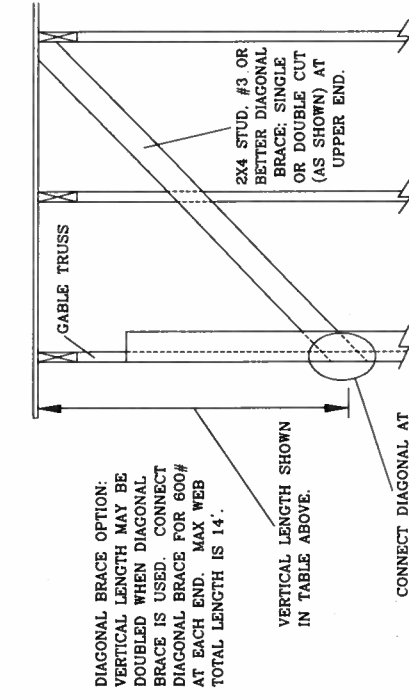
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TRUSS MANUFACTURER'S INSTRUCTIONS FOR THE PROPER INSTALLATION OF THE TRUSS. THE TRUSS IS TO BE INSTALLED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS AND THE TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DRIVE, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W-N/S/K) ASTM A653 GRADE 40/60 (W. K/M.5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. 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.

Alpine Engineered Products, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

QTY: 3	FL / - / 5 / - / R / -	Scale = .5" / Ft.
TC LL	20.0 PSF	REF R215 - 20403
TC DL	10.0 PSF	DATE 04/05/06
BC DL	10.0 PSF	DRW HCUSR215 06095007
BC LL	0.0 PSF	HC-ENG EC/AP
TOT.LD.	40.0 PSF	SEQN - 106976
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	JREF - 1SW4215_Z05

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



BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH

#3	STUD
STANDARD	STANDARD

GROUP B:

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

SOUTHERN PINE

#1	STUD
#2	STANDARD

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 16" END ZONES AND 4" O.C. BETWEEN ZONES.

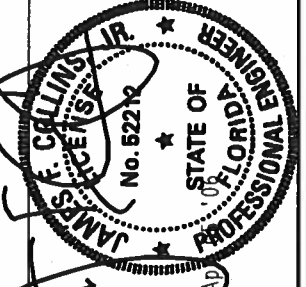
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"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.

REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

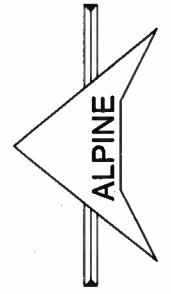


WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTION. REFER TO BEST AVAILABLE BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 DUNDORF DR., SUITE 200, MADISON, WI 53719, AND VITA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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 ENGINEERING PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO FOLLOW THIS DESIGN OR ANY OTHER DESIGN REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE BUILDING OFFICIALS. DESIGN CONTRACTORS WITH PREPARED TRUSSES SHALL BE RESPONSIBLE FOR THE TRUSS BY APAP (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE 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.

REF	ASCE7-02-CAB11015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	

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



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

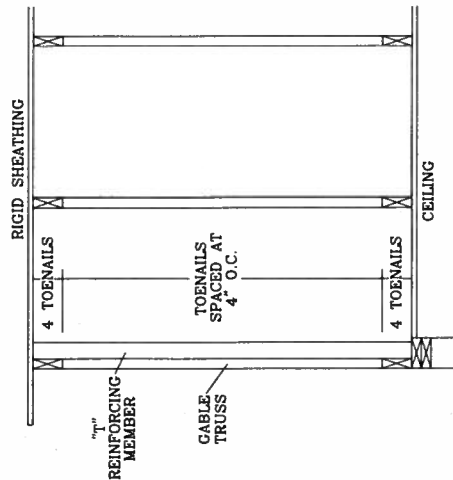
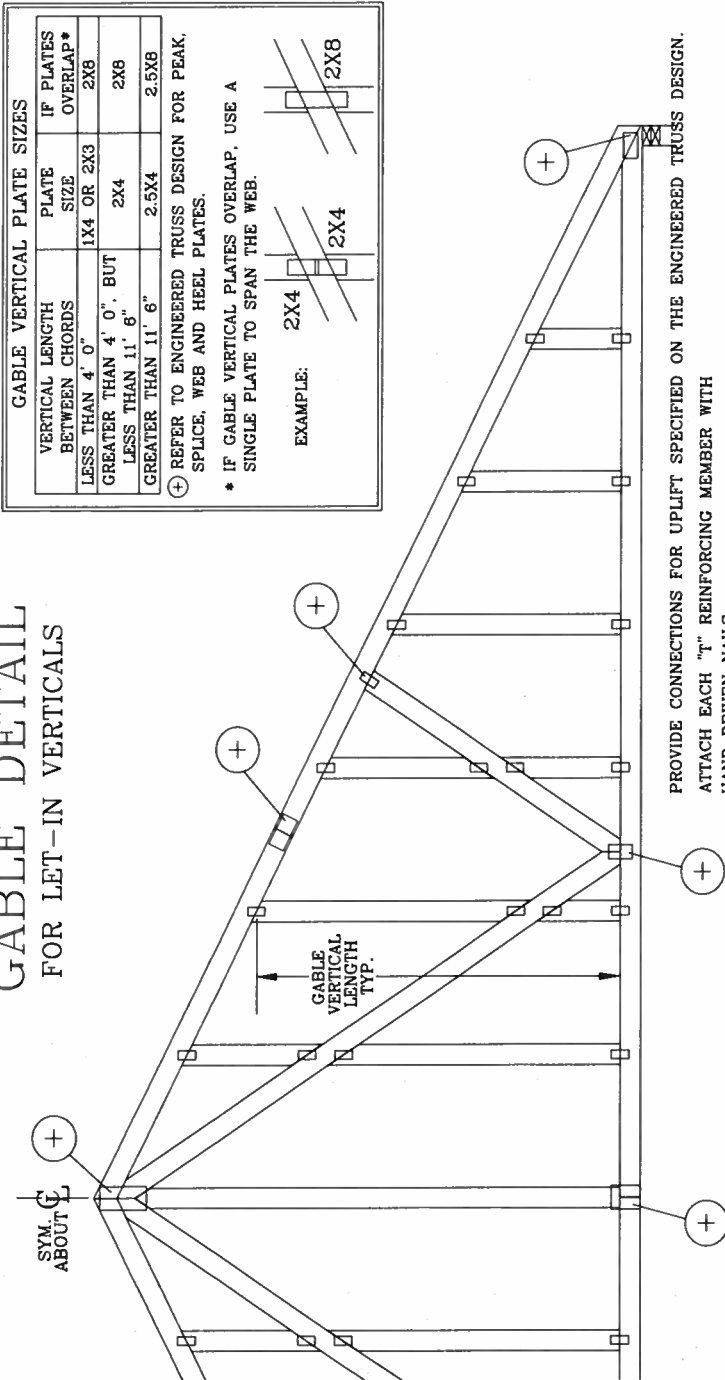
GABLE DETAIL FOR LET-IN VERTICALS

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

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

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

EXAMPLE: 2X4 2X8 2X8



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

HAND DRIVEN NAILS:

10d COMMON (0.148" X 3.3" 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

A10105EN1103, A09015EN1103, A08015EN1103, A07015EN1103

A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015EC1103, A12015EC1103, A11015EC1103, A08015EC1103

A13030EC1103, A12030EC1103, A11030EC1103, A08030EC1103

ASCE 7-02 GABLE DETAIL DRAWINGS

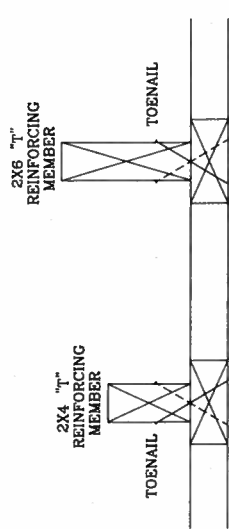
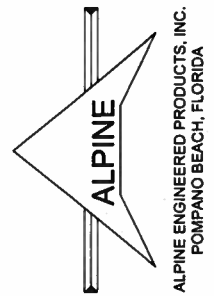
A13015EE0405, A12015EE0405, A11015EE0405, A08015EE0405, A07015EE0405

A13030EE0405, A12030EE0405, A11030EE0405, A08030EE0405, A07030EE0405

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 DUNFORD DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERS PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI 1-2008 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



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 15 FT	2x4	10 %	10 %
110 MPH 30 FT	2x6	40 %	50 %
100 MPH 15 FT	2x4	10 %	10 %
100 MPH 30 FT	2x6	50 %	50 %
100 MPH 15 FT	2x4	10 %	10 %
100 MPH 30 FT	2x6	30 %	50 %
90 MPH 15 FT	2x4	10 %	10 %
90 MPH 30 FT	2x6	40 %	40 %
80 MPH 15 FT	2x4	20 %	40 %
80 MPH 30 FT	2x6	10 %	10 %
70 MPH 15 FT	2x4	10 %	20 %
70 MPH 30 FT	2x6	10 %	20 %

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"

DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLETTIN0405
-ENG	DLJ/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

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.

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.

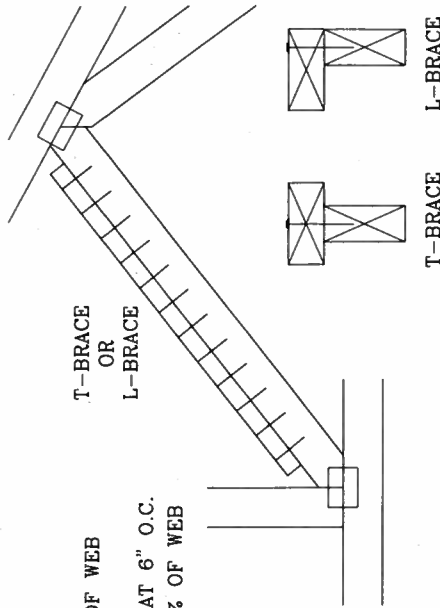
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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

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

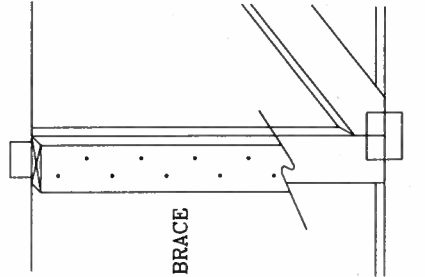
T-BRACING
OR
L-BRACING:

APPLY TO EITHER SIDE OF WEB
NARROW FACE
ATTACH WITH 16d NAILS AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB
MEMBER LENGTH

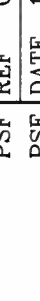


SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d OR .128"x3" GUN
NAILS AT 6" O.C. BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579.640



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

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APR 15 2006

STATE OF FLORIDA

PROFESSIONAL ENGINEER

EXPIRATION DATE

NO. 62212

CHAS. P. COLLINS, JR.

TC LL	PSF	REF	CLB	SUBST.
TC DL	PSF	DATE	11/26/03	
BC DL	PSF	DRWG	BRLCLSUB1103	
C LL	PSF	- ENG	MLH/KAR	
OT. LD.	PSF			
DUR. FAC.				
SPACING				