DATE · 02/06/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000024112

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER SPARKS CONTRACTORS, INC. PHONE 755-9314

ADDRESS 187 SW MARNING GLORY DR LAKE CITY FL 32024

CONTRACTOR SPRAKS CONTRACTORS PHONE 752-2281

LOCATION OF PROPERTY 90 W, L ON 341, R HOPE HEMRY, R SW MORNING GLORY, 4TH LOT ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 92250.00

HEATED FLOOR AREA 1845.00 TOTAL AREA 2380.00 HEIGHT 19.40 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 8-12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO.

PARCEL ID 15-4S-16-03023-504 SUBDIVISION ROLLING MEADOWS

LOT 4 BLOCK PHASE UNIT TOTAL ACRES 0.49

000000963 | | CBC1252260 | Applicant/Owner/Contractor

Culvert Permit No. | Culvert Waiver | Contractor's License Number

PERMIT | 05-1274-N | BK | JH | N

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

COMMENTS: MINIMUM FLOOR ELEVATION IS SET AT 104', NEED ELEVATION LETTER BEFORE SLAB, NOC ON FILE

Check # or Cash 3170

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by | Foundation date/app. by | Monolithic date/app. by

Under slab rough-in plumbing date/app. by | Slab date/app. by | Sheathing/Nailing date/app. by

Framing date/app. by | Rough-in plumbing above slab and below wood floor date/app. by

Electrical rough-in date/app. by | Heat & Air Duct date/app. by | Peri. beam (Lintel) date/app. by

Permanent power date/app. by | C.O. Finall date/app. by | Culvert date/app. by

M/H tie downs, blocking, electricity and plumbing date/app. by | Pool date/app. by

Reconnection date/app. by | Pump pole date/app. by | Utility Pole date/app. by

M/H Pole date/app. by | Travel Trailer date/app. by | Re-roof date/app. by

BUILDING PERMIT FEE $ 465.00 CERTIFICATION FEE $ 11.90 SURCHARGE FEE $ 11.90

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 588.80

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.

Lot 4 Dale Meadows Rolling

Called 3170

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0512-57 Date Received 12-27-05 By LH Permit # 24112 / 963

Application Approved by - Zoning Official BLK Date 28.12.05 Plans Examiner OKSTH Date 12-28-05

Flood Zone X Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res Low Den.

Comments M.F.E. 104' Per PLAT Elevation letter Required

Applicants Name Linda Roder Phone 752-2281

Address 387 S.W. Kemp Ct. Lake City FL 32024

Owners Name Sparks Contractors, Inc. Phone 623-0575

911 Address 187 S.W. Morning Glory Dr Lake City FL 32024

Contractors Name Sparks Contractors Inc. Phone 755-9314

Address P.O. Box 1479 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Ben Sparks / Mark Disosway

Mortgage Lenders Name & Address NA

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

Property ID Number 15-4S-16E 03023-504 Estimated Cost of Construction 154,000

Subdivision Name Rolling Meadows Lot 4 Block ____ Unit ____ Phase ____

Driving Directions 90 W. Lon 341 (Sisters Welcome) R at Hope Henry, R on S.W. Morning Glory Dr. 4th Lot on L

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage ____ Lot Size 649 Do you need a (Culvert Permit) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 37' Side 29.5' Side 29.5' Rear 91'

Total Building Height 19'4" Number of Stories 1 Heated Floor Area 1845 Roof Pitch 8-12

Porch 41 Garage 494 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 COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Linda R. Roder

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 5 day of December 20 05.

Personally known ✓ or Produced Identification ____

NOTARY PUBLIC STATE OF FLORIDA Commission #DD303275 Expires: Mar 24, 2008 Bonded Thru Atlantic Bonding Co., Inc.

Contractor Signature

Contractors License Number CBC1252260

Competency Card Number ____

NOTARY STAMP/SEAL

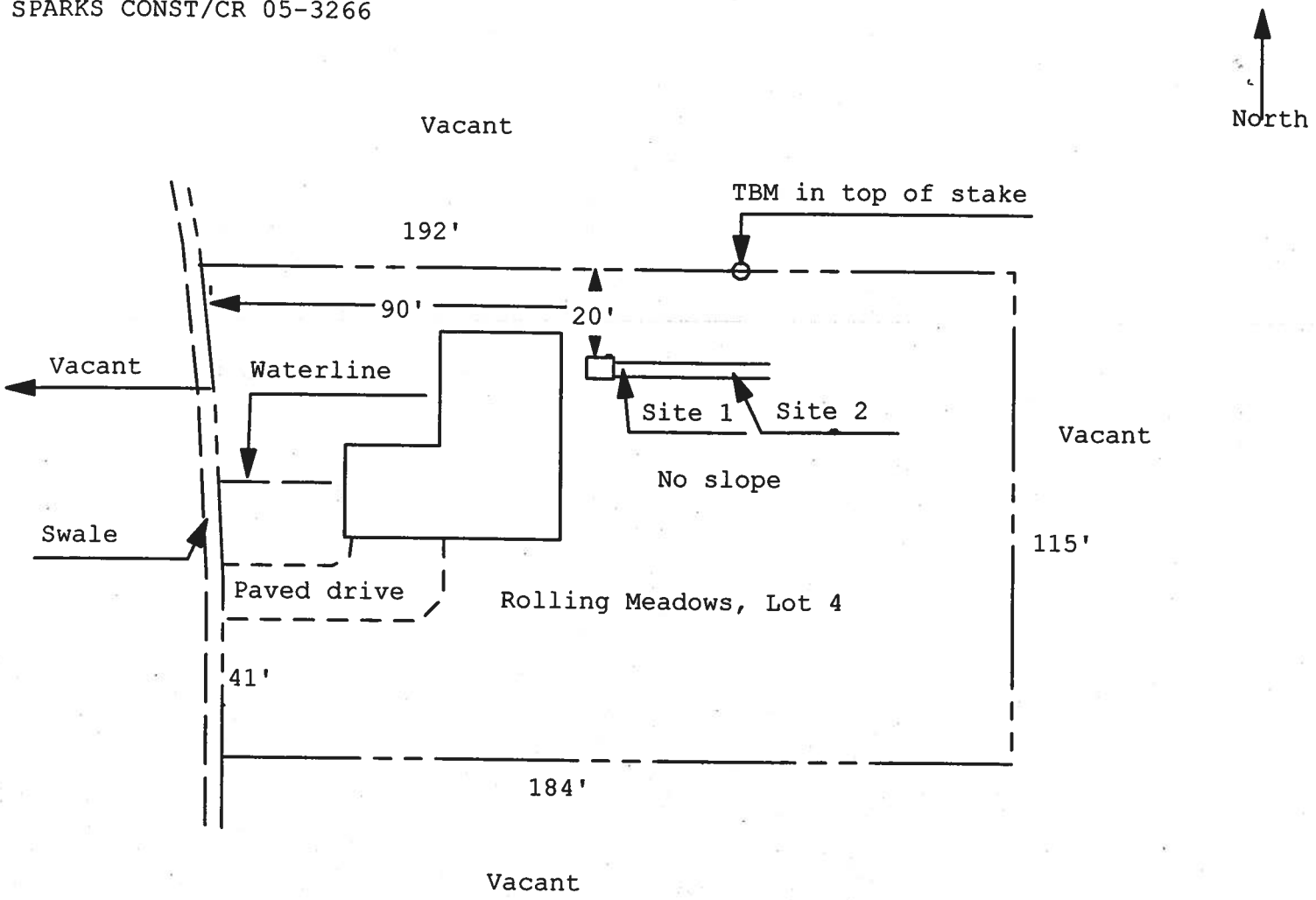
Notary Signature

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

Permit Application Number: 05-1274N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SPARKS CONST/CR 05-3266



Public water

1 inch = 40 feet

Site Plan Submitted By Paul Lloyd **Date** 12/1/05

Plan Approved X **Not Approved** ____ **Date** ____

By Sallie Gaddy · ESI. Columbia **CPHU**

Notes: ____

This instrument prepared by:
William J. Haley, Esquire
Brannon, Brown,
Haley & Bullock, P. A.
P. O. Box 1029
Lake City, FL 32056-1029

Inst:200503197O Date:12/27/2005 Time:11:48
Doc Stamp-Deed : 390.60
DC,P.DeWitt Cason,Columbia County B:1069 P:903

SPECIAL WARRANTY DEED

THIS INDENTURE, made this 22 day of December, 2006, between **JERRY COOK,** a married man, who does not reside on the property, but who resides at 314 Cannon Creek Drive, Lake City, Florida 32055, hereinafter referred to as Grantor, and **SPARKS CONTRACTORS, INC,** a Florida corporation, having a mailing address of 162 SW Country Court, Lake City FL 32024, hereinafter referred to as Grantee.

WITNESSETH: That said Grantor, for and in consideration of the sum of $10.00 and other good and valuable considerations to said Grantor in hand paid by said Grantee, the receipt and sufficiency of which are hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's successors and assigns forever, the following described land, situate, lying and being in **Columbia** County, Florida, to-wit:

Lot(s) 2 and 4, **ROLLING MEADOWS,** a subdivision according to the plat thereof, as recorded in Plat Book 8, pages 45 and 46, public records of Columbia County, Florida.

PARCEL NO. Part of 15-4S-16-03023-005

SUBJECT TO: Taxes and special assessments for the year 2006 and subsequent years; restrictions, reservations, rights of way for public roads, easements of record, if any; and zoning and any other governmental restrictions regulating the use of the lands.

SUBJECT TO: That certain Mortgage to Peoples State Bank dated November 16, 2005, recorded November 17, 2005 in Official Records Book 1065, page 1012, public records of Columbia County, Florida

and said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons claiming by, through or under said Grantor.

IN WITNESS WHEREOF, Grantor has hereunto set its hand and seal the day and year first above written.

Inst:2005031970 Date:12/27/2005 Time:11:48
Doc Stamp-Deed : 390.60
DC,P.DeWitt Cason,Columbia County B:1069 P:904

Signed, sealed and delivered
in the presence of:

Print Name: Josh Sparks

Jerry Cook

Print Name:

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 23 day of December, 2005, by Jerry Cook, who is personally known to me or whom produced _____, as identification.

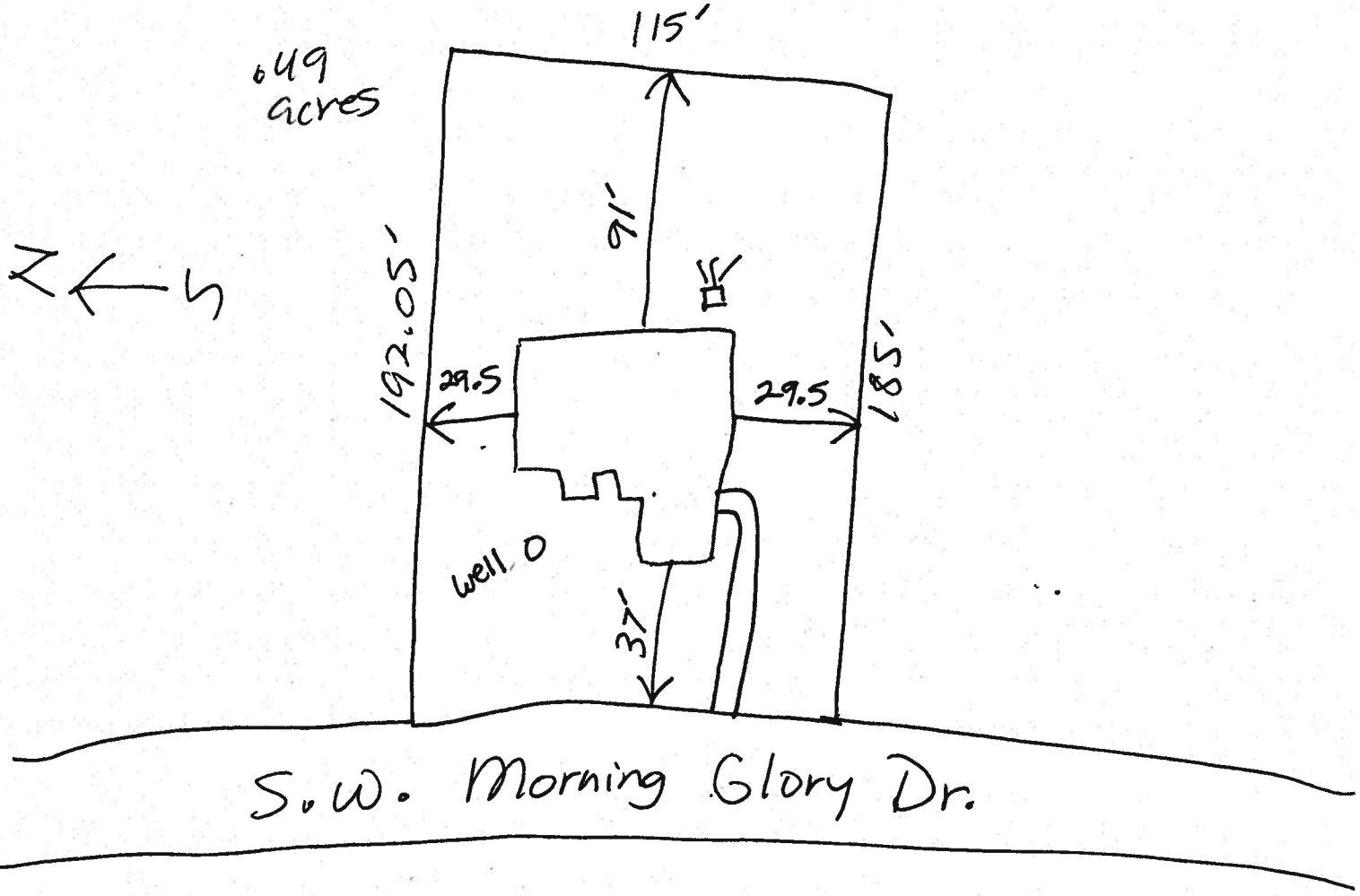
Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Notary Public, State of Florida

F:\WPDOCS\22032\00014\00151663.WPD

Site Plan

Lot 4 Rolling Meadows



FORM 600A-2004 EnergyGauge® 4.0

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**511235SparksConstruction**	Builder:	Sparks Contractors
Address:	**Lot: 4, Sub: Rolling Meadows, Plat:**	Permitting Office:	24112
City, State:	**, FL**	Permit Number:	Columbia County
Owner:	**SpecHouse**	Jurisdiction Number:	221000
Climate Zone:	**North**		

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)	1845 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description Area (Dble Default) 224.4 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 224.4 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 161.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Face Brick, Wood, Exterior	R=13.0, 2140.0 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2049.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 136.0 ft	
b.	N/A		
12.	Cooling systems		
a.	Central Unit	Cap: 44.0 kBtu/hr SEER: 11.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 44.0 kBtu/hr HSPF: 7.40	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 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: 0.15 Total as-built points: 29226 Total base points: 29941 **PASS**

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

PREPARED BY: Ben Sparks

DATE: 11-28-05

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

OWNER/AGENT: Spec House

DATE: 12-5-05

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

BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1845.0	20.04	6655.3	Double, Clear	W	1.5	6.0	15.0	38.52	0.91	527.8	
				Double, Clear	W	1.5	6.0	45.0	38.52	0.91	1583.4	
				Double, Clear	W	1.5	4.0	6.0	38.52	0.82	189.0	
				Double, Clear	W	1.5	5.0	16.0	38.52	0.88	539.7	
				Double, Clear	N	1.5	5.0	16.0	19.20	0.92	281.3	
				Double, Clear	N	1.5	6.0	30.0	19.20	0.94	540.7	
				Double, Clear	E	1.5	6.0	15.0	42.06	0.91	575.9	
				Double, Clear	E	0.0	0.0	4.5	42.06	1.00	189.3	
				Double, Clear	E	0.0	0.0	13.3	42.06	1.00	560.9	
				Double, Clear	E	0.0	0.0	15.0	42.06	1.00	631.0	
				Double, Clear	E	0.0	0.0	13.5	42.06	1.00	567.9	
				Double, Clear	E	0.0	0.0	12.0	42.06	1.00	504.8	
				Double, Clear	E	0.0	0.0	30.0	42.06	1.00	1261.9	
				Double, Clear	S	1.5	6.0	30.0	35.87	0.86	921.2	
				Double, Clear	E	6.5	3.0	4.5	42.06	0.38	72.7	
				Double, Clear	W	1.5	9.0	20.0	38.52	0.97	747.6	
				As-Built Total:				**285.8**			**9694.9**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Face Brick, Wood, Exterior	13.0	2140.0	0.35	749.0
Exterior	2140.0	1.70	3638.0					
Base Total:	**2140.0**		**3638.0**	**As-Built Total:**		**2140.0**		**749.0**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	2.40	48.0	Exterior Insulated	20.0	4.10	82.0
Exterior	40.0	6.10	244.0	Adjacent Insulated	20.0	1.60	32.0
				Exterior Insulated	20.0	4.10	82.0
Base Total:	**60.0**		**292.0**	**As-Built Total:**	**60.0**		**196.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	1845.0	1.73	3191.9	Under Attic	30.0	2049.0	1.73 X 1.00	3544.8
Base Total:	**1845.0**		**3191.9**	**As-Built Total:**		**2049.0**		**3544.8**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE					AS-BUILT					
FLOOR TYPES	Area X	BSPM	=	Points	Type	R-Value	Area X	SPM	=	Points
Slab	161.0(p)	-37.0		-5957.0	Slab-On-Grade Edge Insulation	0.0	161.0(p	-41.20		-6633.2
Raised	0.0	0.00		0.0						
Base Total:				**-5957.0**	**As-Built Total:**		**161.0**			**-6633.2**
INFILTRATION	Area X	BSPM	=	Points			Area X	SPM	=	Points
	1845.0	10.21		18837.4			1845.0	10.21		18837.4
Summer Base Points: 26657.6					**Summer As-Built Points:**					**26388.9**
Total Summer Points	X System Multiplier	= Cooling Points			Total Component (System - Points)	X Cap Ratio	Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
					(sys 1: Central Unit 44000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
					26389	1.00	(1.09 x 1.147 x 1.00)	0.310	1.000	10236.6
26657.6	**0.4266**	**11372.1**			**26388.9**	**1.00**	**1.250**	**0.310**	**1.000**	**10236.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BWPM	= Points
.18	1845.0	12.74	4231.0

WALL TYPES

	Area	X BWPM	= Points
Adjacent	0.0	0.00	0.0
Exterior	2140.0	3.70	7918.0
Base Total:	**2140.0**		**7918.0**

DOOR TYPES

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

CEILING TYPES

	Area	X BWPM	= Points
Under Attic	1845.0	2.05	3782.3
Base Total:	**1845.0**		**3782.3**

AS-BUILT

GLASS TYPES

Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF =	Points
Double, Clear	W	1.5	6.0	15.0	20.73	1.02	318.2
Double, Clear	W	1.5	6.0	45.0	20.73	1.02	954.7
Double, Clear	W	1.5	4.0	6.0	20.73	1.05	131.0
Double, Clear	W	1.5	5.0	16.0	20.73	1.03	343.2
Double, Clear	N	1.5	5.0	16.0	24.58	1.00	394.7
Double, Clear	N	1.5	6.0	30.0	24.58	1.00	739.1
Double, Clear	E	1.5	6.0	15.0	18.79	1.04	291.9
Double, Clear	E	0.0	0.0	4.5	18.79	1.00	84.6
Double, Clear	E	0.0	0.0	13.3	18.79	1.00	250.6
Double, Clear	E	0.0	0.0	15.0	18.79	1.00	281.9
Double, Clear	E	0.0	0.0	13.5	18.79	1.00	253.7
Double, Clear	E	0.0	0.0	12.0	18.79	1.00	225.5
Double, Clear	E	0.0	0.0	30.0	18.79	1.00	563.8
Double, Clear	S	1.5	6.0	30.0	13.30	1.12	445.8
Double, Clear	E	6.5	3.0	4.5	18.79	1.46	123.7
Double, Clear	W	1.5	9.0	20.0	20.73	1.01	417.8
As-Built Total:				**285.8**			**5820.1**

WALL TYPES

Type	R-Value	Area X	WPM =	Points
Face Brick, Wood, Exterior	13.0	2140.0	3.17	6794.5
As-Built Total:		**2140.0**		**6794.5**

DOOR TYPES

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

CEILING TYPES

Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	30.0	2049.0	2.05 X 1.00	4200.4
As-Built Total:		**2049.0**		**4200.4**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	=	Points
Slab	161.0(p)	8.9	1432.9	Slab-On-Grade Edge Insulation	0.0	161.0(p	18.80		3026.8
Raised	0.0	0.00	0.0						
Base Total:			**1432.9**	**As-Built Total:**		**161.0**			**3026.8**
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	=	Points
	1845.0	-0.59	-1088.5			1845.0	-0.59		-1088.5
Winter Base Points:			**16997.6**	**Winter As-Built Points:**					**19249.3**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
				(sys 1: Electric Heat Pump 44000 btuh ,EFF(7.4) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
				19249.3	1.000	(1.069 x 1.169 x 1.00)	0.461	1.000	11084.9
16997.6	**0.6274**	**10664.3**		**19249.3**	**1.00**	**1.250**	**0.461**	**1.000**	**11084.9**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3		2635.00	7905.0	40.0	0.92	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	
11372	**10664**	**7905**	**29941**		**10237**	**11085**	**7905**	**29226**	

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 4, Sub: Rolling Meadows, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 82.8

The higher the score, the more efficient the home.

SpecHouse, Lot: 4, Sub: Rolling Meadows, Plat: , , FL,

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)	1845 ft²			
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
a.	U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default)	Area 224.4 ft²		
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear)	224.4 ft²		
8.	Floor types				
a.	Slab-On-Grade Edge Insulation	R=0.0, 161.0(p) ft			
b.	N/A				
c.	N/A				
9.	Wall types				
a.	Face Brick, Wood, Exterior	R=13.0, 2140.0 ft²			
b.	N/A				
c.	N/A				
d.	N/A				
e.	N/A				
10.	Ceiling types				
a.	Under Attic	R=30.0, 2049.0 ft²			
b.	N/A				
c.	N/A				
11.	Ducts				
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 136.0 ft			
b.	N/A				
12.	Cooling systems				
a.	Central Unit		Cap: 44.0 kBtu/hr		
			SEER: 11.00		
b.	N/A				
c.	N/A				
13.	Heating systems				
a.	Electric Heat Pump		Cap: 44.0 kBtu/hr		
			HSPF: 7.40		
b.	N/A				
c.	N/A				
14.	Hot water systems				
a.	Electric Resistance		Cap: 40.0 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)				

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

Builder Signature: _____ Date: _____

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

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

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

BUILDING INPUT SUMMARY REPORT

PROJECT

Title:	511235SparksConstruction	**Family Type:**	Single	**Address Type:**	Lot Information
Owner:	SpecHouse	**New/Existing:**	New	**Lot #:**	4
# of Units:	1	**Bedrooms:**	3	**Subdivision:**	Rolling Meadows
Builder Name:	(blank)	**Conditioned Area:**	1845	**Platbook:**	(blank)
Climate:	North	**Total Stories:**	1	**Street:**	N/A
Permit Office:	(blank)	**Worst Case:**	Yes	**County:**	Columbia
Jurisdiction #:	(blank)	**Rotate Angle:**	(blank)	**City, St, Zip:**	, FL,

FLOORS

#	Floor Type	R-Val	Area/Perimeter	Units
1	Slab-On-Grade Edge Insulation	0.0	161.0(p) ft	1

DOORS

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

CEILINGS

#	Ceiling Type	R-Val	Area	Base Area	Units
1	Under Attic	30.0	2049.0 ft²	1845.0 ft²	1

Credit Multipliers: None

COOLING

#	System Type	Efficiency	Capacity
1	Central Unit	SEER: 11.00	44.0 kBtu/hr

Credit Multipliers: None

WALLS

#	Wall Type	Location	R-Val	Area	Units
1	Face Brick - Wood	Exterior	13.0	2140.0 ft²	1

HEATING

#	System Type	Efficiency	Capacity
1	Electric Heat Pump	COP: 7.40	44.0 kBtu/hr

Credit Multipliers: None

WINDOWS

#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
1	Double	Clear	N	15.0 ft²	1.5 ft	6.0 ft	1
2	Double	Clear	N	45.0 ft²	1.5 ft	6.0 ft	1
3	Double	Clear	N	6.0 ft²	1.5 ft	4.0 ft	1
4	Double	Clear	N	16.0 ft²	1.5 ft	5.0 ft	1
5	Double	Clear	E	16.0 ft²	1.5 ft	5.0 ft	1
6	Double	Clear	E	15.0 ft²	1.5 ft	6.0 ft	2
7	Double	Clear	S	15.0 ft²	1.5 ft	6.0 ft	1
8	Double	Clear	S	4.5 ft²	0.0 ft	0.0 ft	1
9	Double	Clear	S	6.7 ft²	0.0 ft	0.0 ft	2
10	Double	Clear	S	15.0 ft²	0.0 ft	0.0 ft	1
11	Double	Clear	S	6.8 ft²	0.0 ft	0.0 ft	2
12	Double	Clear	S	4.0 ft²	0.0 ft	0.0 ft	3
13	Double	Clear	S	30.0 ft²	0.0 ft	0.0 ft	1
14	Double	Clear	W	15.0 ft²	1.5 ft	6.0 ft	2
15	Double	Clear	S	4.5 ft²	6.5 ft	3.0 ft	1
16	Double	Clear	N	10.0 ft²	1.5 ft	9.0 ft	2

DUCTS

#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length
1	Uncond.	Uncond.	Garage	6.0	136.0 ft

Credit Multipliers: None

WATER

#	System Type	EF	Cap.	Conservation Type	Con. EF
1	Electric Resistance	0.92	40.0	None	0.00

REFR.

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

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (386) 752-1884
FAX (386) 755-7022
904 NW MAIN BLVD.
LAKE CITY, FLORIDA 32055

July 12, 2005

NOTICE TO BUILDING DEPT

For Lot 4 Rolling Meadows

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results. All wells will have a submersible pump and diaphragm tank combination that will be sufficient for each situation.

If you have any questions please feel free to call our office anytime.

Thank you,

Don Hall

Donald D. Hall
DDH/rb

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000963

DATE 02/06/2006 PARCEL ID # 15-4S-16-03023-504

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW MORNING GLORY DR LAKE CITY FL 32024

OWNER SPARKS CONTRACTORS PHONE 63-0575

ADDRESS 187 SW MORNING GLORY DR LAKE CITY FL 32024

CONTRACTOR SPARKS CONTRACTORS PHONE 623-0575

LOCATION OF PROPERTY 90 W, L 341, R HOPE HENRY, R SW MORNING GLORY DR,

4TH LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ROLLING MEADOWS 4

SIGNATURE

INSTALLATION REQUIREMENTS

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

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

24112

Inst:2006002352 Date:02/01/2006 Time:10:46
MK DC,P.DeWitt Cason,Columbia County B:1072 P:1679

Permit No.
Tax Folio No. 15-4S-16-03023-502 & 15-4S-16-03023-504

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

1. Description of property:

   Lots 2 and 4, ROLLING MEADOWS, a subdivision according to the plat thereof, as recorded in Plat Book 8, pages 45 and 46, public records of Columbia County, Florida.

2. General description of improvements: New Home Construction

3. Owner information:
   a) Name and Address: Sparks Contractors, Inc.
   P.O.Box 1479
   Lake City, FL 32056

   c) Interest in property: 100%

4. Contractor (name and address):
   Sparks Contractors, Inc.
   P.O. Box 1479
   Lake City, FL 32056

   a) Phone number: 386-755-4314
   b) Fax number: 386-755-7156

5. Surety Information:
   a) Name and Address:

   b) Phone number:
   c) Amount of bond:

6. Lender (name and address):
   Peoples State Bank
   350 SW Main Blvd.
   Lake City, FL 32025

   a) Phone number: 386-754-0002
   b) Fax Number 386-754-0031

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

   William J. Haley, Esquire
   Brannon, Brown, Haley & Bullock, P.A.
   P.O. Box 1029
   Lake City, FL 32056-1029

   a) Phone number: 386-752-3213

8. Expiration date of Notice of Commencement: _____, 200___.

Sparks Contractors, Inc.

By: _____
Jacob D. Sparks, President
P.O. Box 1479
Lake City, FL 32056

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to and subscribed before me this 30th day of January, 2006, A.D. by Jacob D. Sparks, as President of Sparks Contractors, Inc., a Florida corporation, on behalf of said corporation, who is personally known to me or whom produced FL Drivers License as identification.

Debbie G. Moore
Notary Public - State of Florida

Debbie G. Moore
Commission # DD400475
Expires March 16, 2009
Bonded Troy Fain - Insurance, Inc. 800-385-7019

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 15-4S-16-03023-504 **Building permit No.** 000024112

Use Classification SFD,UTILITY **Fire:** 11.84

Permit Holder SPRAKS CONTRACTORS **Waste:** 24.50

Owner of Building SPARKS CONTRACTORS, INC. **Total:** 36.34

Location: 187 SW MORING GLORY DR (ROLLING MEADOWS LOT 4)

Date: 08/29/2006

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

BAILEY BISHOP & LANE, INC.
Engineers *Surveyors* *Planners*

August 4, 2006

24112

Mr. Josh Sparks
162 SW Country Court
Lake City, Florida 32024

RE: Flood Statement Letter

Dear Mr. Sparks:

We have performed a vertical survey on the structure located on Lot 4, Rolling Meadows, Columbia County, Florida and have determined the following:

- That subdivision plat requires that the minimum finish floor elevation be 104.00'.
- That the field located finish floor elevation is 106.68', being 2.68' above the required elevation.

Should you have any questions, please do not hesitate to give me a call.

Sincerely,

Brian Scott Daniel, PSM
Director of Surveying
BAILEY, BISHOP & LANE, INC.

P. O. Box 3717 Lake City, FL 32056-3717 Ph. (386) 752-5640 FAX (386) 755-7771
P. O. Box 814 Port St. Joe, FL 32457 Ph. (850) 227-9449 FAX (850) 227-9650

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

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

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

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

#24112

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB109476 Company Phone No. 386-755-3611
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Sparks Tract Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 147 SW Morning Glory Pl
Lake City FL
Bethay Meadows Lot 24

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 0 Inside 0 Type of Fill 0

Section 4: Treatment Information

Date(s) of Treatment(s) 5-4-06
Brand Name of Product(s) Used Bora-Care
EPA Registration No. 64405-1
Approximate Final Mix Solution % 0.23%
Approximate Size of Treatment Area: Sq. ft. 2340 Linear ft. 0 Linear ft. of Masonry Voids 0
Approximate Total Gallons of Solution Applied 5
Was treatment completed on exterior? ☑ Yes ☐ No
Service Agreement Available? ☑ Yes ☐ No

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

Attachments (List)

Comments

Name of Applicator(s) Steve Brannon Certification No. (if required by State law) JF104376

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

Authorized Signature S Brannon Date 5-4-06

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

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

Reference to: Build permit application Number: 0512-57

Sparks Construction Owner Sparks Construction lot 4 Rolling Meadows

On the date of December 27, 2005 application 0512-57 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 0512-57 when making reference to this application.

1. Please submit an approved copy of the Columbia County Environmental Health Department site plan application for an on site waste water septic system.
2. Please submit a recorded (with the Columbia County Clerk Office) a notice of commencement before any inspections can be preformed by the Columbia County Building Department.
3. Please verify compliance in the master bath with the FRC-2004 section R308.4 Hazardous locations: Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall

enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

Lot 4 Rolling Meadows

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.
☑	☐	Site Plan including: a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☑	Wind-load Engineering Summary, calculations and any details required 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/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional
☑	☑	Elevations including:
☑	☑	a) All sides
☐	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation
☐	☑	d) Location, size and height above roof of chimneys
☐	☑	e) Location and size of skylights
☐	☑	f) Building height
☐	☐	e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned

b) Shear walls

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 (accesssable bathroom)

Foundation Plan including:

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

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

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

d) Location of any vertical steel

Roof System:

a) Truss package including:

1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 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 bracing details
5. All required connectors with uplift rating and required number and size of fasteners 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 (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☑ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
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 (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

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

Floor Framing System:

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

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☑ ☐ d) Attachment of joist to girder

☑ ☑ e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

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

☐ ☑ b) Ceiling fans

☐ ☑ c) Smoke detectors

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

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

☐ ☐ f) Appliances and HVAC equipment

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

Private Potable Water

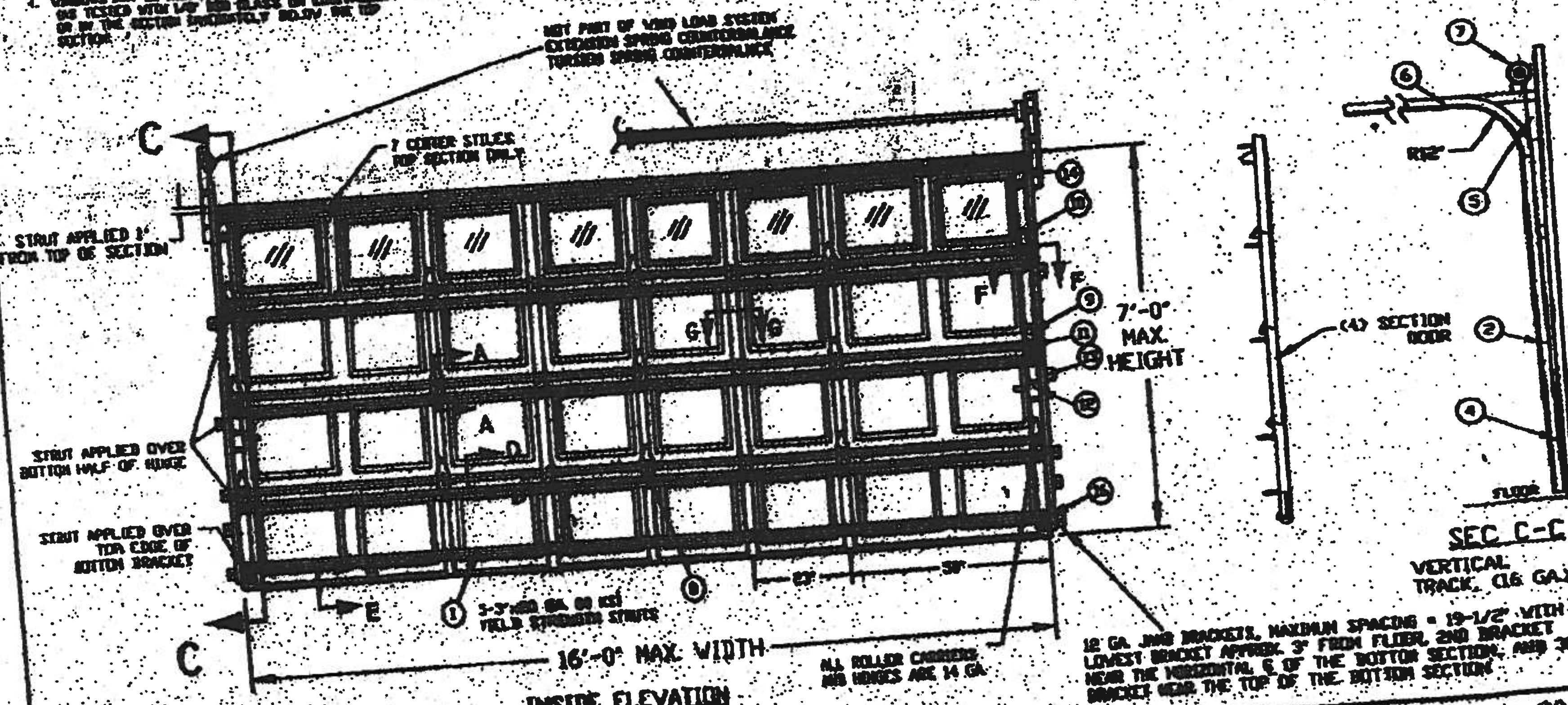
a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330.
2. MAXIMUM SECTION HEIGHT = 21".
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" [illegible] GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STEM IS [illegible] AS TESTED.
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. DROP IN TYPE OF INSULATION IS OPTIONAL.



INSIDE ELEVATION

TEST REPORTS ON FILE [illegible]

DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GENERAL AMERICAN DOOR COMPANY
3050 BASELINE ROAD
MONTGOMERY, IL 60538

GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7025, EXTERIOR STEEL =.019" MIN
SERIES 7324, EXTERIOR STEEL =.024" MIN
(TESTED WITH WINDOWS)

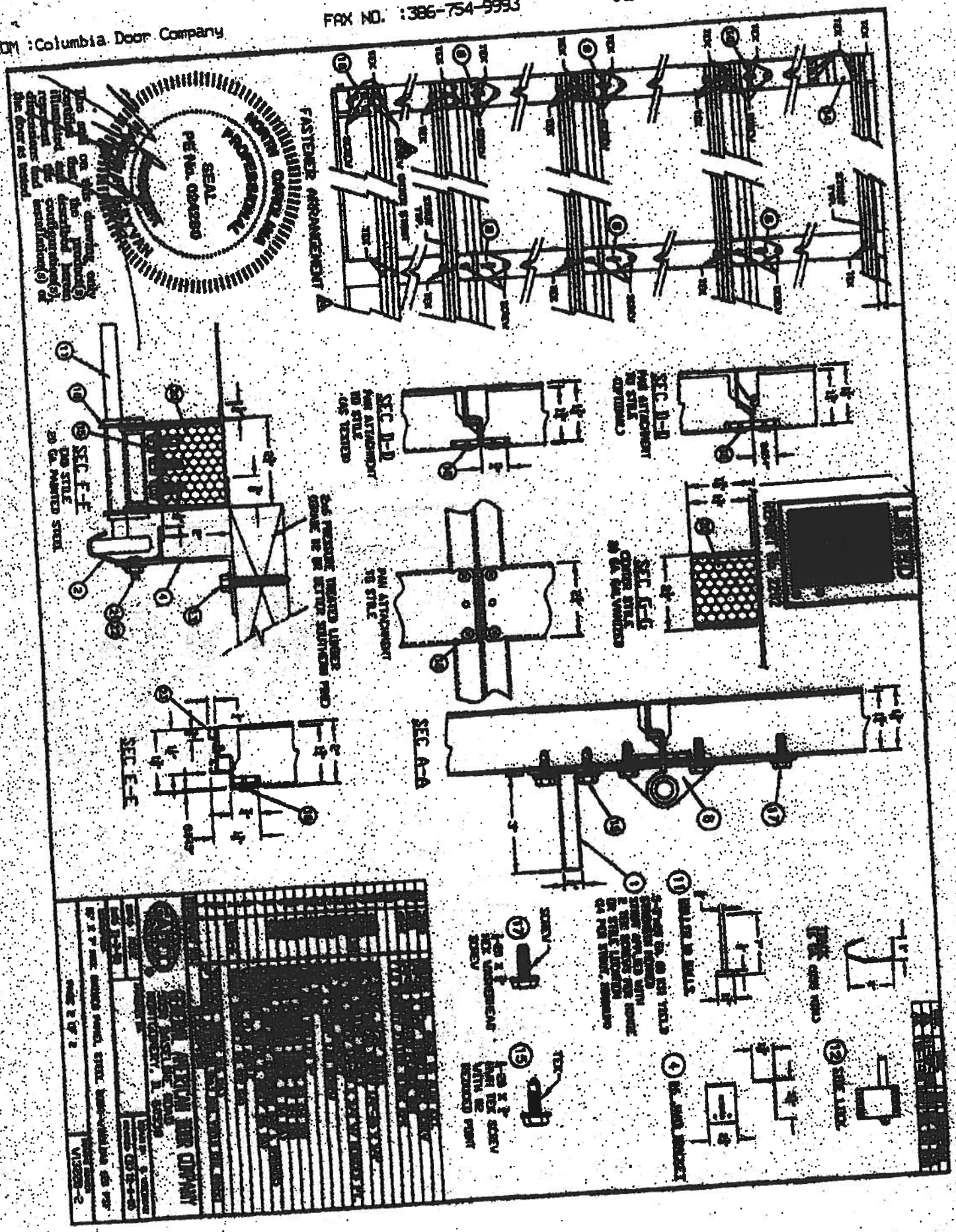
MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL END STILE SPACING	STRUT 80 KSI SIZE	STRUT 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

16' X 7' MAX. RAISED PANEL STEEL DOOR - WINDLOAD ±20 PSF

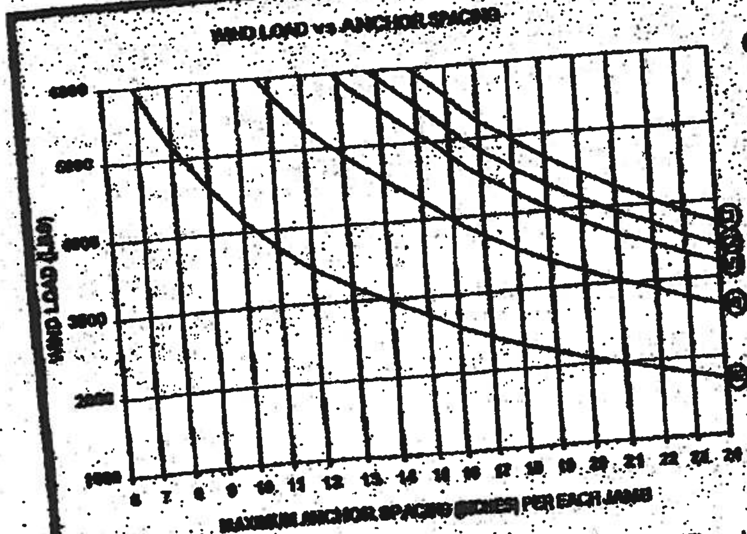
REVISED (A) 11-13-03

PAGE 1 OF 2

V13020-1


SEAL
PE No. 0042550
FASTENER ARRANGEMENT
SEC D-D
SEC D-D
SEC E-E
SEC E-E
SEC A-A
SEC E-E

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT



(C1) CONCRETE BACKUP HILTI KWIK BOLT II EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

(C2) CONCRETE BACKUP DUAL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-3/4" EMBEDMENT

(C3) CONCRETE BACKUP DUAL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

(C4) CONCRETE BACKUP ITV TAPCON SCREW ANCHOR 1/4" DIA. 1-3/4" EMBEDMENT

(W) WOOD STUD BACKUP LAG SCREW 5/16" DIA. 1-1/2" EMBEDMENT

DESIGN LOAD (LBS)/FT² X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

EXAMPLE

30 LBS/FT² X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

(C1) USE 22" SPACING (C4) USE 16" SPACING
(C2) USE 21" SPACING (W) USE 10" SPACING
(C3) USE 19" SPACING SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATION USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2500 PSI, GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI, REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

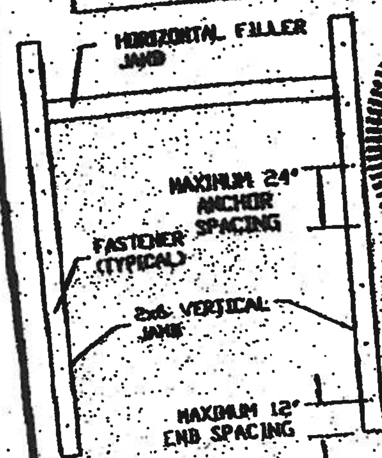
7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4".

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.



NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024080 NASER R. KEYVAN

NASER R. KEYVAN P.E. No. 53777 STATE OF FLORIDA PROFESSIONAL ENGINEER

3/8/2002

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

DRAWN BY: DV

A0560

TAMKO®
ROOFING PRODUCTS

FEB - 4 RECD

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.

CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

(CONTINUED from Pg. 3)

TAMKO ROOFING PRODUCTS

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

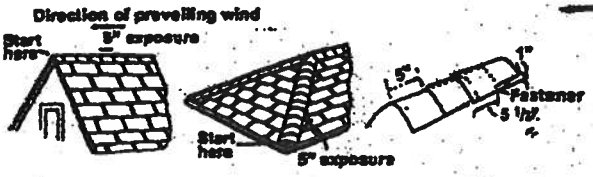
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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.

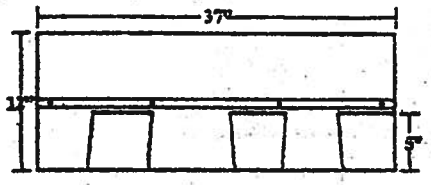
IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

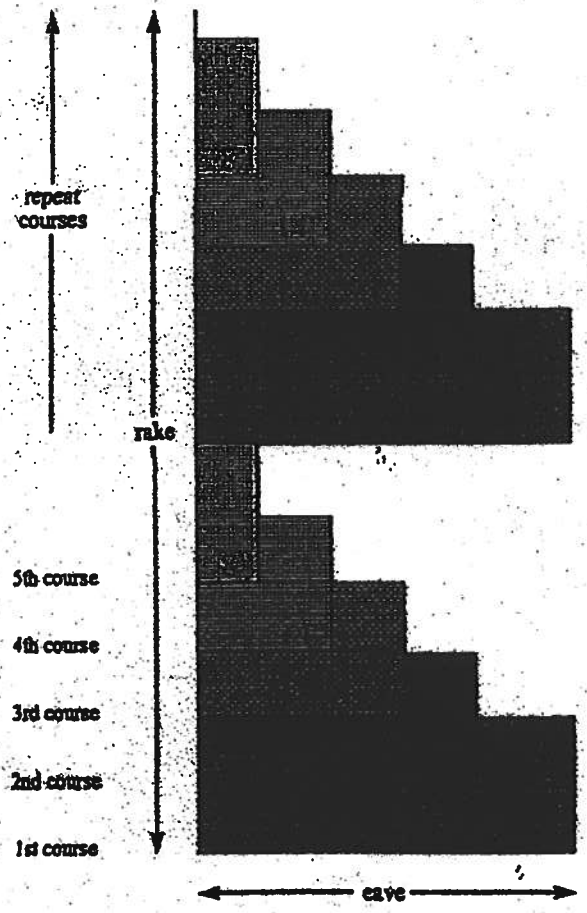
In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles 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.

TAMKO
ROOFING PRODUCTS

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.

TAMKO ROOFING PRODUCTS

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.

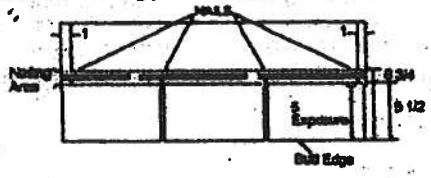
3. FASTENING

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.

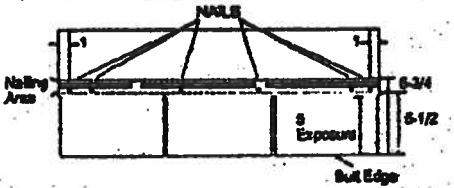
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or 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 fastener 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.

(Continued)

(CONTINUED from Pg. 2)

TAMKO ROOFING PRODUCTS

• 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 3.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

5. 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.

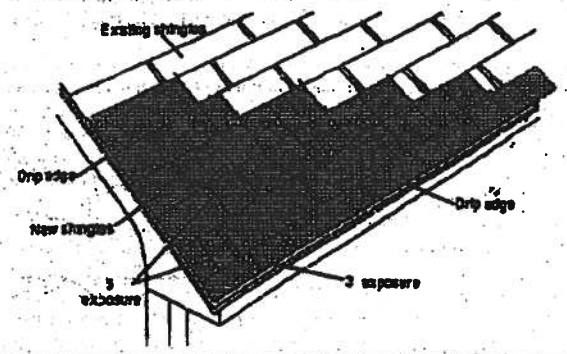
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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



6. 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.

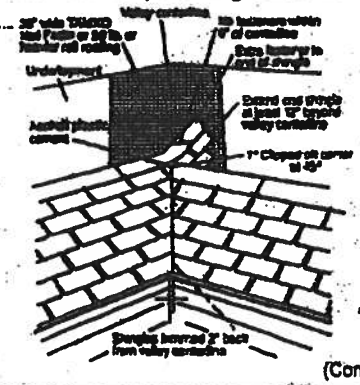
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- 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.



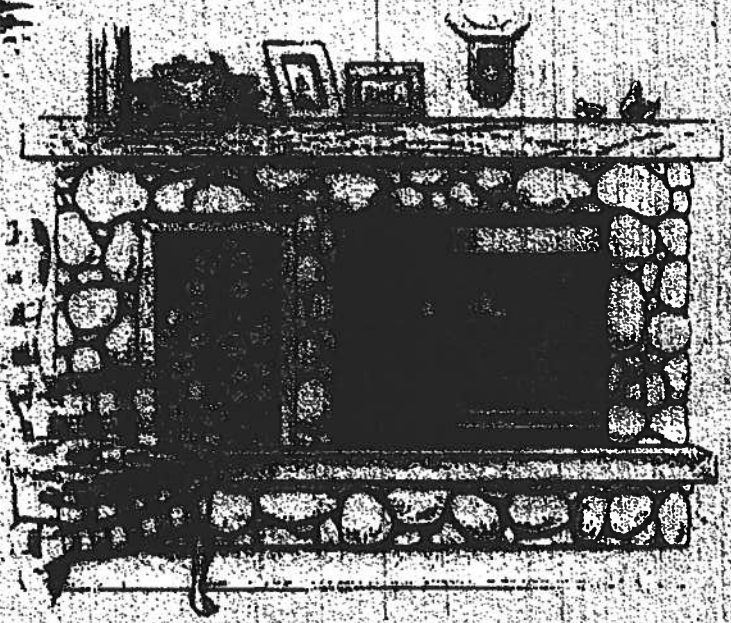
(Continued)

VENT-FREE

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

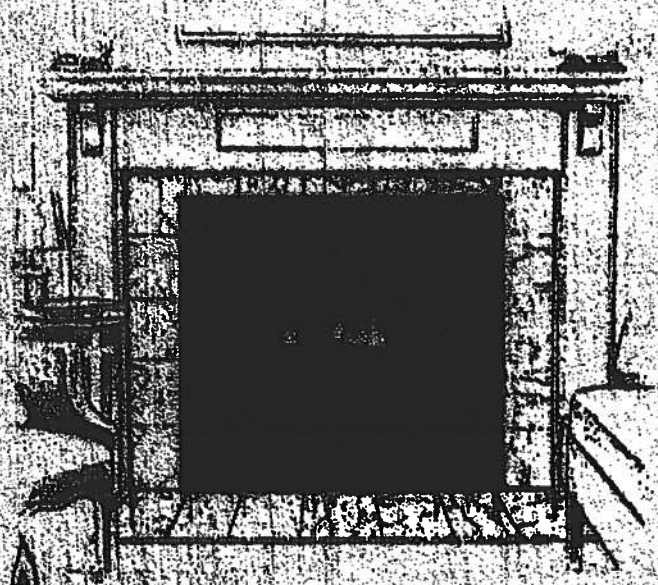
VF-4000

- 14,000 – 25,000 Btu/hr with manual control valve
- 12,500 – 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening



VF-5000

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

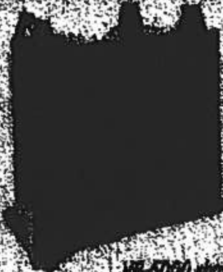


VF-6000

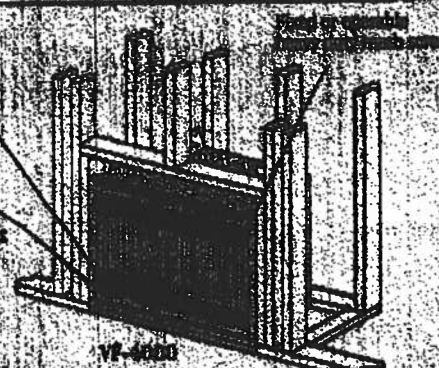
- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

SUPERIOR

VF-4000/5000/6000

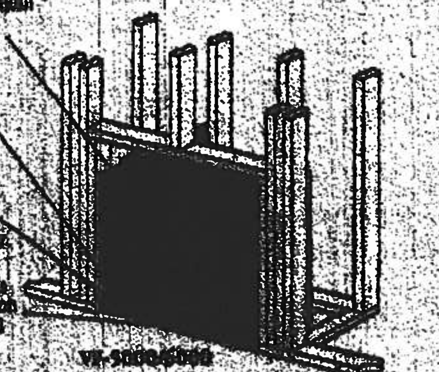


VF-5000 shown.



VF-4000

Optional fixtures, hearth, glass panel and fire-glass screen.



VF-5000/6000

SURROUNDS

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

Distributed by:

Refractory tan brick panels

Gas flue liner kit

Square trim kit

Brass Louver kit (For VF-4 only)

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

Arch kit (For VF-5 & VF6 only)

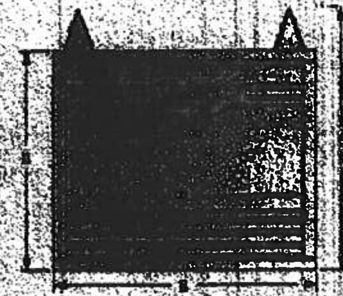
Glass door kit (For VF-5 & VF6 only)

Hearth band (For VF-5 & VF6 only)

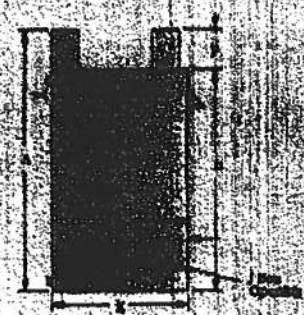
Wall switch or optional remote controls available (For VF-4000, VF-5 & VF-6)

Wall thermostat (For VF-4000, VF-5 & VF-6)

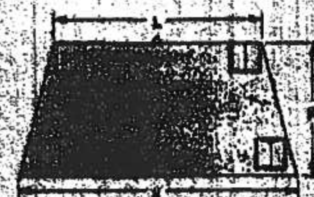
Front View



Left Side View



Top View



Vent-Free Product Dimensions

	VF-4000/5000C	VF-6000C
[illegible]	[illegible]	[illegible]
[illegible]	19-1/2"	35-5/8"
[illegible]	[illegible]	20"
[illegible]	[illegible]	34"
[illegible]	[illegible]	20"
[illegible]	[illegible]	5-1/4"
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	3-3/4"
[illegible]	[illegible]	[illegible]
[illegible]	3"	3"
[illegible]	[illegible]	[illegible]
[illegible]	37"	40-1/4"

Btu Chart

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

Framing Dimensions

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

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

Consult your distributor for local fireplace code information.

SUPERIOR

www.LennoxHearthProducts.com

Printed in U.S.A. ©2001 Lennox Hearth Products • 1110 West Taft Ave., Orange, CA 92865-4150
Lennox Hearth Products vent-free fireplaces and gas appliances include a 10-year limited warranty.

[illegible]

I

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

Rendered to:

MI HOME PRODUCTS, INC.

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

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

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

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:mb

ALLEN M. REEVES
LICENSE
NO. 18254
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

1 APRIL 2002

II

Architectural Testing

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

Rendered to

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

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

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

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

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

Finish: All aluminum was white.

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

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

Allan N. Rennes
1 APRIL 2002

ALLAN N. RENNES
NO. 18384
STATE OF FLORIDA
PROFESSIONAL ENGINEER

III

Test Specimen Description: (Continued)

Weatherstripping:

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

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

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

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

Hardware:

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

ALLEN N. REEVES ★ LICENSE CERTIFICATE NO. 19854 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

Allen N. Reeves
1 APRIL 2002

IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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

Test Results:

The results are tabulated as follows:

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

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

Allen H. Reeves
1 APRIL 2002

ALLEN H. REEVES ★ CERTIFICATE NO. [illegible] ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER ★

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.
	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.18" max.
	@ 70.8 psf (negative)	0.05"	0.18" max.

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

Alan M. Reeves
1 APRIL 2002

LEI N. REEVES
CERTIFICATE
No. 48534
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

VI

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

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

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

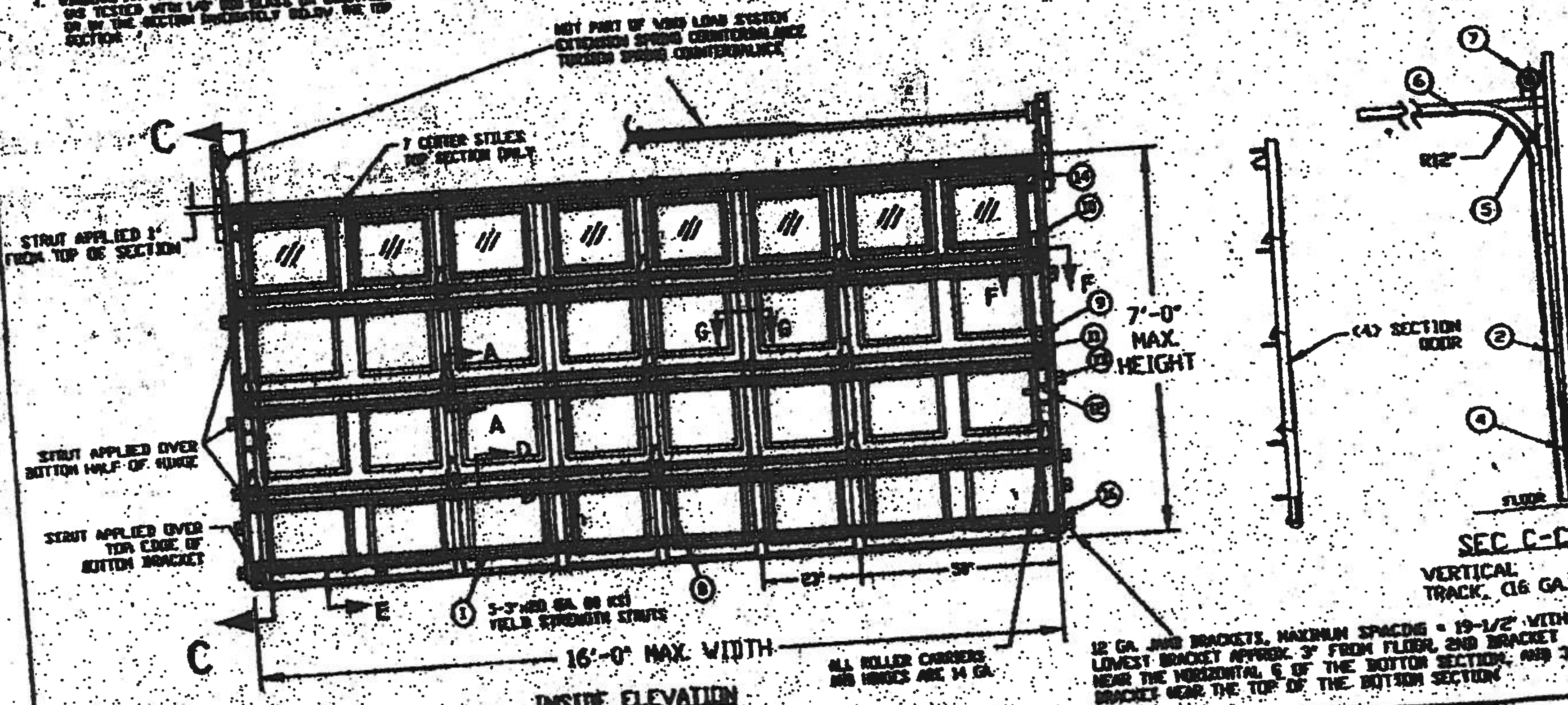
MAH:nlb
01-41134.01

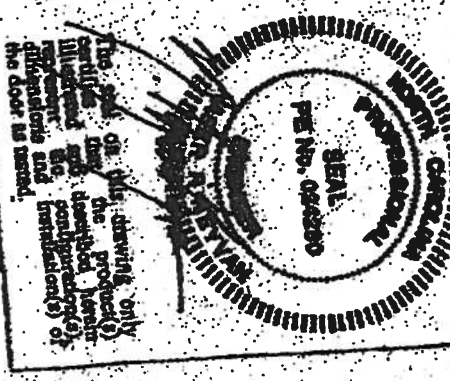
ALLEN N. REEVES
CERTIFICATE
NO. 1855
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REV.	DATE	BY	DESCRIPTION
A-A	11-15-00	[illegible]	[illegible]

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330.
2. MAXIMUM SECTION HEIGHT= 21".
3. SECTION HEIGHTS OF 21.00" AND [illegible] ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" [illegible] GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STEM IS [illegible] AS TESTED.
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0, 1, OR 2 AS TESTED.
9. DROP IN TYPE OF INSULATION IS OPTIONAL.





The seal on this drawing only certifies that the product(s) [illegible] herein [illegible] dimensions and installation(s) of the door as tested.

LISTED
[redacted]
REPORT NO. 2202

DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

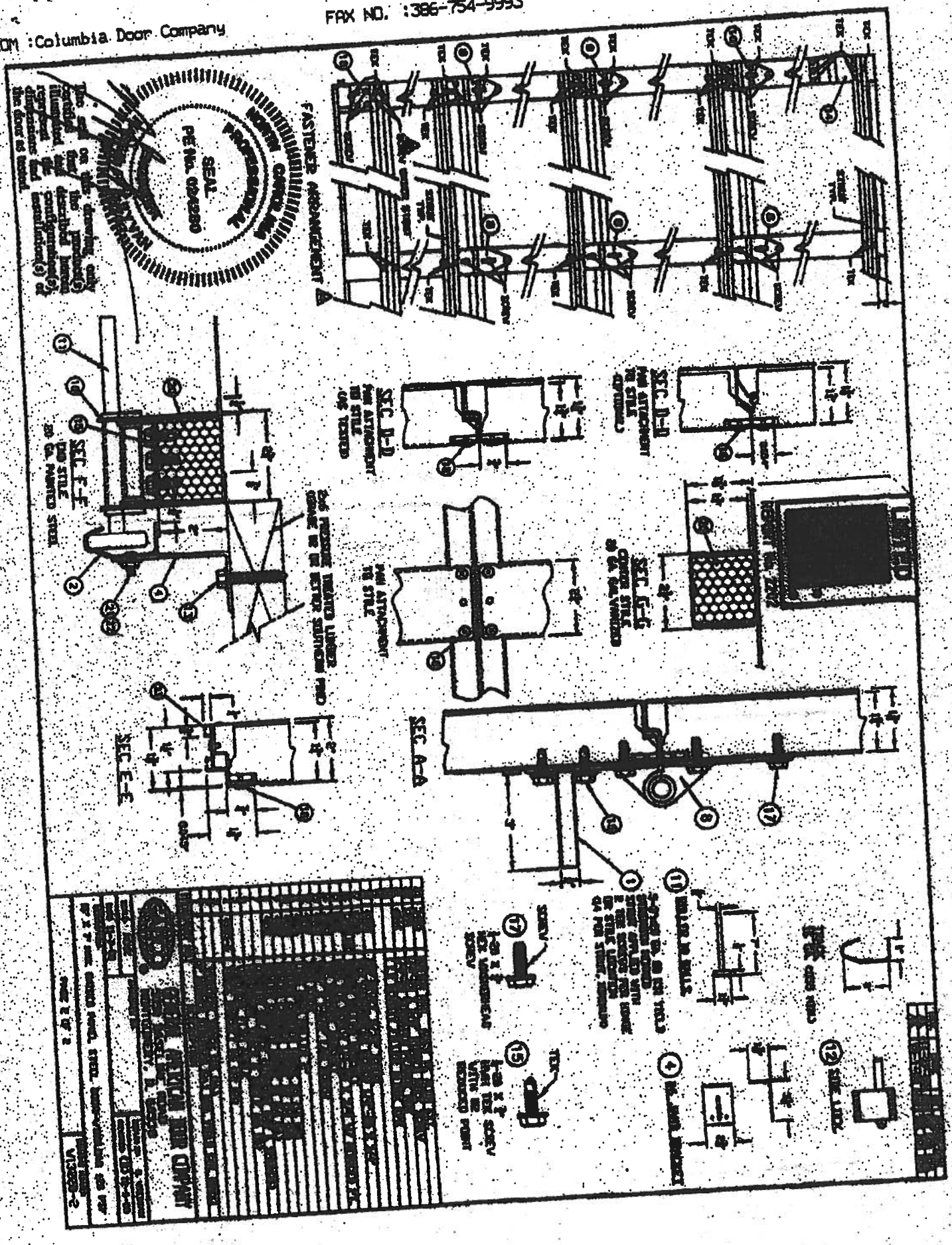
TEST REPORTS ON FILE: V[illegible] 10/19/00 [illegible]

GADCO DOORS:
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN
SERIES 7524, EXTERIOR STEEL =.024" MIN
(TESTED WITH WINDOWS)

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

DRAWN BY: [illegible]
REVISED: (A) 11-15-00
DATE: 10-20-00
16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF
PAGE 1 OF 2
DRAWING NUMBER: V13220-1



2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI. GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4".

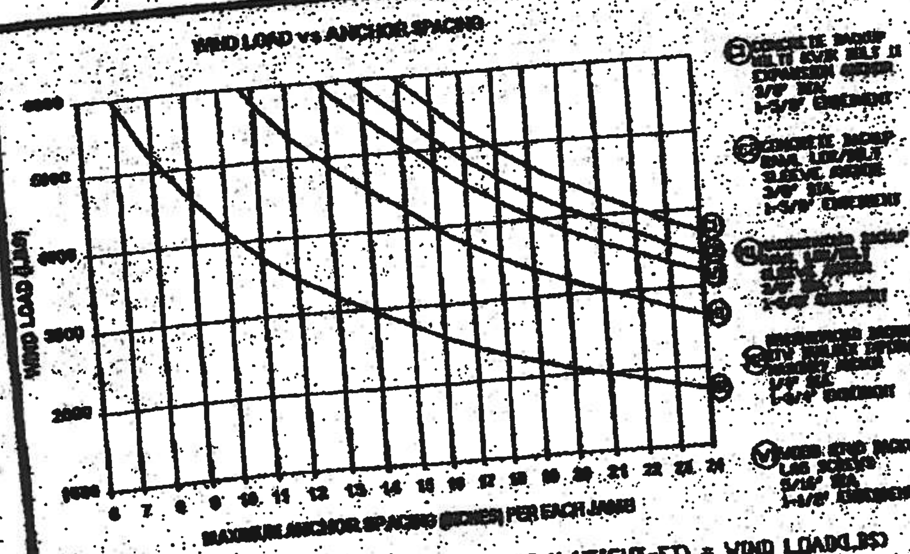
8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 16' X 8' AT A MAXIMUM 48 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

WIND LOAD vs ANCHOR SPACING



(1) CONCRETE BACKUP HILTI KWIK BOLT II EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

(2) CONCRETE BACKUP [illegible] SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

(3) [illegible] BACKUP [illegible] 3/8" DIA. 1-5/8" EMBEDMENT

(4) [illegible] BACKUP [illegible] 1/4" DIA. 1-3/4" EMBEDMENT

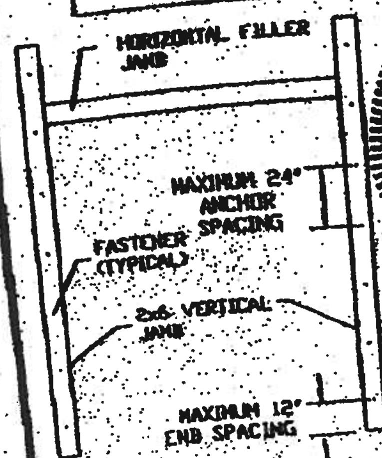
(5) WOOD STUD BACKUP LAG SCREWS 5/16" DIA. 3-1/2" EMBEDMENT

DESIGN (LBS) / FT^2 LOAD X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

EXAMPLE

30 LBS / FT^2 X 16 FT WIDE X 8 FT HIGH = 3840 LBS

(1) USE 22" SPACING (3) USE 16" SPACING
(2) USE 21" SPACING (4) USE 10" SPACING
(5) USE 19" SPACING SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024280 NASER R. KEYVAN

NASER R. KEYVAN No. 53774 STATE OF FLORIDA PROFESSIONAL ENGINEER

3/8/2002

GENERAL AMERICAN DOOR COMPANY
[illegible] BASELINE ROAD
MONTGOMERY, IL 60538

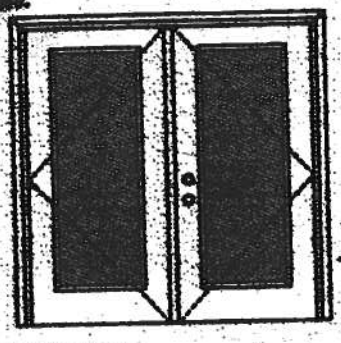
DRAWN BY: DV
DATE: 8-30-99
JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS
A0560

XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENTS:



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

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

Design Pressure
+40.5/-40.5
Limited water column equivalent threshold design is used.

Large-Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


132, 135 Series


135 Series


600 Series


602 Series

1/2 GLASS:


100 Series*


100, 100 Series*


130 Series*


630 Series*


12 SL, 20 SL, 84 SL Series*


107 Series*


103 Series


304 Series

*This glass kit may also be used in the following door styles: 6-panel; 5-panel with ovolo; Fyshaw 5-panel; Fyshaw 5-panel with ovolo.

Johnson
Hardware

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

FIBERDOR Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

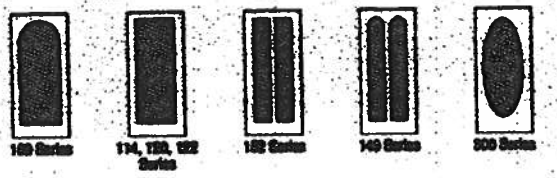
XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:

FULL GLASS:



CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1894-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top and rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2004 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 66533

Johnson

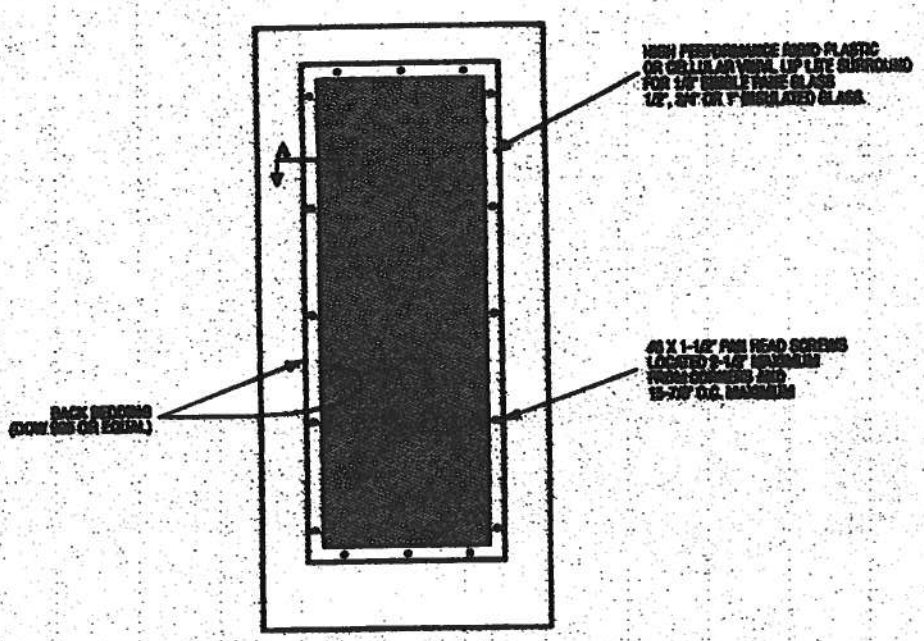
March 29, 2022
Our continuing program of product improvement makes specifications, design and product construction subject to change without notice.

FIREDOOR Corporation

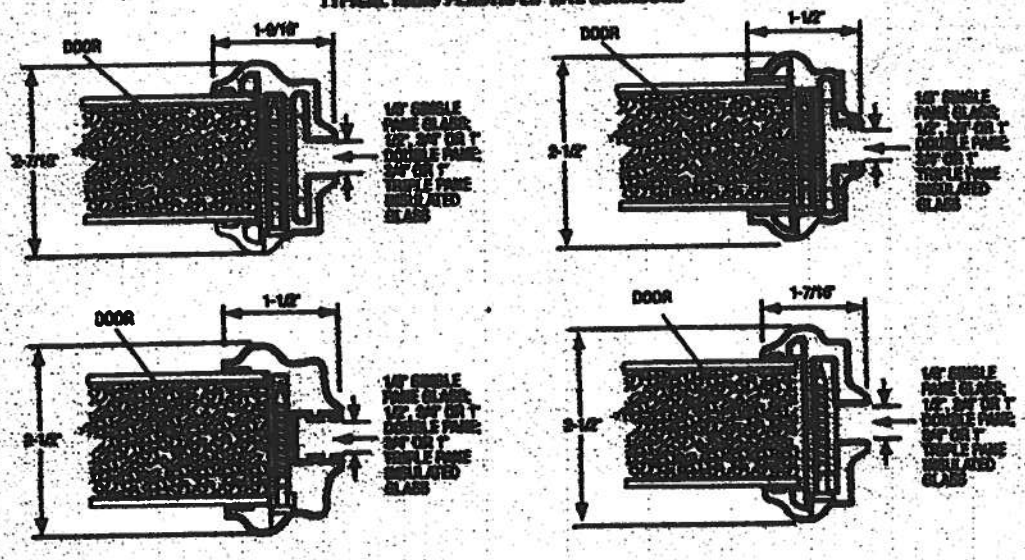
Exclusively from Masonite

Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND

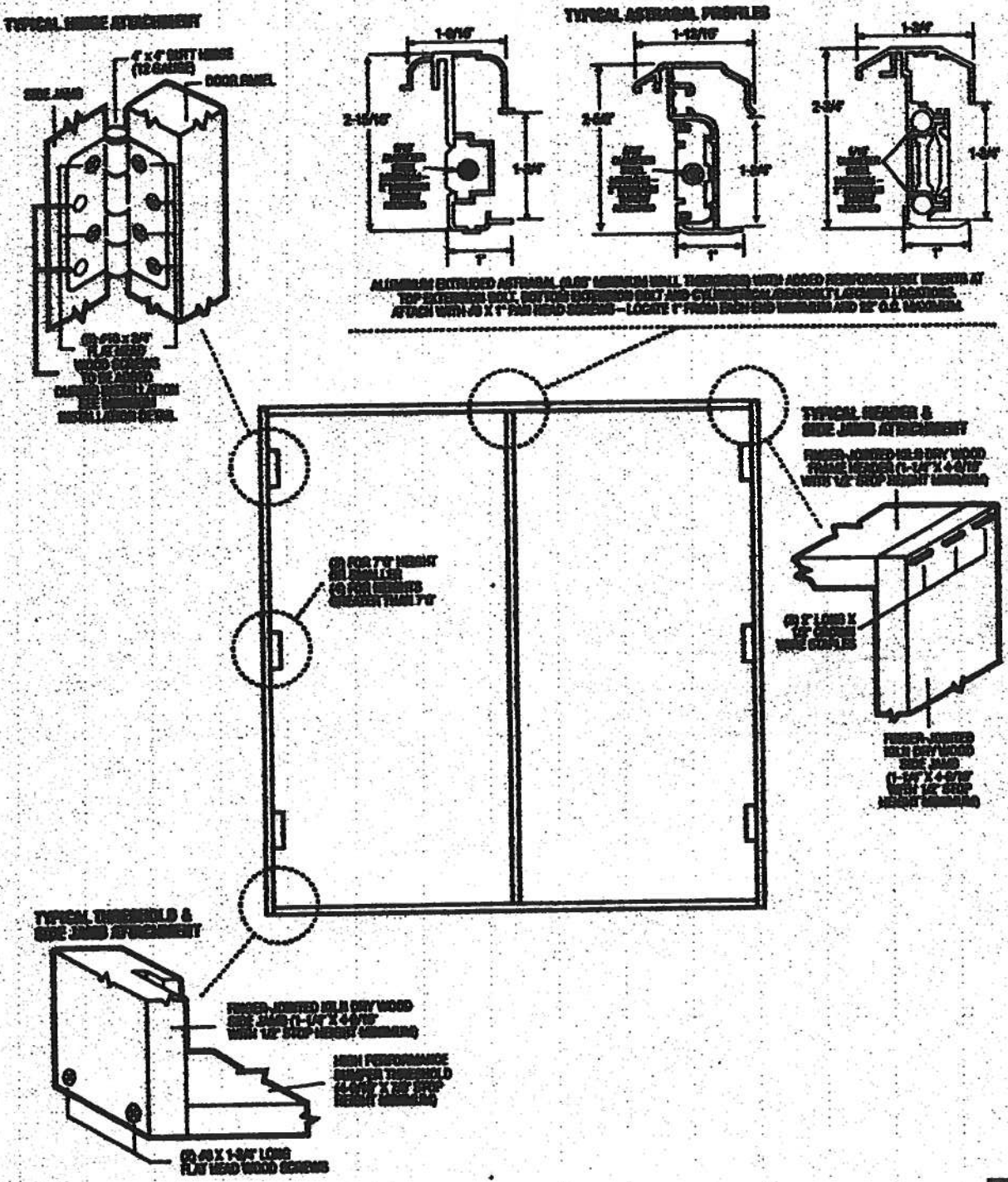


Exclusively from Masonite®
Masonite International Corporation

XX
Unit

[redacted]

OUTSWING UNITS WITH DOUBLE DOOR



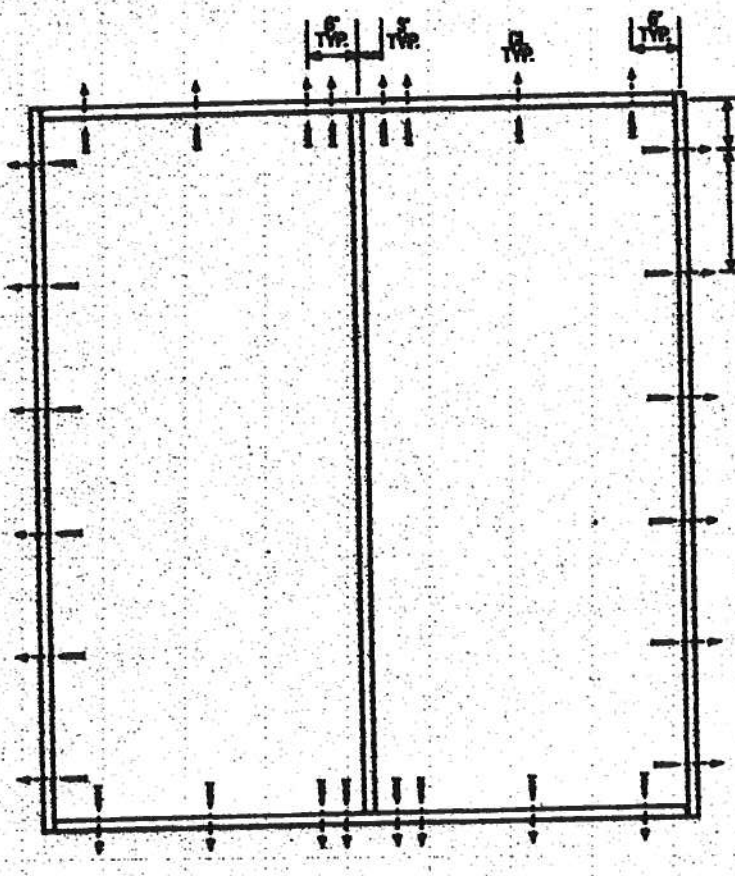
ALUMINUM EXTRUDED ASTRAGAL (SLOT MORTISED WELL THROUGH) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS—LOCATE 1" FROM EACH END MAXIMUM AND 12" O.C. MAXIMUM.

Exclusively from Masonite®
Masonite International Corporation

XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 6 per vertical framing member
- 9 per horizontal framing member

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

Latching Hardware:

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

Notes:

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

[redacted]

Exclusively from Masonite®
Masonite International Corporation

March 20, 2012
Our continued program of product improvement makes specifications, design and product detail subject to change without notice.

Residential System Sizing Calculation

Summary

SpecHouse

, FL

Project Title:
511235SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

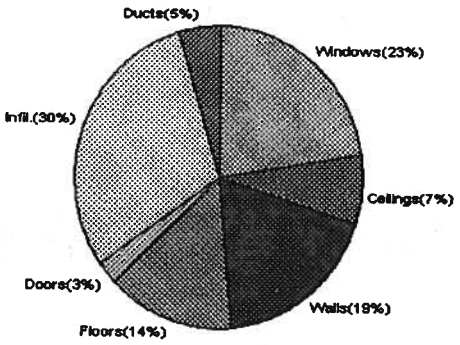
11/28/2005

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature	31	F	Summer design temperature	93	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	39	F	Summer temperature difference	18	F
Total heating load calculation	**35669**	**Btuh**	**Total cooling load calculation**	**37243**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	123.4	44000	Sensible (SHR = 0.75)	116.3	33000
Heat Pump + Auxiliary(0.0kW)	123.4	44000	Latent	124.2	11000
			Total (Electric Heat Pump)	118.1	44000

WINTER CALCULATIONS

Winter Heating Load (for 1845 sqft)

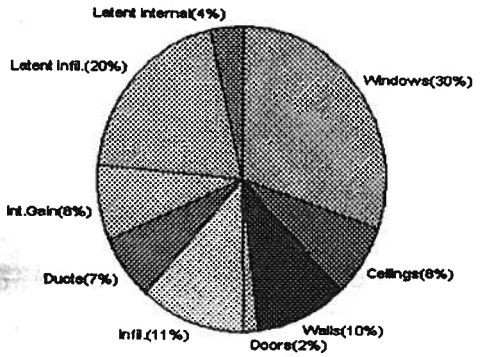
Load component			Load	
Window total	286	sqft	8089	Btuh
Wall total	2140	sqft	6634	Btuh
Door total	60	sqft	921	Btuh
Ceiling total	2049	sqft	2664	Btuh
Floor total	161	ft	5088	Btuh
Infiltration	246	cfm	10575	Btuh
Subtotal			**33970**	**Btuh**
Duct loss			1699	Btuh
TOTAL HEAT LOSS			**35669**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1845 sqft)

Load component			Load	
Window total	286	sqft	11291	Btuh
Wall total	2140	sqft	3724	Btuh
Door total	60	sqft	608	Btuh
Ceiling total	2049	sqft	2910	Btuh
Floor total			0	Btuh
Infiltration	216	cfm	4270	Btuh
Internal gain			3000	Btuh
Subtotal(sensible)			**25803**	**Btuh**
Duct gain			2580	Btuh
Total sensible gain			**28383**	**Btuh**
Latent gain(infiltration)			7480	Btuh
Latent gain(internal)			1380	Btuh
Total latent gain			**8860**	**Btuh**
TOTAL HEAT GAIN			**37243**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: Glen Spencer

DATE: 11-28-05

System Sizing Calculations - Winter

Residential Load - Component Details

SpecHouse
, FL

Project Title:
511235SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

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

11/28/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
2	2, Clear, Metal, DEF	N	45.0	28.3	1274 Btuh
3	2, Clear, Metal, DEF	N	6.0	28.3	170 Btuh
4	2, Clear, Metal, DEF	N	16.0	28.3	453 Btuh
5	2, Clear, Metal, DEF	E	16.0	28.3	453 Btuh
6	2, Clear, Metal, DEF	E	30.0	28.3	849 Btuh
7	2, Clear, Metal, DEF	S	15.0	28.3	424 Btuh
8	2, Clear, Metal, DEF	S	4.5	28.3	127 Btuh
9	2, Clear, Metal, DEF	S	13.3	28.3	377 Btuh
10	2, Clear, Metal, DEF	S	15.0	28.3	424 Btuh
11	2, Clear, Metal, DEF	S	13.5	28.3	382 Btuh
12	2, Clear, Metal, DEF	S	12.0	28.3	340 Btuh
13	2, Clear, Metal, DEF	S	30.0	28.3	849 Btuh
14	2, Clear, Metal, DEF	W	30.0	28.3	849 Btuh
15	2, Clear, Metal, DEF	S	4.5	28.3	127 Btuh
16	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
	Window Total		286		8089 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	2140	3.1	6634 Btuh
	Wall Total		2140		6634 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		20	18.3	367 Btuh
2	Insulated - Adjac		20	9.4	188 Btuh
3	Insulated - Exter		20	18.3	367 Btuh
	Door Total		60		921Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2049	1.3	2664 Btuh
	Ceiling Total		2049		2664Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	161.0 ft(p)	31.6	5088 Btuh
	Floor Total		161		5088 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	18450(sqft)	246	10575 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			246	10575 Btuh

Totals for Heating	**Subtotal**	**33970 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**1699 Btuh**
	Total Btuh Loss	**35669 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

SpecHouse
, FL

Project Title:
511235SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

11/28/2005

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Summer

Residential Load - Component Details

SpecHouse
, FL

Project Title:
511235SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F 11/28/2005

Window	Type		Overhang Len	Overhang Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	HTM Unshaded	Load	
	Panes/SHGC/U/InSh/ExSh	Ornt									
1	2, Clear, DEF, N, N	N	1.5	6	15.0	0.0	15.0	22	22	330	Btuh
2	2, Clear, DEF, N, N	N	1.5	6	45.0	0.0	45.0	22	22	990	Btuh
3	2, Clear, DEF, N, N	N	1.5	4	6.0	0.0	6.0	22	22	132	Btuh
4	2, Clear, DEF, N, N	N	1.5	5	16.0	0.0	16.0	22	22	352	Btuh
5	2, Clear, DEF, N, N	E	1.5	5	16.0	1.0	15.0	22	72	1103	Btuh
6	2, Clear, DEF, N, N	E	1.5	6	30.0	0.7	29.3	22	72	2123	Btuh
7	2, Clear, DEF, N, N	S	1.5	6	15.0	15.0	0.0	22	37	330	Btuh
8	2, Clear, DEF, N, N	S	0	0	4.5	0.0	4.5	22	37	166	Btuh
9	2, Clear, DEF, N, N	S	0	0	13.3	0.0	13.3	22	37	493	Btuh
10	2, Clear, DEF, N, N	S	0	0	15.0	0.0	15.0	22	37	555	Btuh
11	2, Clear, DEF, N, N	S	0	0	13.5	0.0	13.5	22	37	500	Btuh
12	2, Clear, DEF, N, N	S	0	0	12.0	0.0	12.0	22	37	444	Btuh
13	2, Clear, DEF, N, N	S	0	0	30.0	0.0	30.0	22	37	1110	Btuh
14	2, Clear, DEF, N, N	W	1.5	6	30.0	0.7	29.3	22	72	2123	Btuh
15	2, Clear, DEF, N, N	S	6.5	3	4.5	4.5	0.0	22	37	99	Btuh
16	2, Clear, DEF, N, N	N	1.5	9	20.0	0.0	20.0	22	22	440	Btuh
	Window Total				286					11291	Btuh

Walls	Type	R-Value	Area	HTM	Load	
1	Frame - Exterior	13.0	2140.0	1.7	3724	Btuh
	Wall Total		2140.0		3724	Btuh

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

Ceilings	Type/Color	R-Value	Area	HTM	Load	
1	Under Attic/Dark	30.0	2049.0	1.4	2910	Btuh
	Ceiling Total		2049.0		2910	Btuh

Floors	Type	R-Value	Size	HTM	Load	
1	Slab-On-Grade Edge Insulation	0.0	161.0 ft(p)	0.0	0	Btuh
	Floor Total		161.0		0	Btuh

Infiltration	Type	ACH	Volume	CFM=	Load	
	Natural	0.70	18450	215.7	4270	Btuh
	Mechanical			0	0	Btuh
	Infiltration Total			216	4270	Btuh

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

Manual J Summer Calculations

Residential Load - Component Details (continued)

SpecHouse
, FL

Project Title:
511235SparksConstruction

Class 3 Rating
Registration No. 0
Climate: North

11/28/2005

Totals for Cooling	Subtotal	25803 Btuh
	Duct gain(using duct multiplier of 0.10)	2580 Btuh
	Total sensible gain	28383 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	7480 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
	TOTAL GAIN	37243 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (386) 752-1884
FAX (386) 755-7022
904 NW MAIN BLVD.
LAKE CITY, FLORIDA 32055

July 12, 2005

NOTICE TO BUILDING DEPT

For Lot 4 Rolling Meadows

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results. All wells will have a submersible pump and diaphragm tank combination that will be sufficient for each situation.

If you have any questions please feel free to call our office anytime.

Thank you,

Don Hall

Donald D. Hall
DDH/rb

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
 Document ID:1SSL487-Z0230142435

Truss Fabricator: Anderson Truss Company
Job Identification: 5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR.-SPEC #4 ROLLING M
Truss Count: 48
Model Code: Florida Building Code
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software,Version 7.04.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-98 -Closed

Notes:

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

Seal Date: 11/30/2005

-Truss Design Engineer-
Denise Rutledge
Florida License Number: 58752
1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-A11015EC-GBLLETIN

#	Ref Description	Drawing#	Date
1	43873--A1	05333048	11/29/05
2	43874--A2	05333034	11/29/05
3	43875--A3	05333044	11/29/05
4	43876--A4	05333045	11/29/05
5	43877--A5	05333023	11/29/05
6	43878--A6	05333047	11/29/05
7	43879--A7	05333042	11/29/05
8	43880--A8	05333010	11/29/05
9	43881--A9	05333025	11/29/05
10	43882--B1	05333014	11/29/05
11	43883--B2	05333015	11/29/05
12	43884--B3	05333019	11/29/05
13	43885--B4	05333020	11/29/05
14	43886--B5	05333035	11/29/05
15	43887--BB1	05333036	11/29/05
16	43888--BB2	05333007	11/29/05
17	43889--BB3	05333008	11/29/05
18	43890--C1-GE	05333001	11/29/05
19	43891--C2	05333012	11/29/05
20	43892--C3	05333002	11/29/05
21	43893--C4G	05333046	11/29/05
22	43894--D1-GE	05333032	11/29/05
23	43895--D2	05333033	11/29/05
24	43896--HJ7A1	05333011	11/29/05
25	43897--HJ7B2	05333026	11/29/05
26	43898--EJ7	05333003	11/29/05
27	43899--MAG	05333021	11/29/05
28	43900--J8A	05333013	11/29/05
29	43901--J6A	05333016	11/29/05
30	43902--J4A	05333017	11/29/05
31	43903--J7A1	05333004	11/29/05
32	43904--J7A2	05333005	11/29/05
33	43905--J7A3	05333037	11/29/05
34	43906--J5A	05333018	11/29/05
35	43907--J3A	05333024	11/29/05
36	43908--J1A	05333028	11/29/05

#	Ref Description	Drawing#	Date
37	43909--J5B	05333027	11/29/05
38	43910--J3B	05333029	11/29/05
39	43911--J1B	05333030	11/29/05
40	43912--J2A	05333041	11/29/05
41	43913--K1-GE	05333038	11/29/05
42	43914--K2	05333039	11/29/05
43	43915--K3G	05333040	11/29/05
44	43916--R1-GE	05333006	11/29/05
45	43917--R2	05333009	11/29/05
46	43918--R3	05333043	11/29/05
47	43919--R4	05333031	11/29/05
48	43920--R5	05333022	11/29/05

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
 Document ID:1SSL487-Z0230142435

Truss Fabricator:	Anderson Truss Company
Job Identification:	5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR.-SPEC #4 ROLLING M (5-514|-SPA
Truss Count:	6
Model Code:	Florida Building Code
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.04.
Structural Engineer of Record:	
Address:	
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration Floor - N/A Wind - 110 MPH ASCE 7-98 -Closed

Notes:

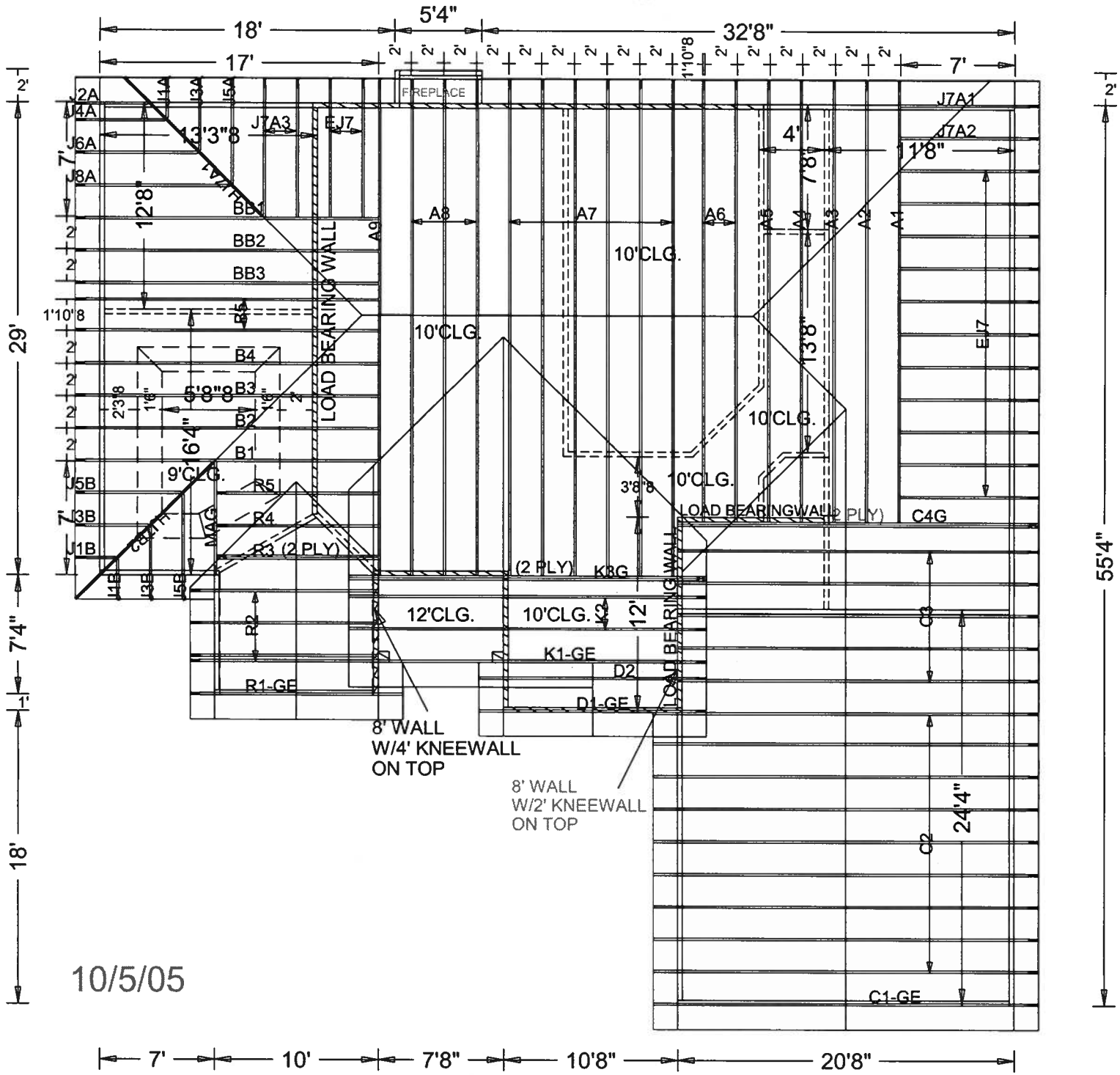
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown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

Seal Date: 11/30/2005

-Truss Design Engineer-
Denise Rutledge
Florida License Number: 58752
1950 Marley Drive
Haines City, FL 33844

Revised Trusses

#	Ref	Description	Drawing#	Date
1	43890	C1-GE	05333001	11/29/05
2	43894	D1-GE	05333032	11/29/05
3	43903	J7A1	05333004	11/29/05
4	43912	J2A	05333041	11/29/05
5	43913	K1-GE	05333038	11/29/05
6	43916	R1-GE	05333006	11/29/05



623-0515

10/5/05

#5-514 SPARKS CONSTRUCTION - SPEC. LOT 4 ROLLING MEADOWS

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR. SPEC #4 ROLLING M - A1)

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

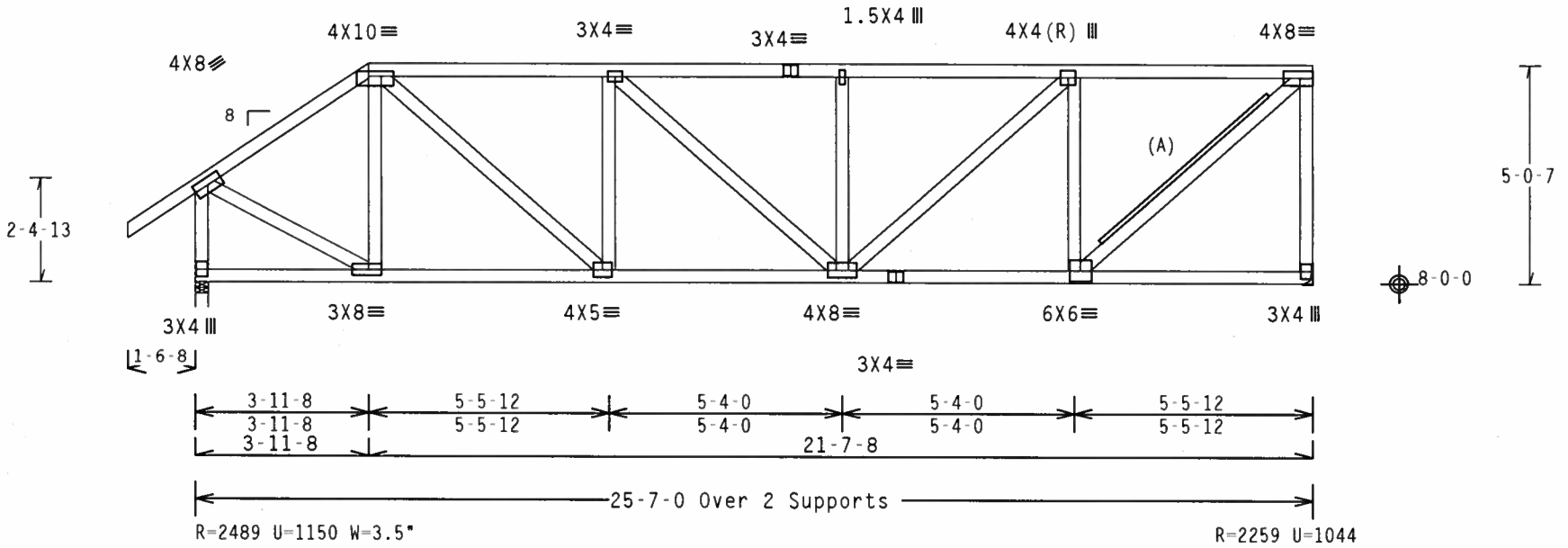
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 50 PLF at -1.50 to 50 PLF at -1.49
TC - From 134 PLF at -1.49 to 134 PLF at 25.58
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 44 PLF at 0.00 to 44 PLF at 25.58

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

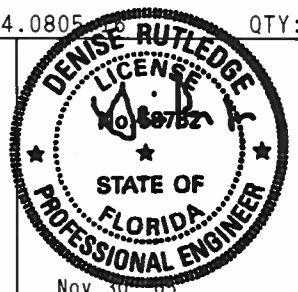


Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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 BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43873
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333048
BC LL	0.0 PSF	HC-ENG	JB/ADR
TOT.LD.	40.0 PSF	SEQN-	43132
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR. SPEC #4 ROLLING M - A2)

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

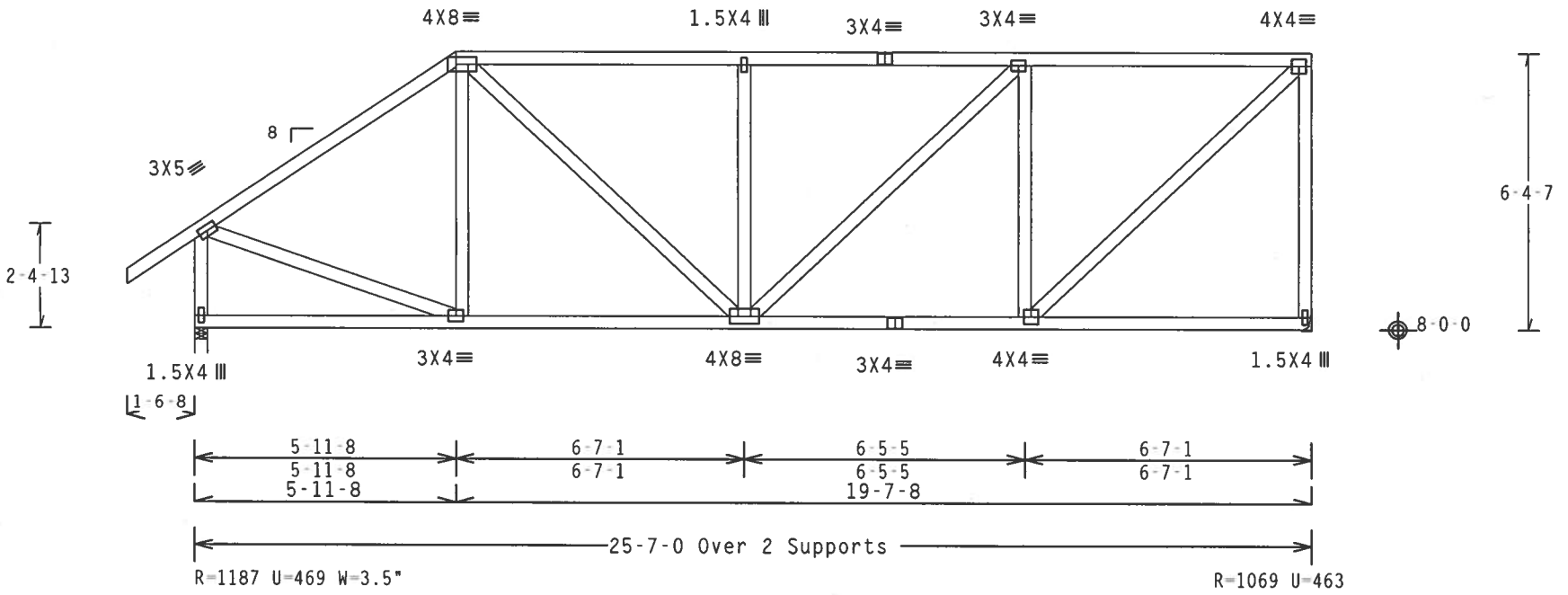
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

110 mph wind, 11.87 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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 BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DENISE RUTLEDGE LICENSE No. 58702 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43874
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333034
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	43122
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - A3)

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

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

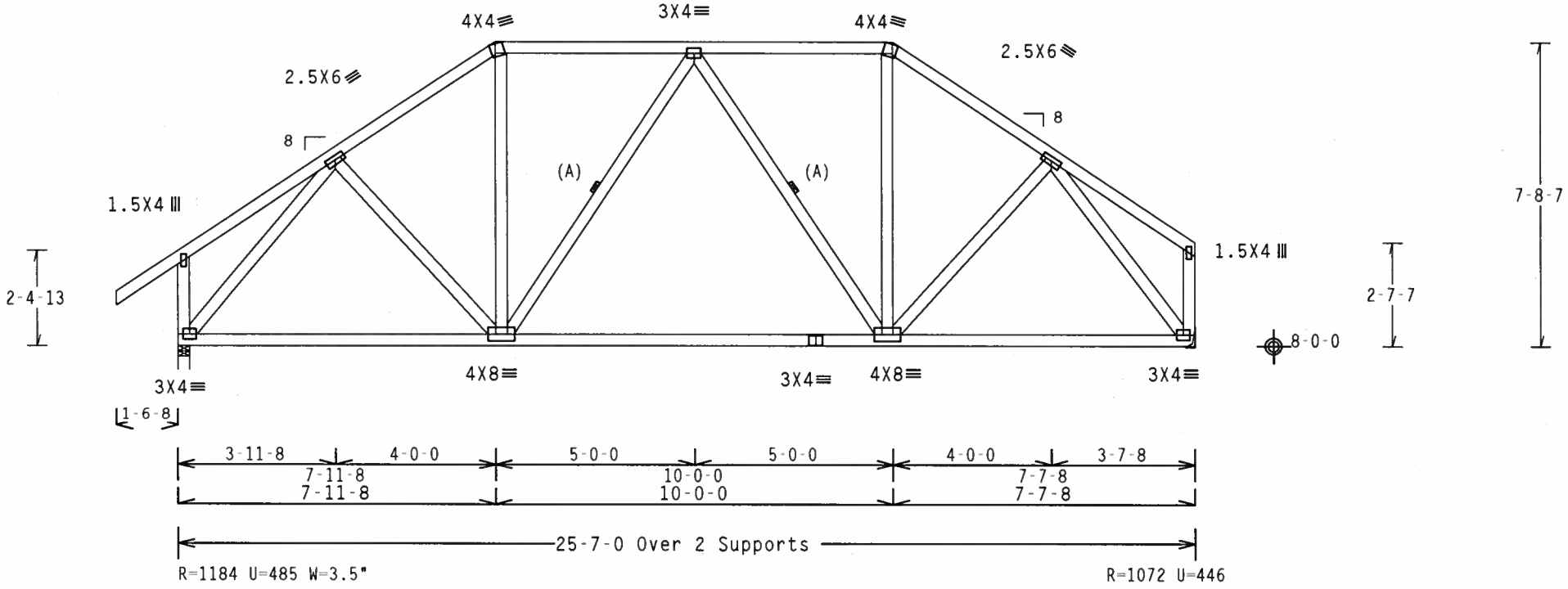
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 12.54 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.080 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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 BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DENISE RUTLEDGE LICENSE No. 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43875
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333044
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	43061
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - A4 ,

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Rt Wedge 2x6 SP #2:

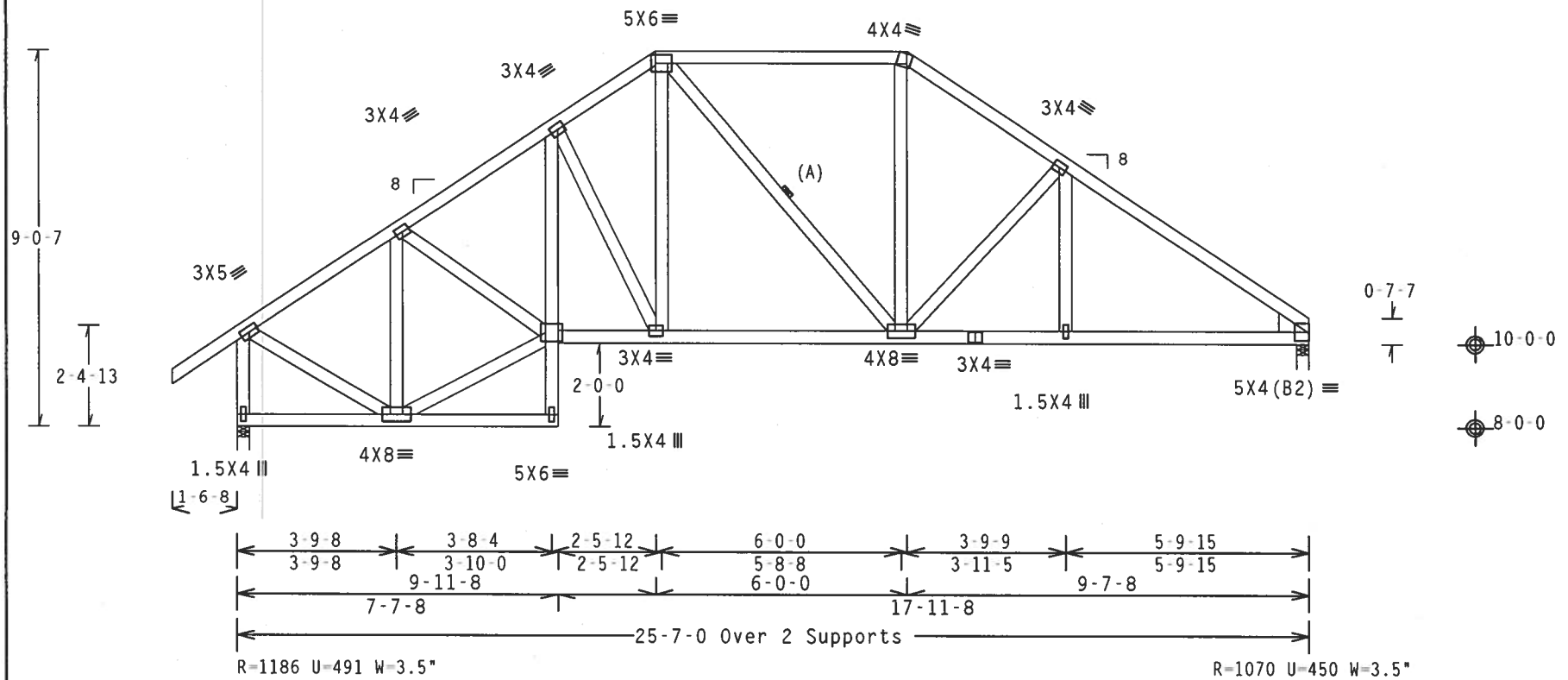
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

110 mph wind, 13.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.080E QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

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DENISE RUTLEDGE LICENSE No. 58762 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43876
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333045
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	43067
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

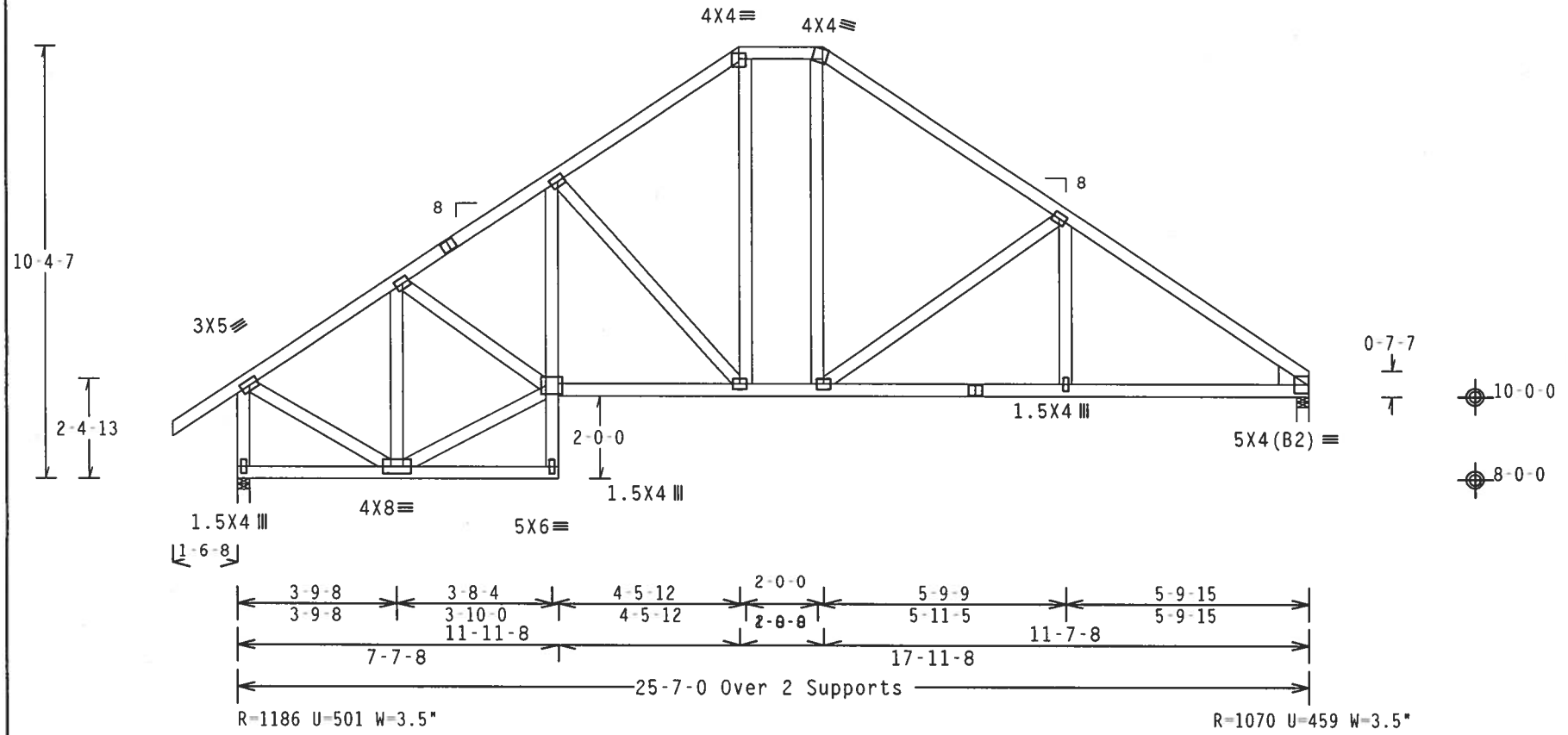
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Rt Wedge 2x6 SP #2:

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

110 mph wind, 13.87 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

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



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

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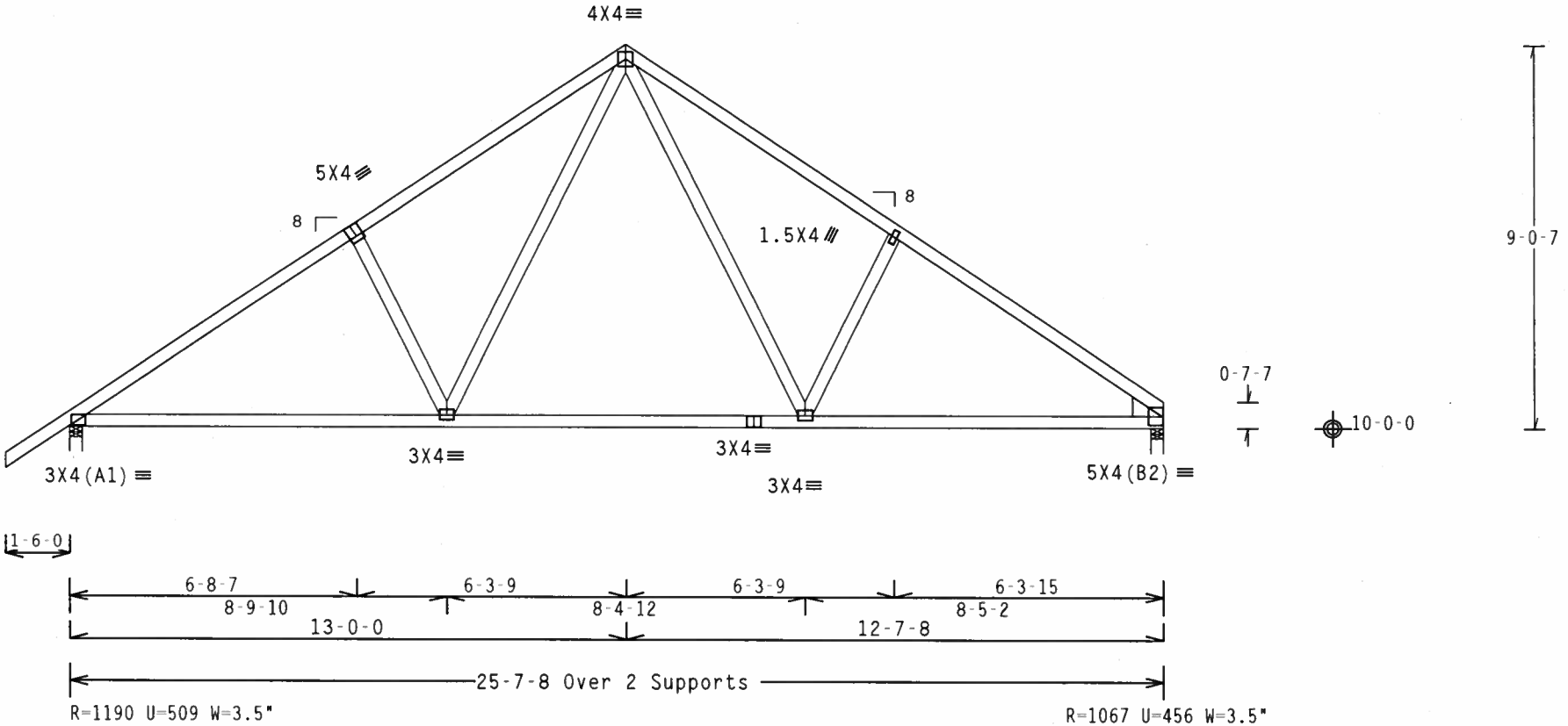
DENISE RUTLEDGE LICENSE No. 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43877
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333023
BC LL	0.0 PSF		HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN-	43078
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1SSL487_Z02

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Rt Wedge 2x6 SP #2:

110 mph wind, 14.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.04.080 QTY:2 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43878
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333047
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42987
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W5, W7, W8 2x4 SP #2 Dense:

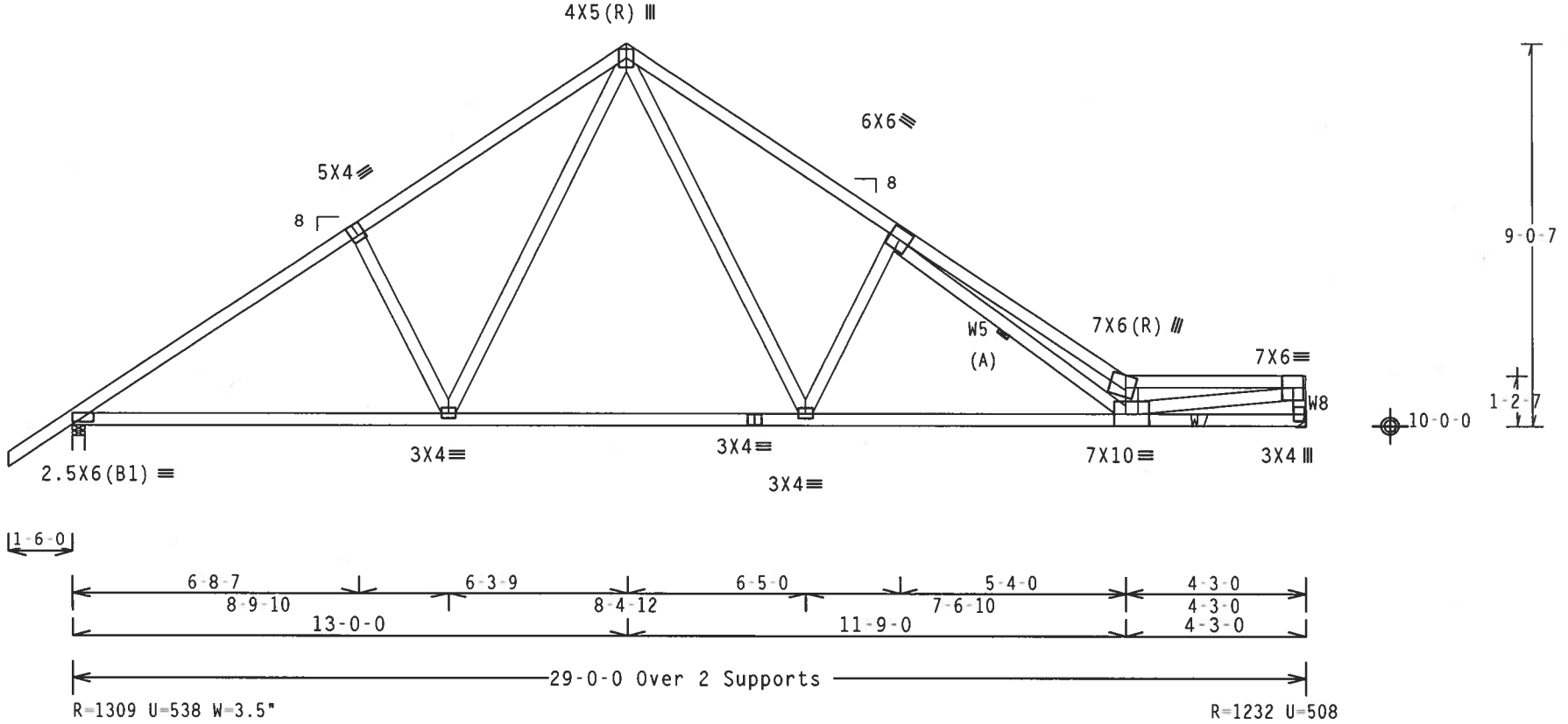
Calculated horizontal deflection is 0.10" due to live load and 0.16" due to dead load.

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

110 mph wind, 14.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

(A) Continuous lateral bracing equally spaced on member.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.0805.16 QTY:6 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

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

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DENISE RUTLEDGE LICENSE No.58752 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43879
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333042
BC LL	0.0 PSF		HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42977
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1SSL487_Z02

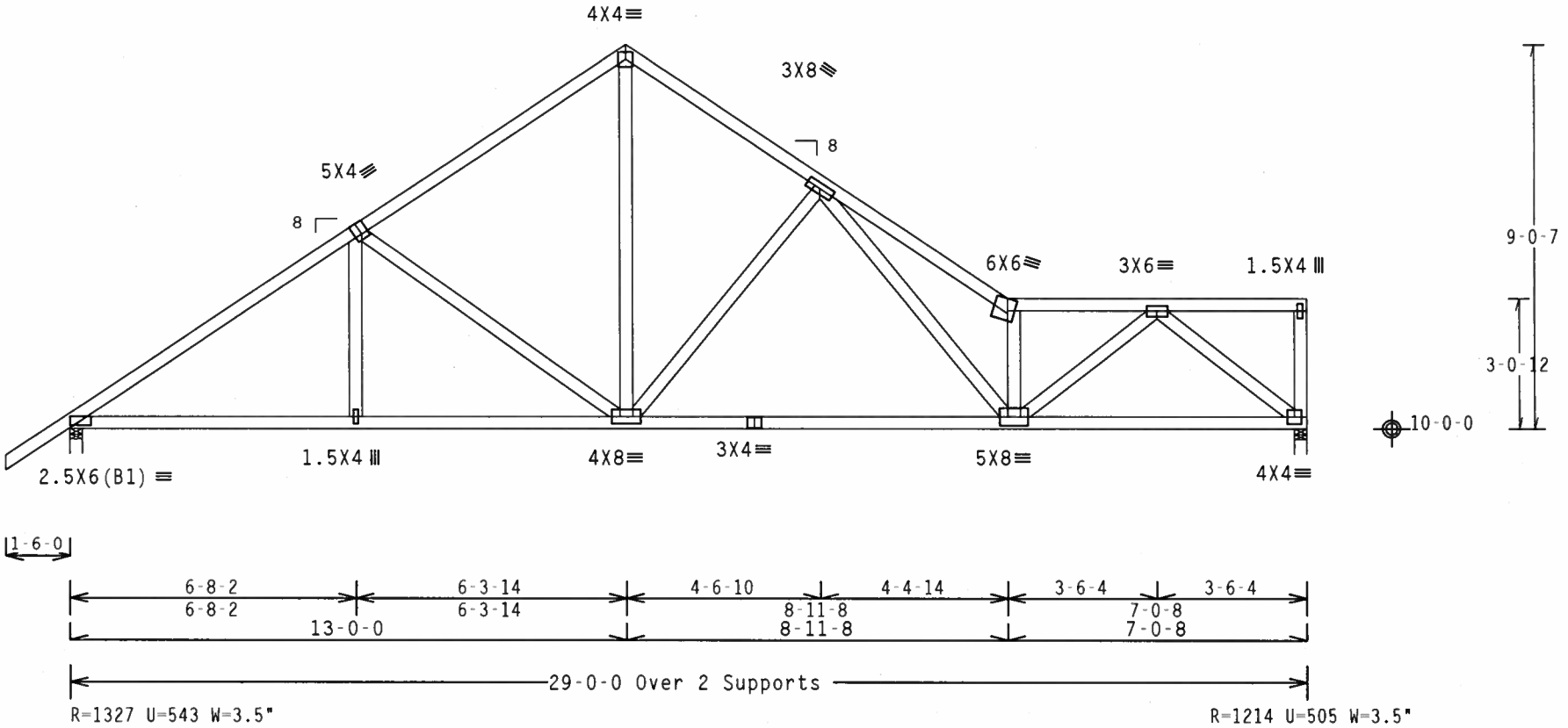
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 14.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.080E QTY:3 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
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FL Certificate of Authorization # 567

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DENISE RUTLEDGE LICENSE No. 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43880
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333010
BC LL	0.0 PSF		HC-ENG DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42912
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B2 2x6 SP #2:
Webs 2x4 SP #3

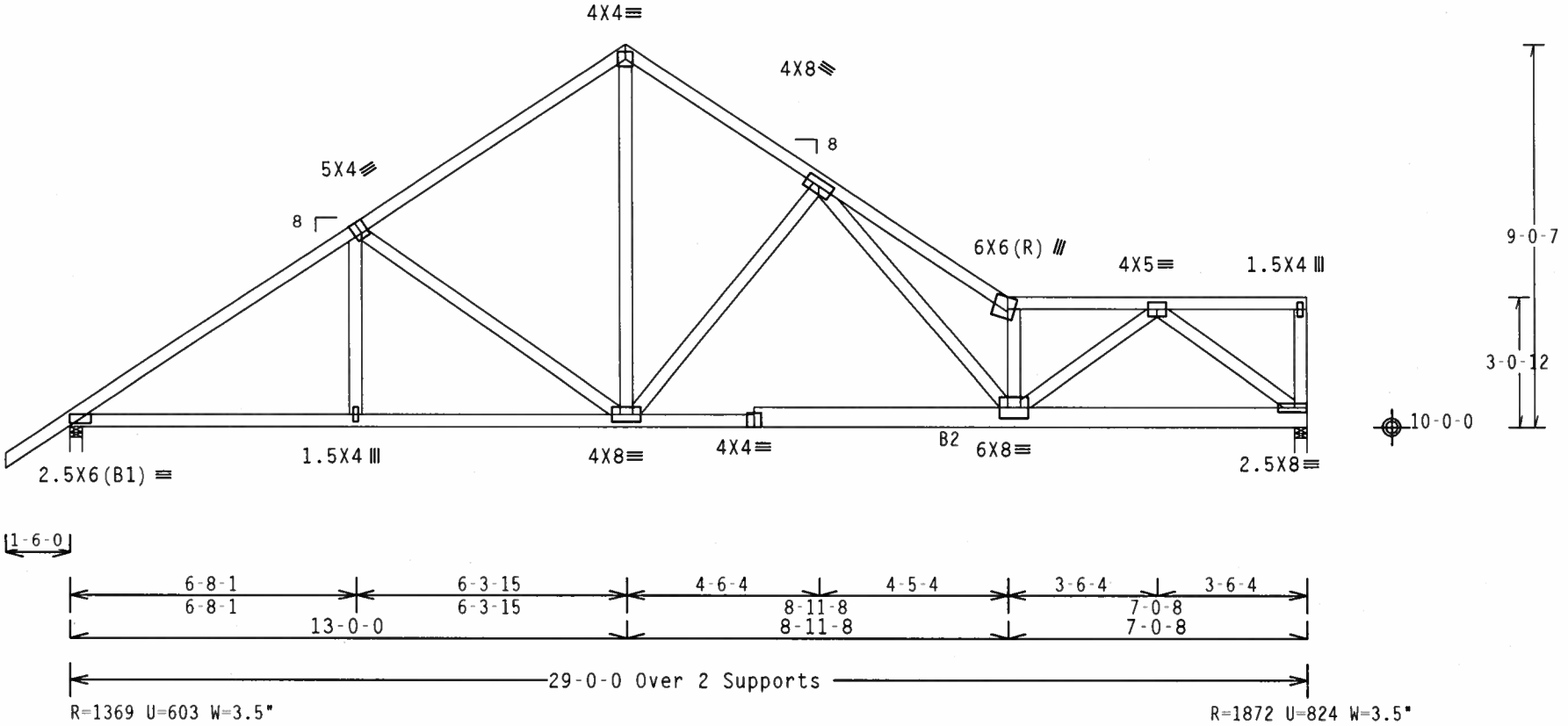
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 29.00
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 29.00
BC - 305 LB Conc. Load at 26.00
BC - 397 LB Conc. Load at 28.00

110 mph wind, 14.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave | Cq/RT=1.00(1.25)/10(0) 7.04.0805 | QTY:1 | FL/-/4/-/-/R/- | Scale =.25"/Ft.

ALPINE
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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43881
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333025
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42930
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - B1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W10 2x4 SP #2 Dense:

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

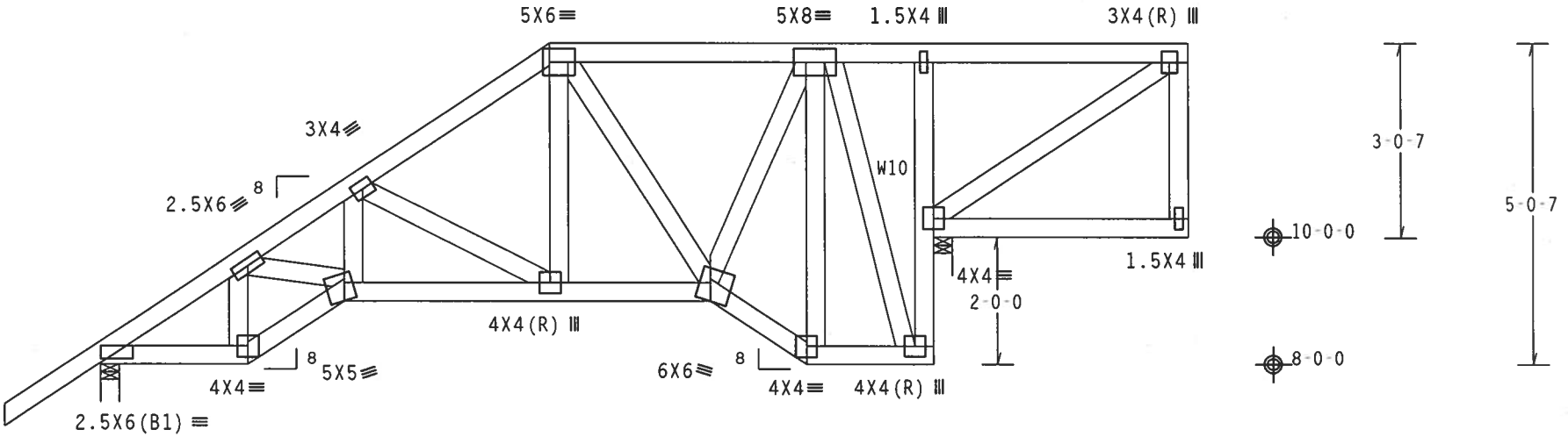
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

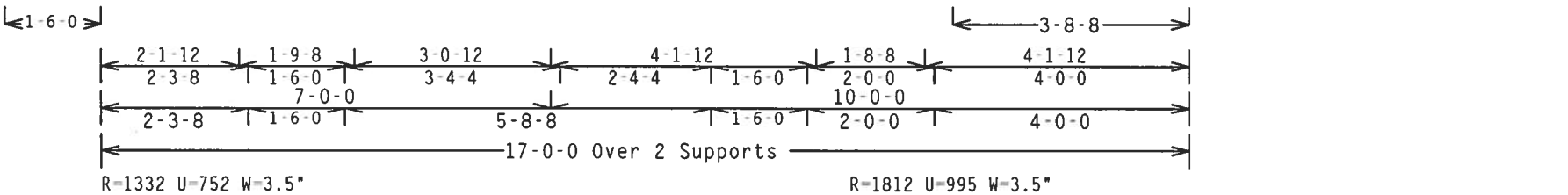
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	64 PLF	at	-1.50	to	64 PLF	at 17.00
BC - From	5 PLF	at	-1.50	to	5 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 2.29
BC - From	24 PLF	at	2.29	to	24 PLF	at 3.79
BC - From	20 PLF	at	3.79	to	20 PLF	at 9.50
BC - From	24 PLF	at	9.50	to	24 PLF	at 11.00
BC - From	20 PLF	at	11.00	to	20 PLF	at 17.00

TC - 652 LB Conc. Load at 7.06
BC - 948 LB Conc. Load at 7.06

Right end vertical not exposed to wind pressure.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.080[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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 BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43882
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333014
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42782
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - - SPARKS CONSTR. SPEC #4 ROLLING M - B2)

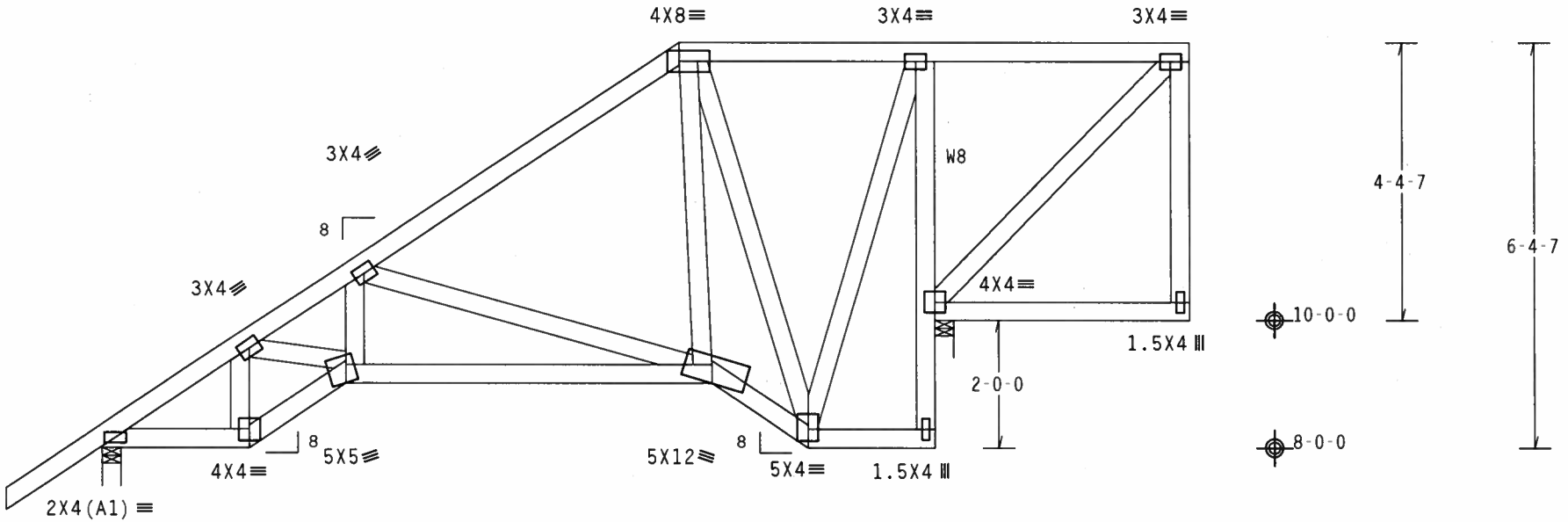
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W8 2x4 SP #2 Dense:

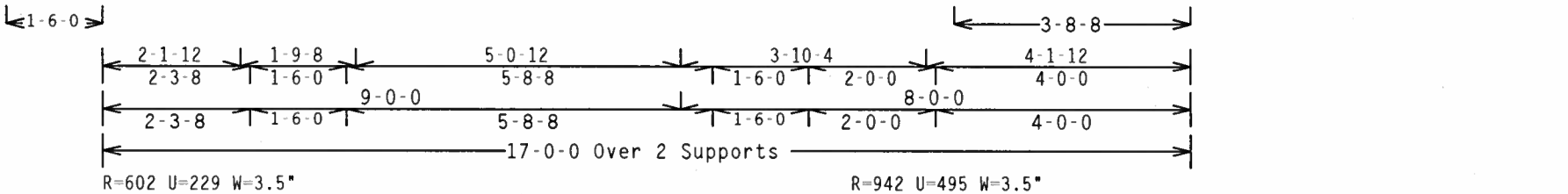
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

110 mph wind, 10.87 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave | Cq/RT=1.00(1.25)/10(0) 7.04.0805 | QTY:1 | FL/-/4/-/-/R/- | Scale =.375"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 68752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43883
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333015
BC LL	0.0 PSF		HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42789
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1SSL487_Z02

(5 514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - B3)

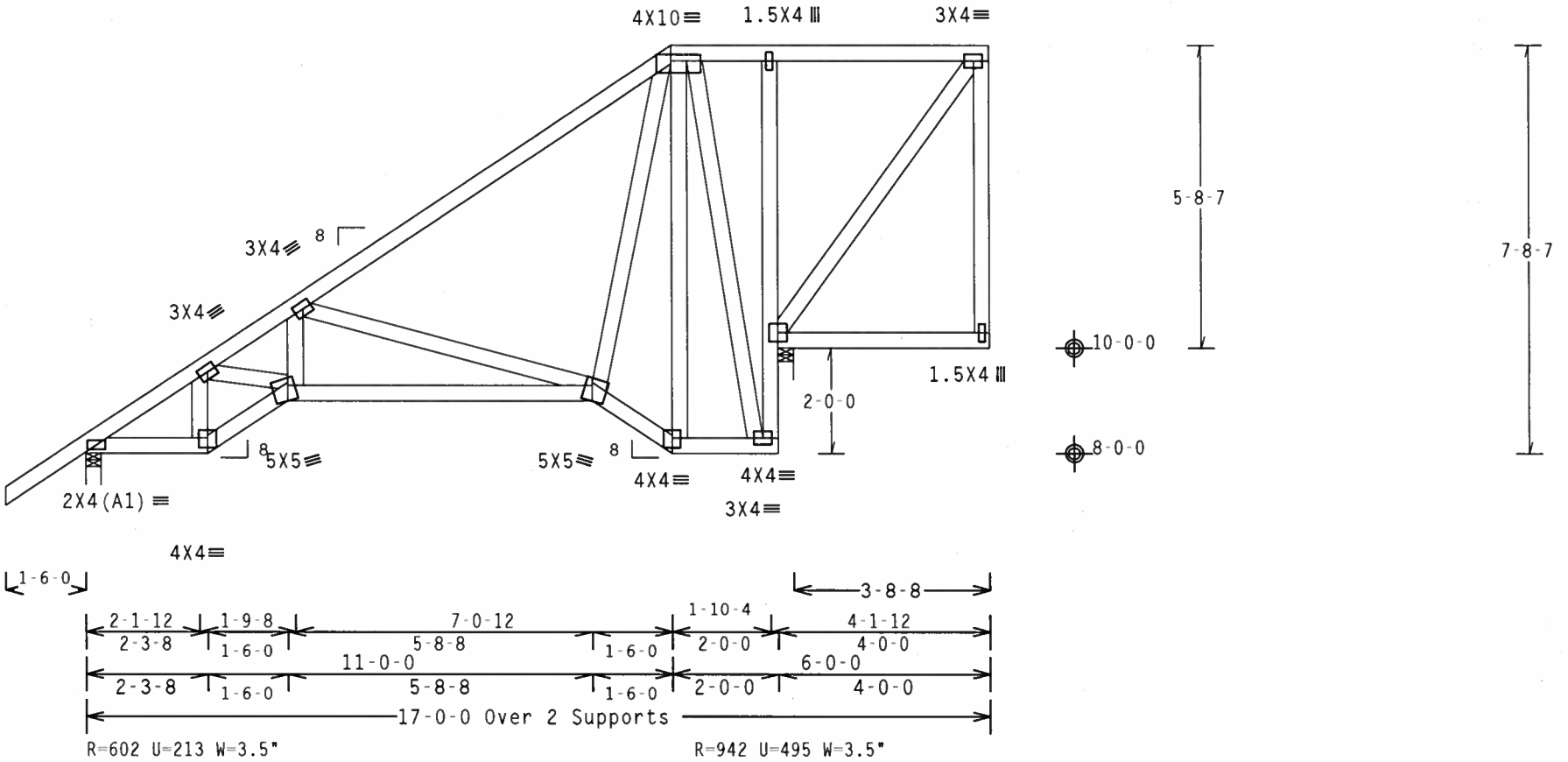
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 11.54 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 58152 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43884
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333019
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42795
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - B4)

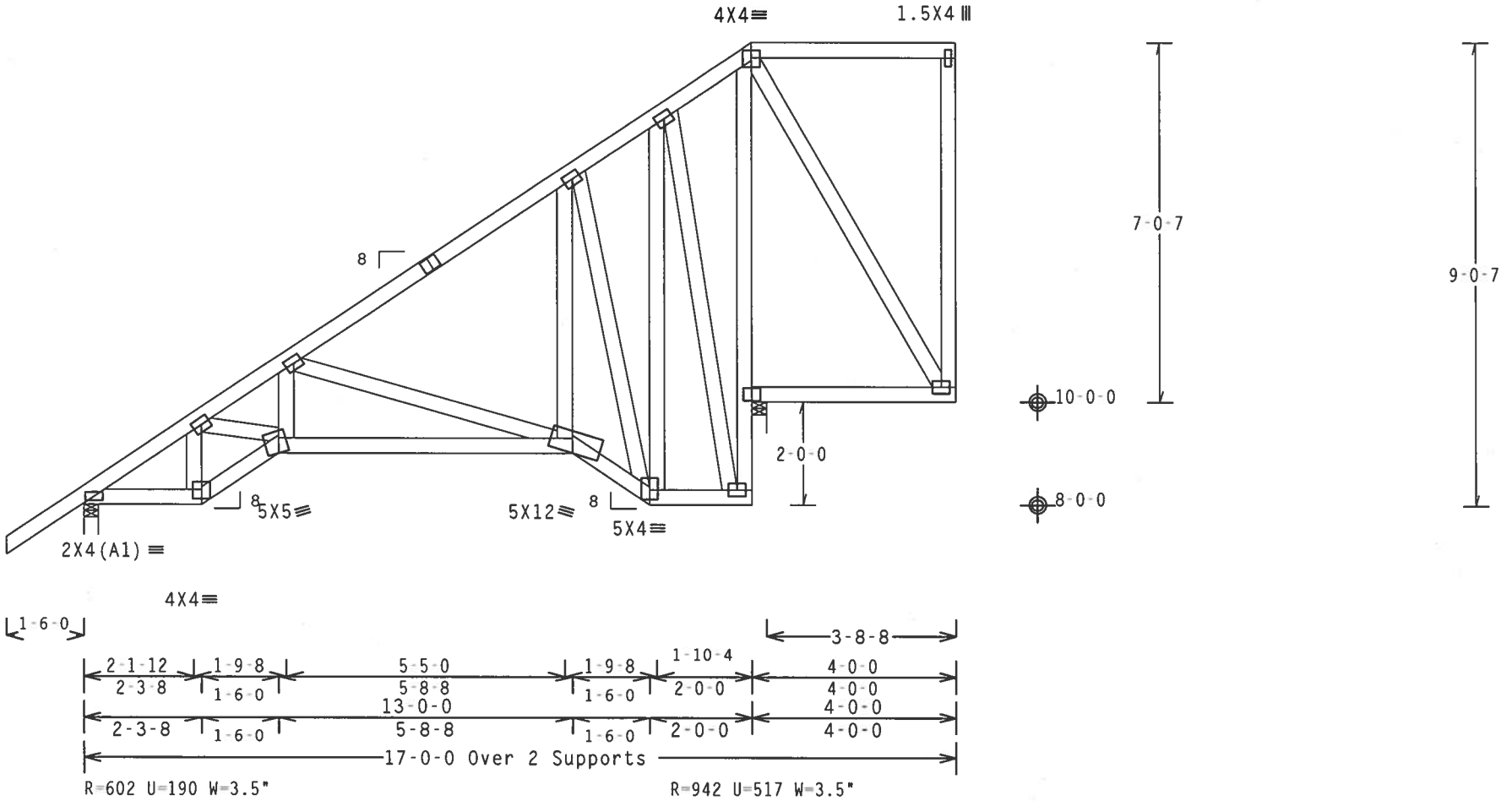
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 12.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.



Note: All Plates Are 3X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.08[illegible]6 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43885
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333020
BC LL	0.0 PSF		HC-ENG DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42805
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR. SPEC #4 ROLLING M - B5)

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

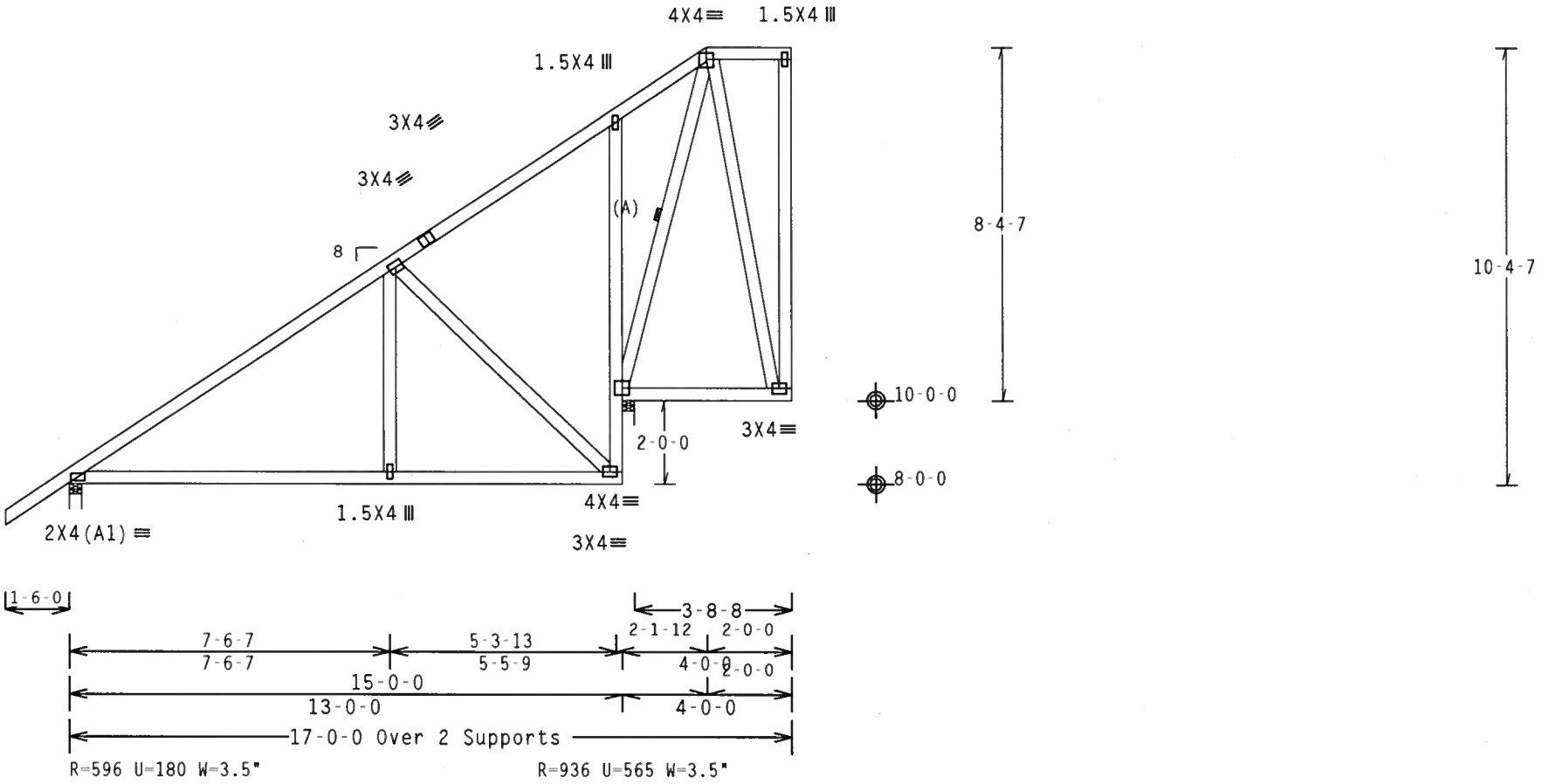
(A) Continuous lateral bracing equally spaced on member. Or 1x4 #3 or better "T" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

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

110 mph wind, 12.87 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cg/RT=1.00(1.25)/10(0) 7.04.0805 QTY:2 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

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

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DENISE RUTLEDGE LICENSE No. 58762 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43886
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333035
BC LL	0.0 PSF		HC-ENG DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42875
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR. SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR. SPEC #4 ROLLING M - BB1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W4 2x4 SP #2 Dense:

Calculated horizontal deflection is 0.10" due to live load and 0.22" due to dead load.

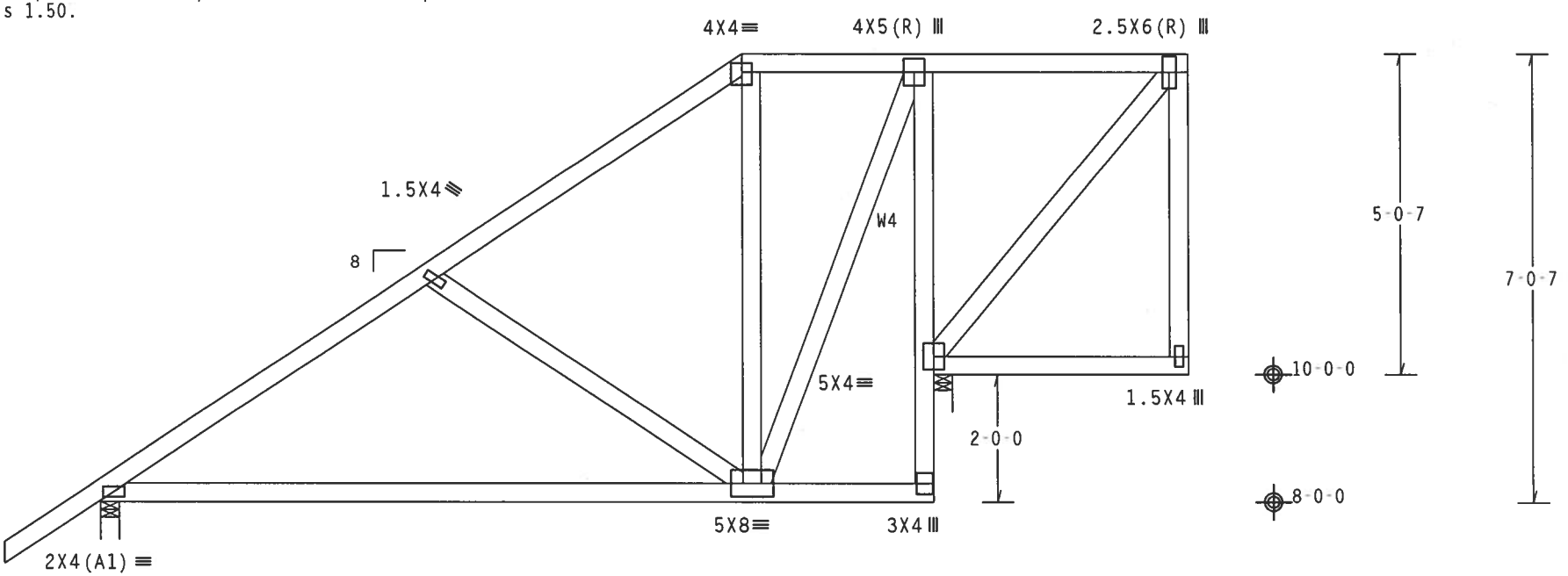
#1 hip supports 10-0-0 jacks with no webs.

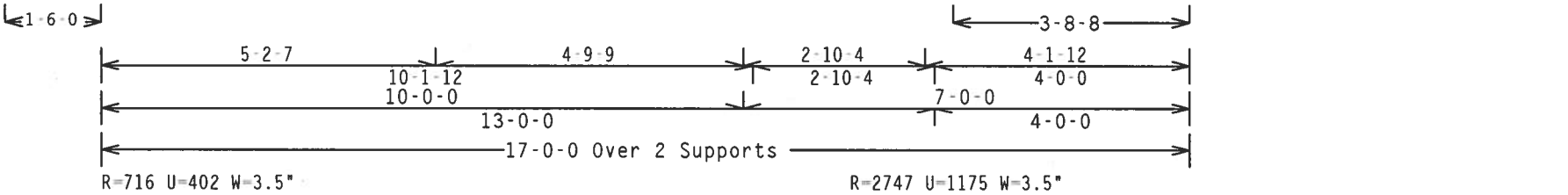
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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DENISE RUTLEDGE LICENSE NO. 68752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43887
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333036
BC LL	0.0 PSF		HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42864
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - BB2)

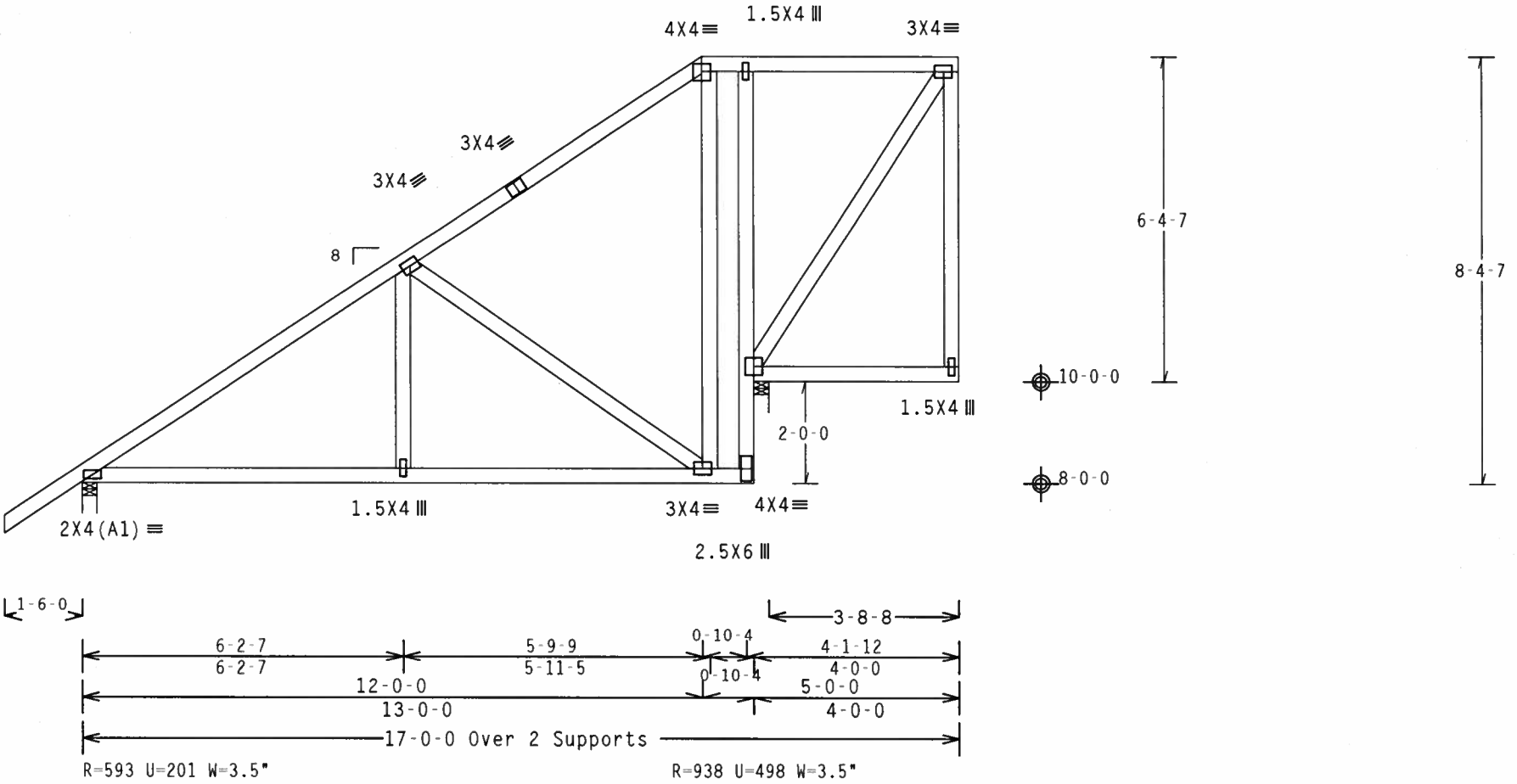
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 11.87 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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DENISE RUTLEDGE LICENSE 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43888
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333007
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42853
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - SPARKS CONSTR.-SPEC #4 ROLLING M - BB3)

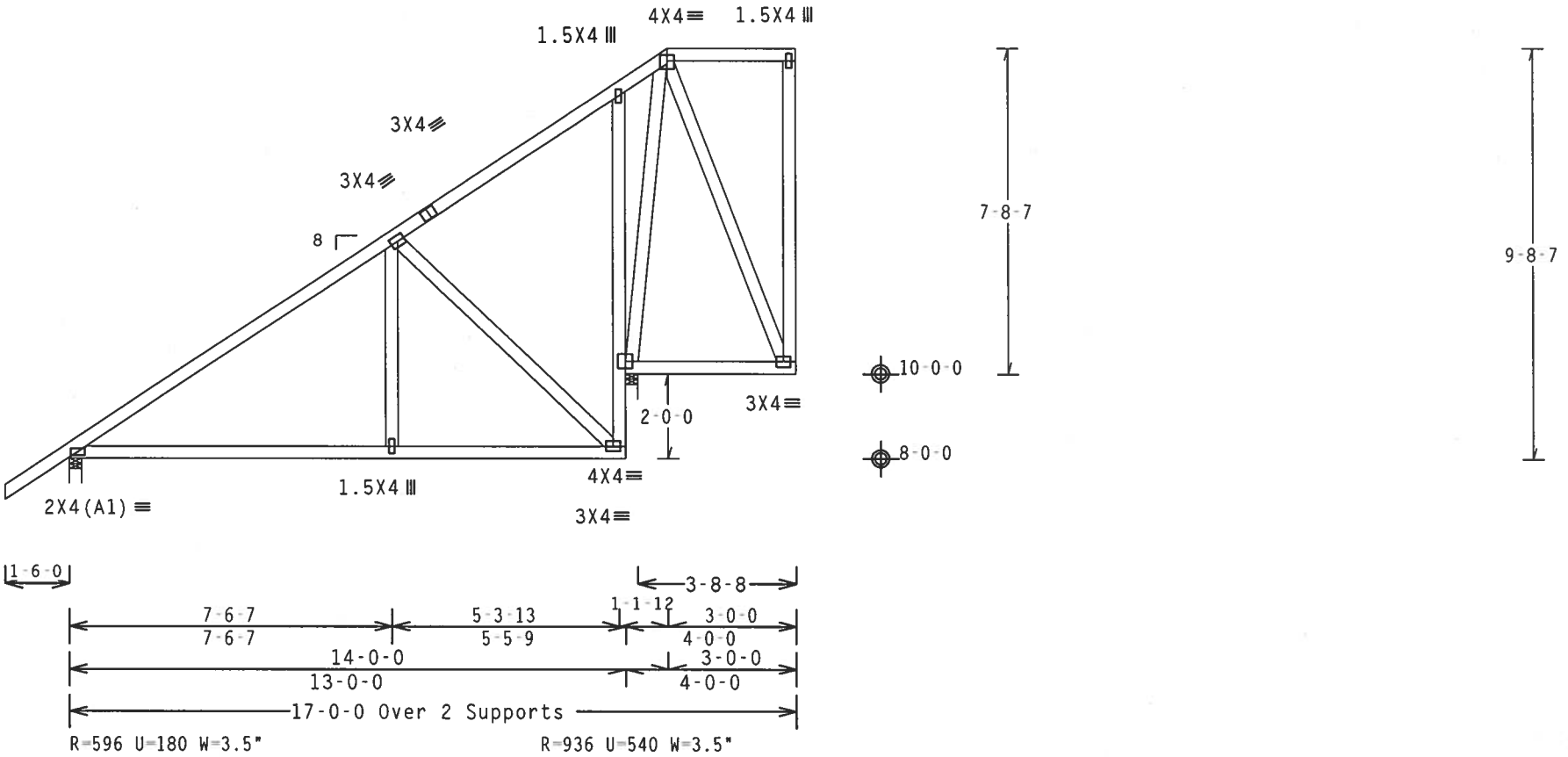
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 12.54 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

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

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

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

DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43889
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333008
BC LL	0.0 PSF		HC-ENG DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42843
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - C1 GL)

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

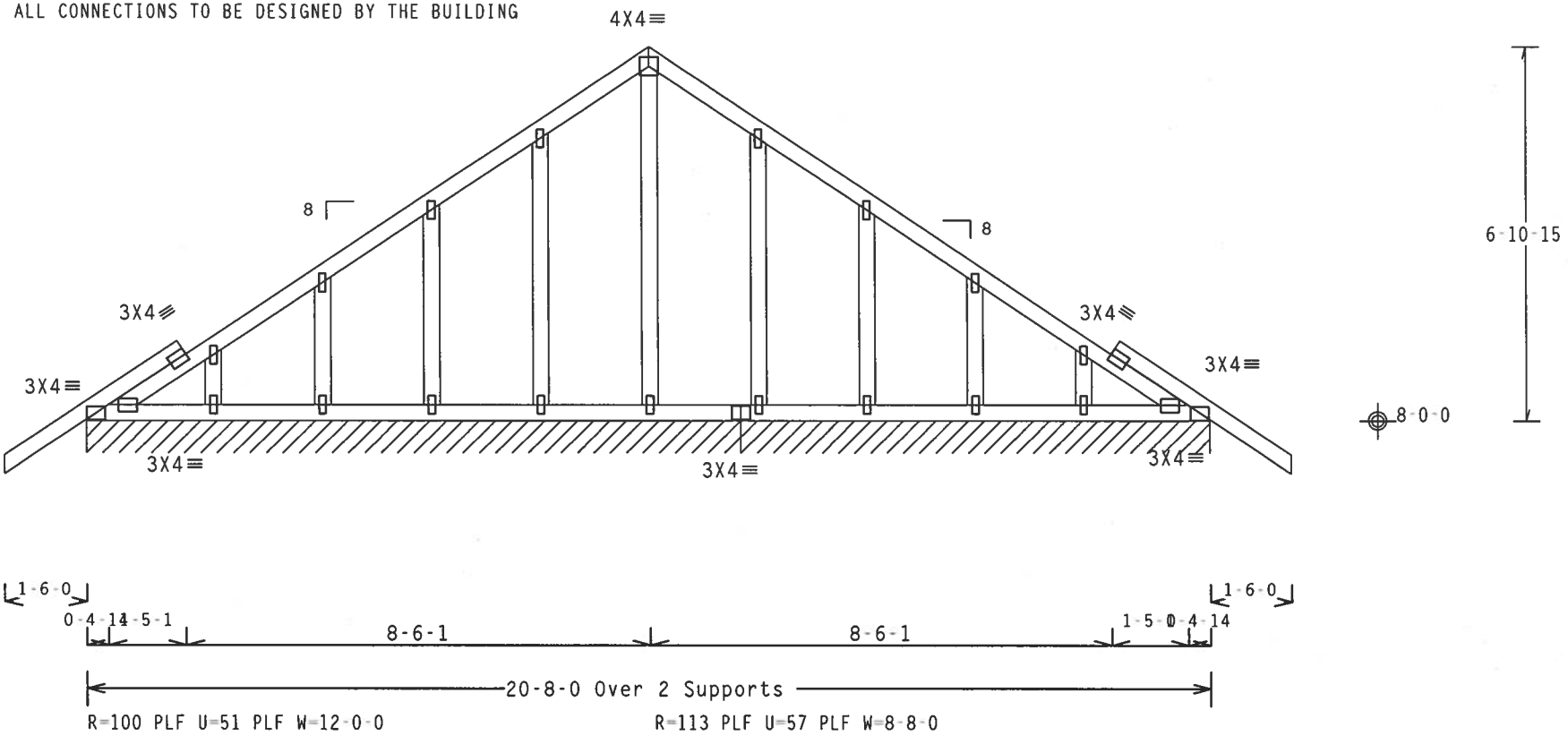
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 85 PLF at -1.50 to 85 PLF at 10.33
TC - From 85 PLF at 10.33 to 85 PLF at 22.17
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 20.67
BC - From 5 PLF at 20.67 to 5 PLF at 22.17

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

110 mph wind, 11.14 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

See DWGS A11015EC1103 & GBLLETIN0405 for more requirements.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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

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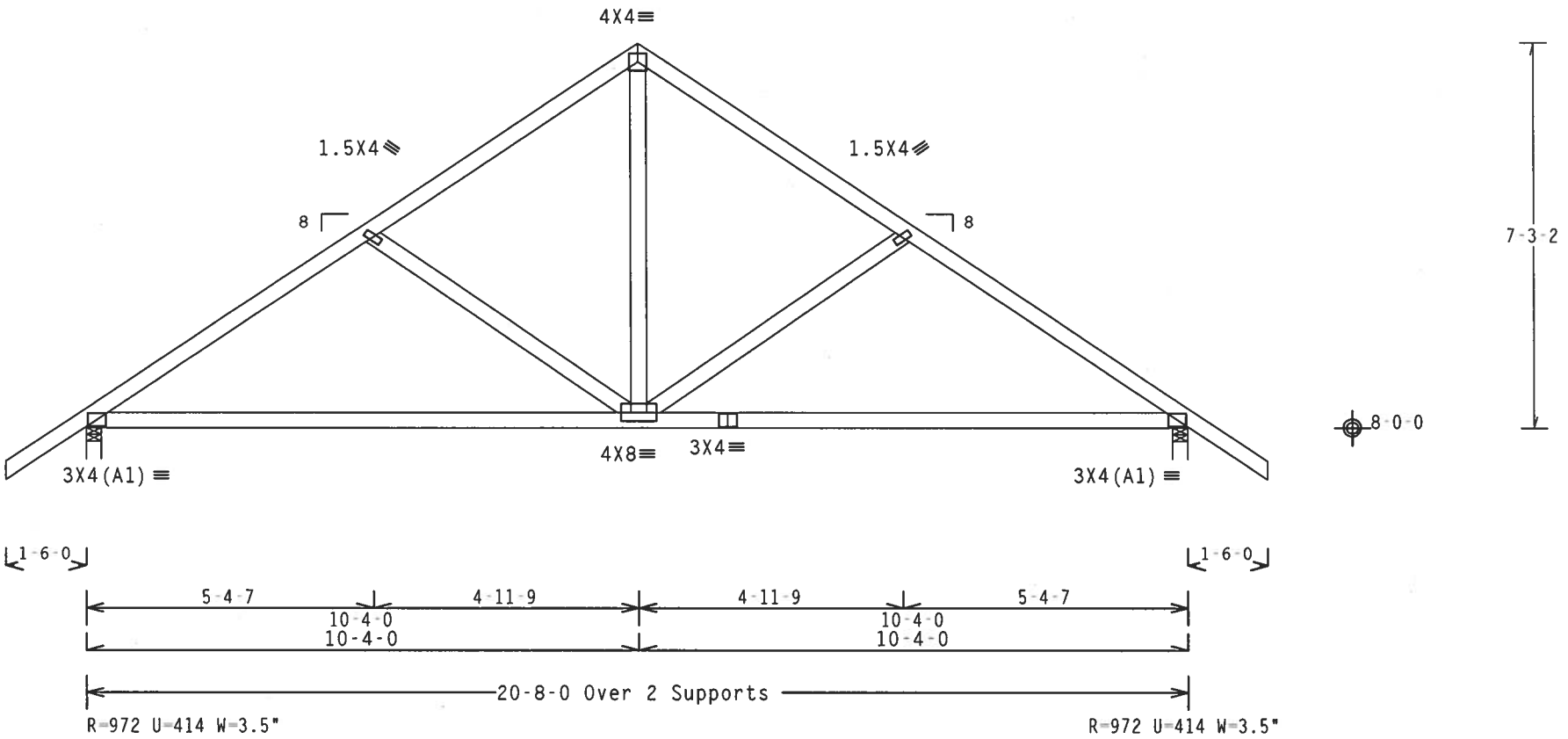
DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43890
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333001
BC LL	0.0 PSF		HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42630 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

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

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

110 mph wind, 11.32 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:9 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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

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DENISE RUTLEDGE LICENSE Ap. 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

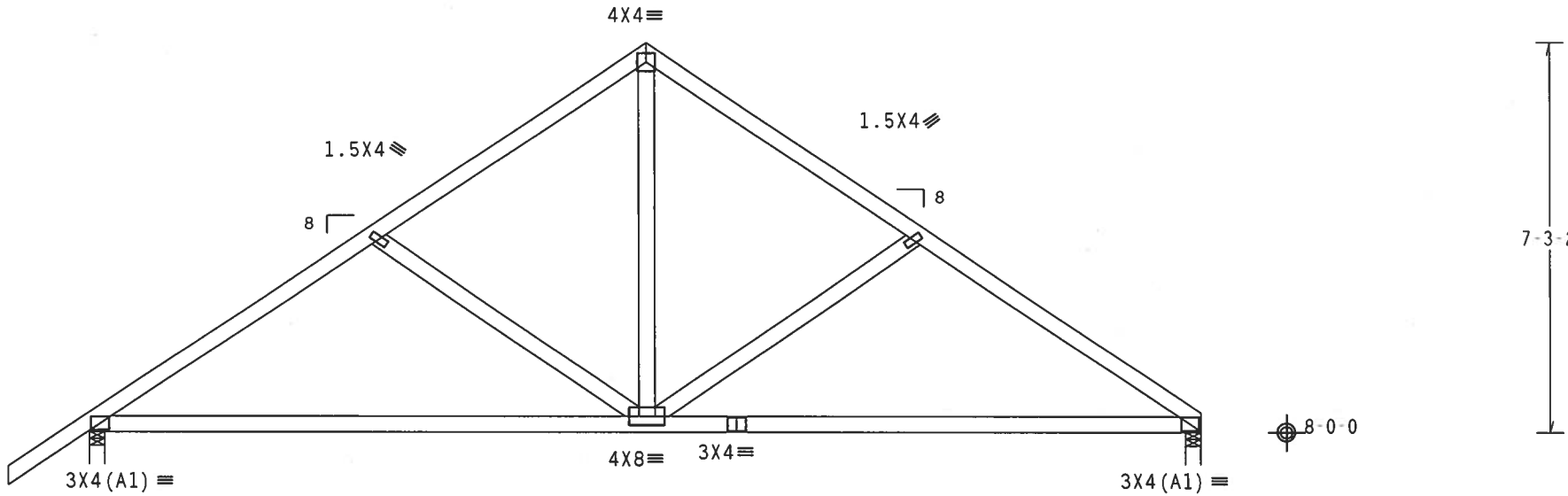
TC LL	20.0 PSF	REF	R487-- 43891
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333012
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42615
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

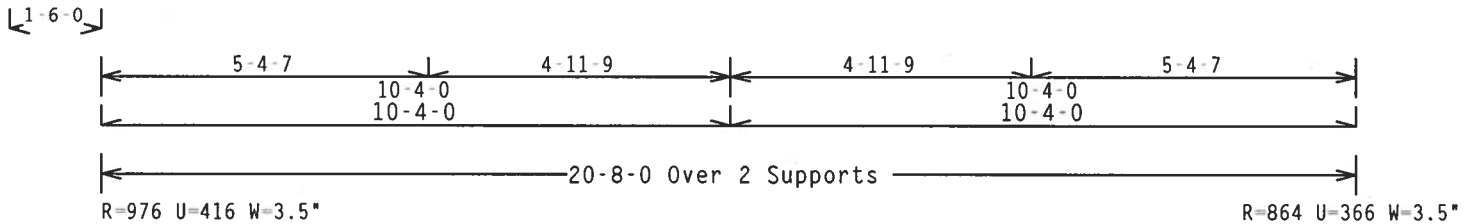
(5-514 SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - C3)

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

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

110 mph wind, 11.32 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:5 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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

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DENISE RUTLEDGE LICENSE No.58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43892
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333002
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42622
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(J-514 SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - C4G)

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
Webs 2x4 SP #3

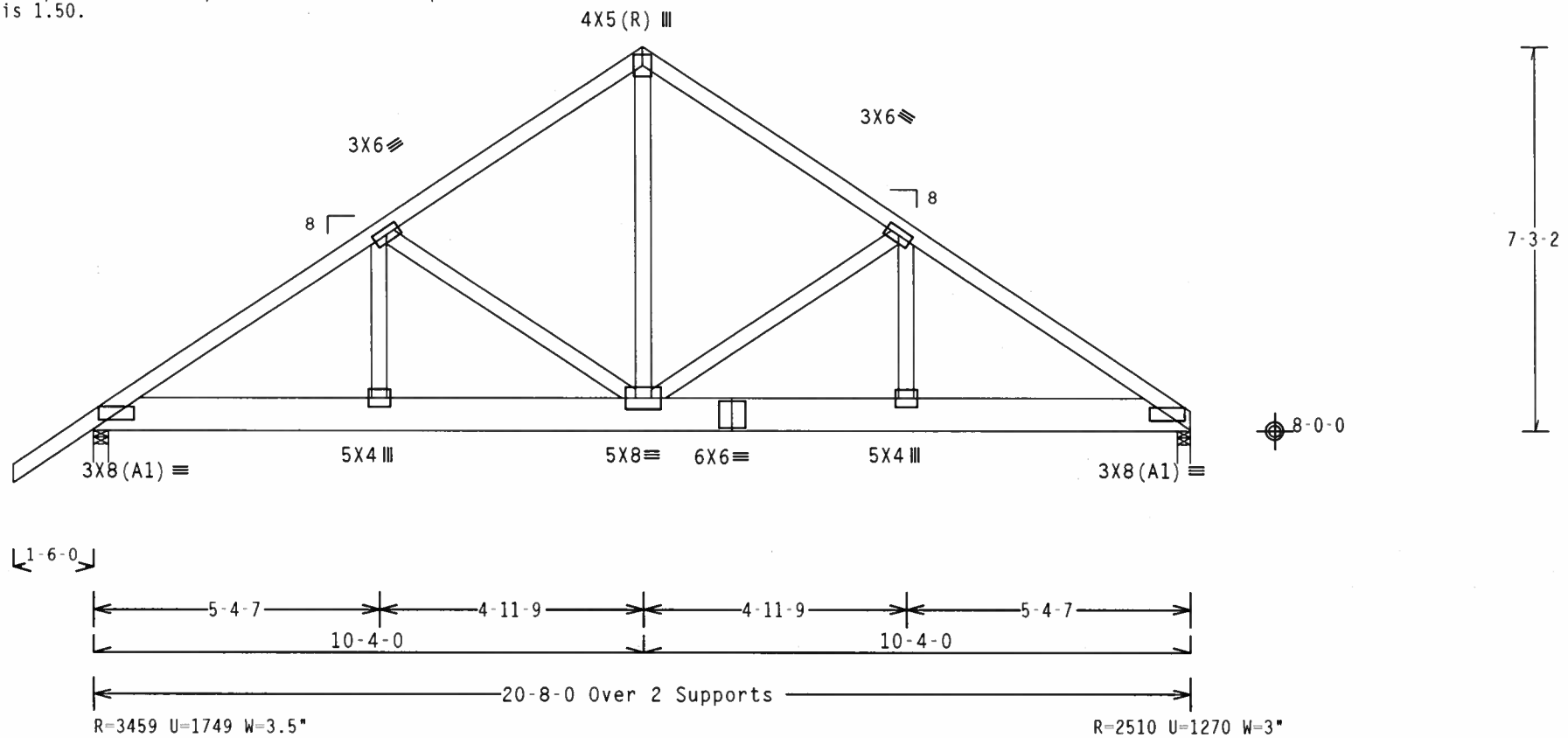
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 20.67
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 8.00
BC - From 530 PLF at 8.00 to 530 PLF at 11.67
BC - From 20 PLF at 11.67 to 20 PLF at 20.67
BC - 2259 LB Conc. Load at 7.00

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Common_(0.148"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.25" 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, 11.32 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43893
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333046
BC LL	0.0 PSF		HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN-	43149
DUR.FAC.	1.25		
SPACING	SEE ABOVE		JREF- 1SSL487_Z02

(J-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - D1 GL)

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

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

TC - From	85 PLF	at	-1.50	to	85 PLF	at 12.46
BC - From	5 PLF	at	-1.50	to	5 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 10.96
BC - From	5 PLF	at	10.96	to	20 PLF	at 10.96
BC - From	5 PLF	at	10.96	to	5 PLF	at 12.46

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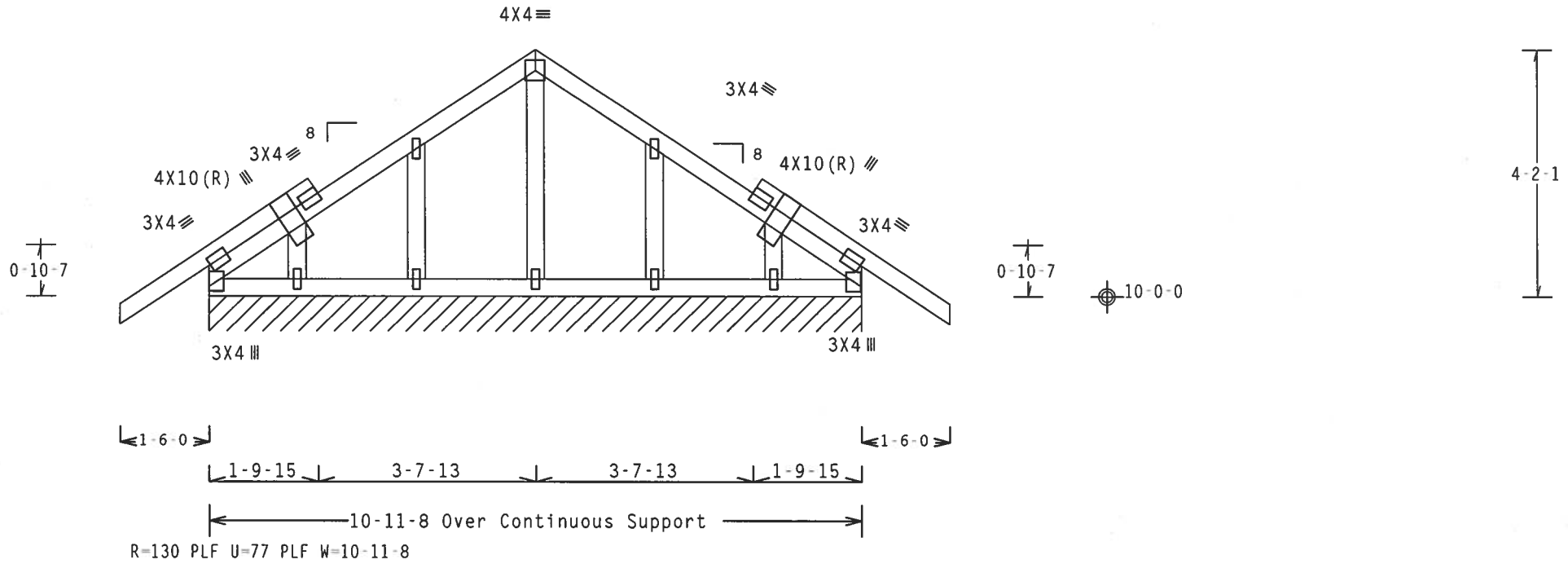
110 mph wind, 12.02 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

See DWGS A11015EC1103 & GBLLETIN0405 for more requirements.

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



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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DENISE RUTLEDGE LICENSE NO. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30-05

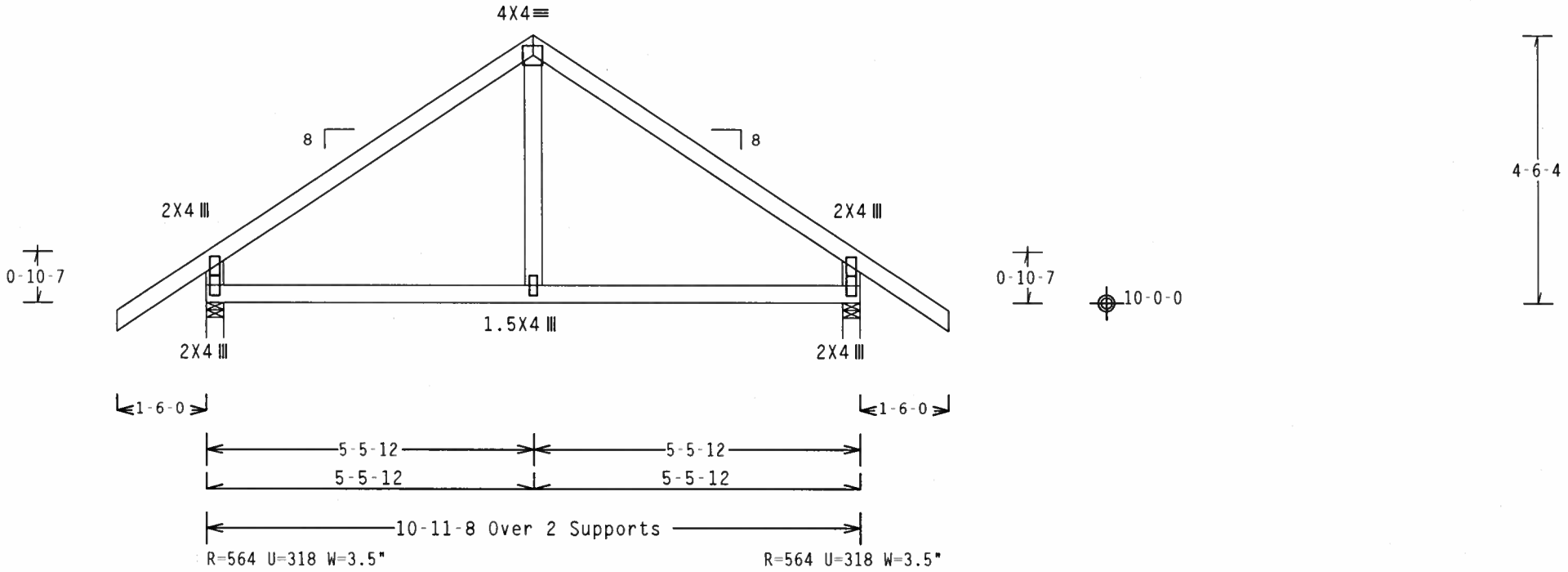
TC LL	20.0 PSF	REF	R487-- 43894
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333032
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42556 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

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

Calculated horizontal deflection is 0.10" due to live load and 0.16" due to dead load.

110 mph wind, 12.20 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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FL Certificate of Authorization # 567

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DENISE RUTLEDGE LICENSE No. 58767 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43895
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333033
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42550
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(J-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR. SPEC #4 ROLLING M - HJ7A1)

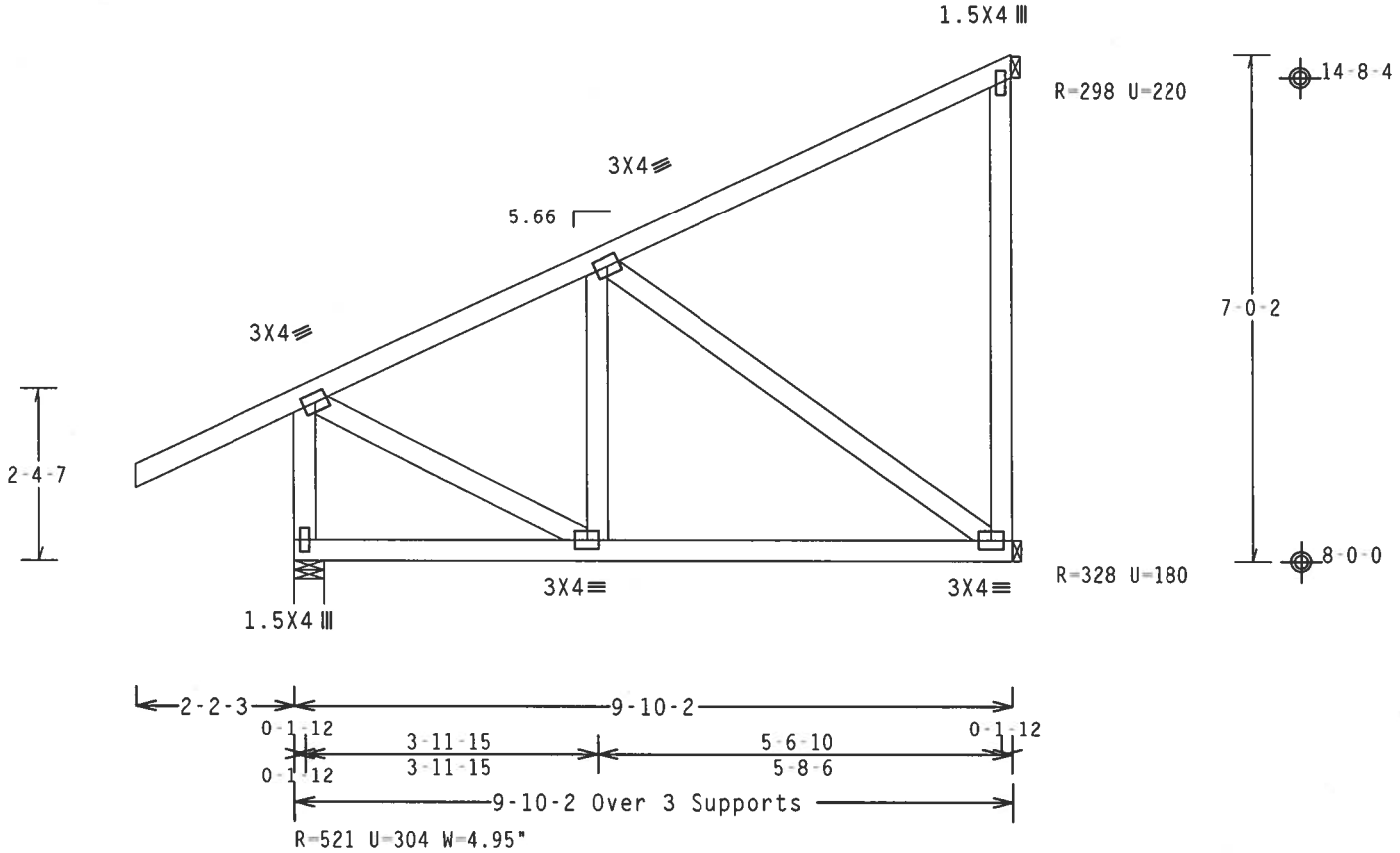
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Hipjack supports 6-11-8 setback jacks with no webs.

Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.080 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43896
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333011
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	43113
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

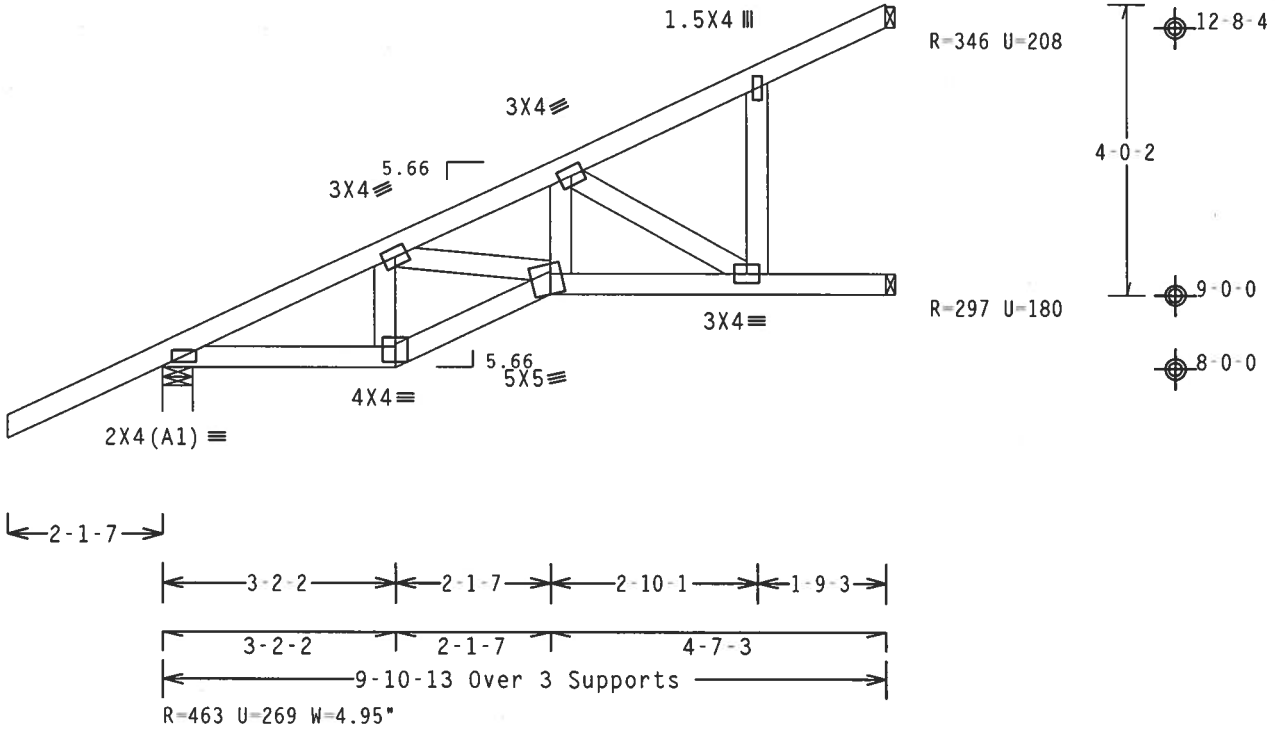
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43897
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333026
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42747
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

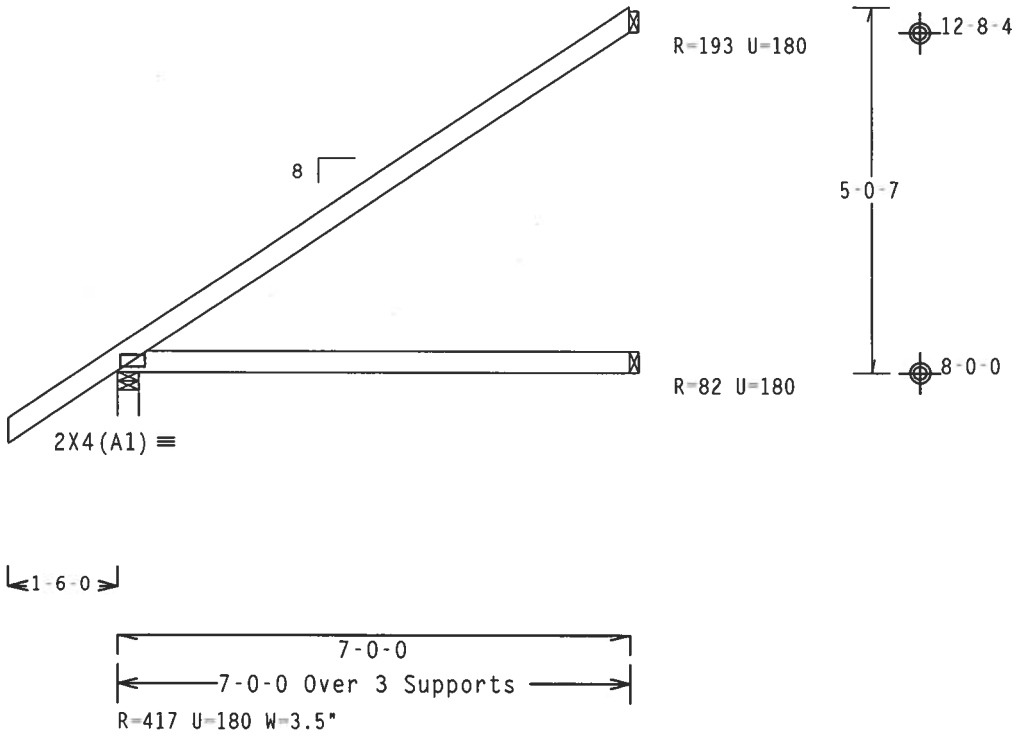
(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - EJ7)

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

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

110 mph wind, 10.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:13 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43898
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333003
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42636
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - MAG)

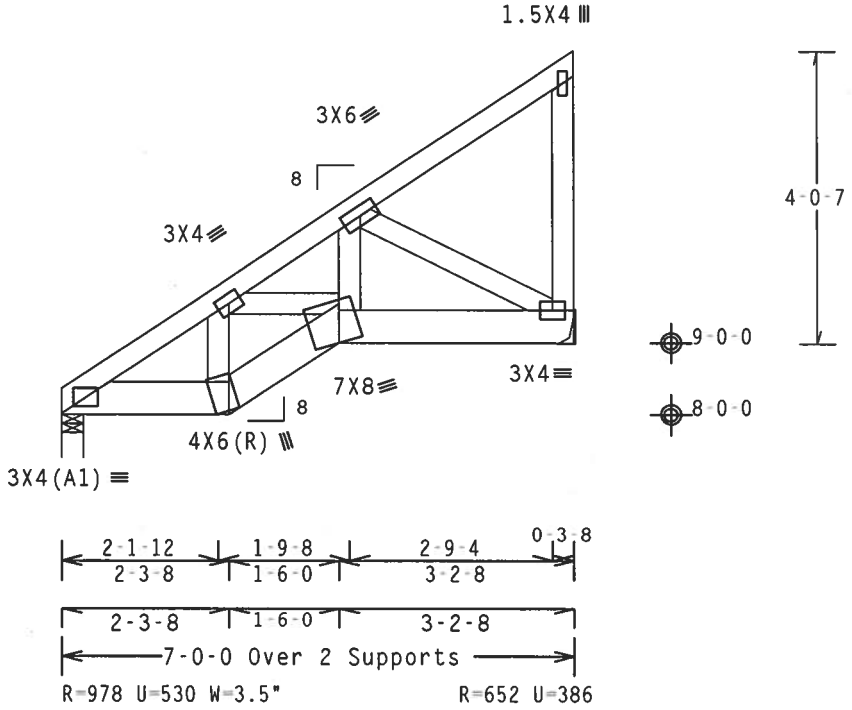
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at 0.00 to 64 PLF at 7.00
BC - From 20 PLF at 0.00 to 20 PLF at 2.29
BC - From 24 PLF at 2.29 to 24 PLF at 3.79
BC - From 20 PLF at 3.79 to 20 PLF at 7.00
BC - 444 LB Conc. Load at 1.13
BC - 452 LB Conc. Load at 3.06
BC - 139 LB Conc. Load at 5.06

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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DENISE RUTLEDGE LICENSE No. 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43899
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333021
BC LL	0.0 PSF		HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42772
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

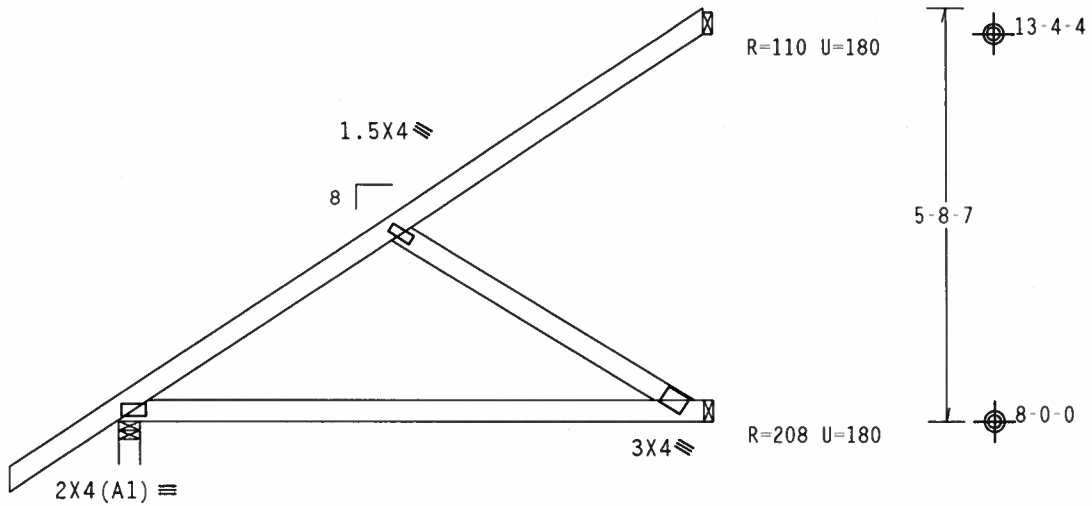
(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - J8A)

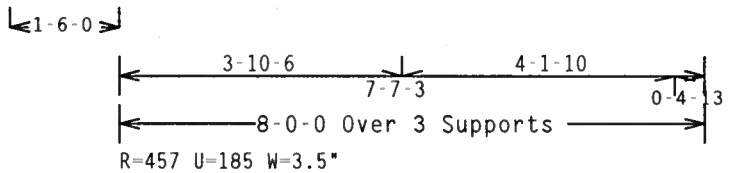
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

110 mph wind, 10.54 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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FL Certificate of Authorization # 567

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DENISE RUTLEDGE LICENSE No. 38762 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43900
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333013
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42707
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

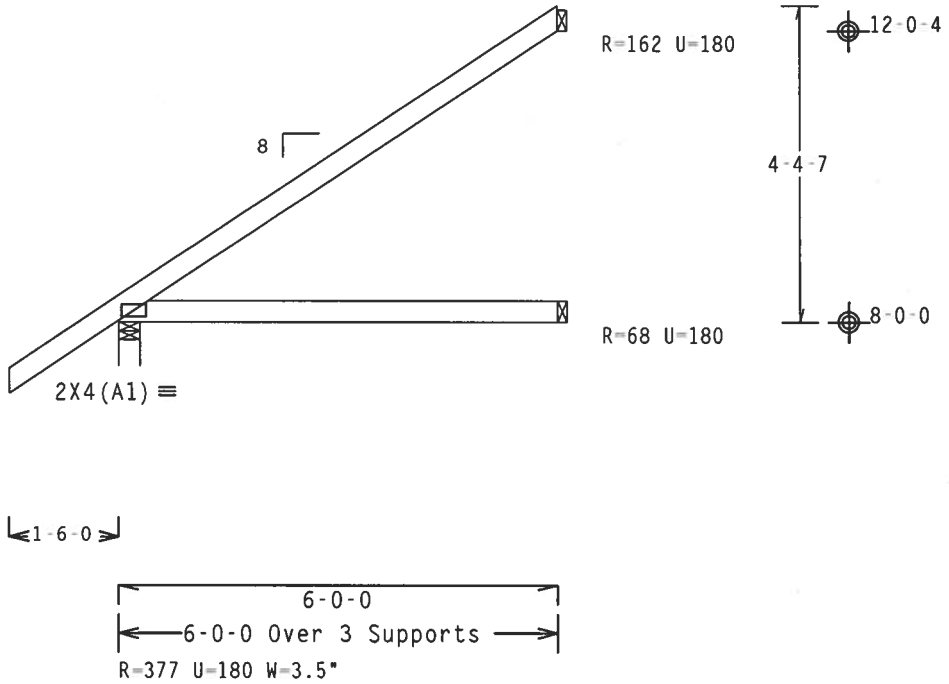
(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - J6A)

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

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

110 mph wind, 9.87 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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DENISE RUTLEDGE LICENSE NO. 58762 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43901
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333016
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42667
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

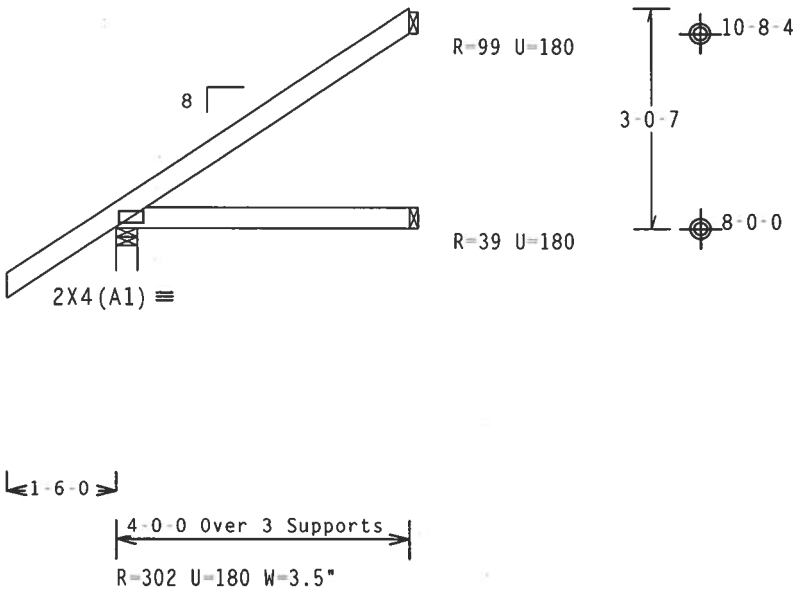
(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - J4A)

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

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

110 mph wind, 9.20 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.080E QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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 BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DENISE RUTLEDGE LICENSE No.58732 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43902
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333017
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42660
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(3-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - J7A1)

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 85 PLF at -1.50 to 85 PLF at 7.00
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00

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

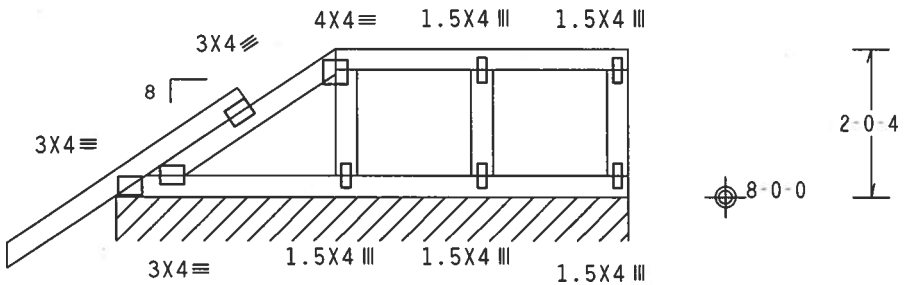
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

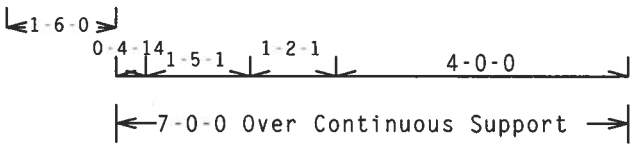
110 mph wind, 8.70 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.

See DWGS A11015EC1103 & GBLLETIN0405 for more requirements.

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





R=106 PLF U=63 PLF W=7-0-0

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43903
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333004
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42654 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - J7A2)

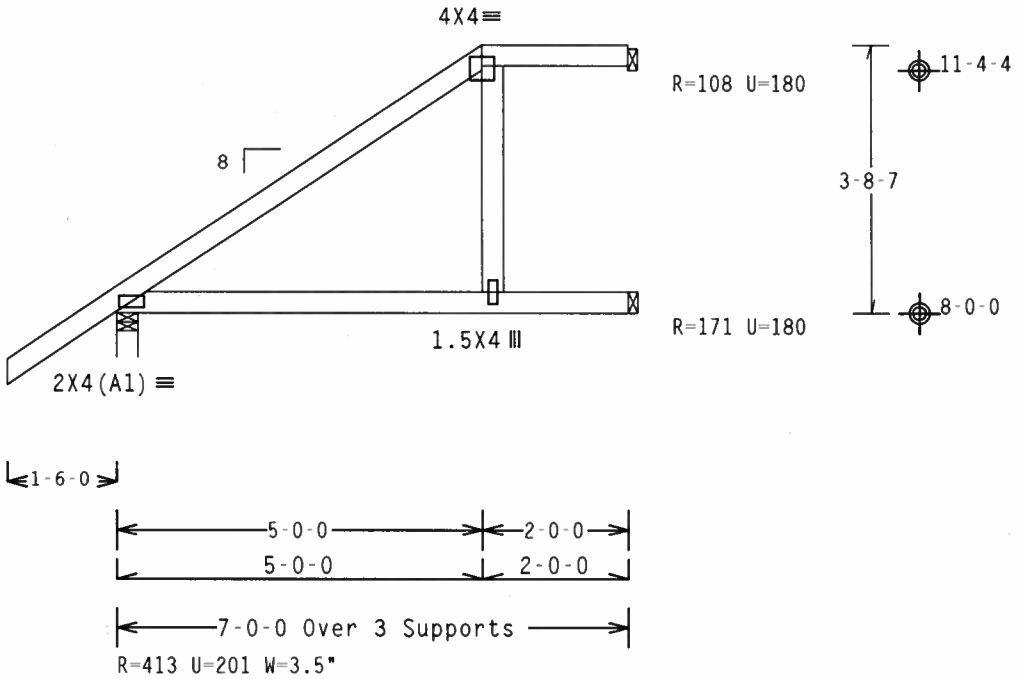
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

110 mph wind, 9.54 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF R487-- 43904
TC DL	10.0 PSF	DATE 11/29/05
BC DL	10.0 PSF	DRW HCUSR487 05333005
BC LL	0.0 PSF	HC-ENG DF/ADR *
TOT.LD.	40.0 PSF	SEQN- 42647
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR. SPEC #4 ROLLING M - J7A3)

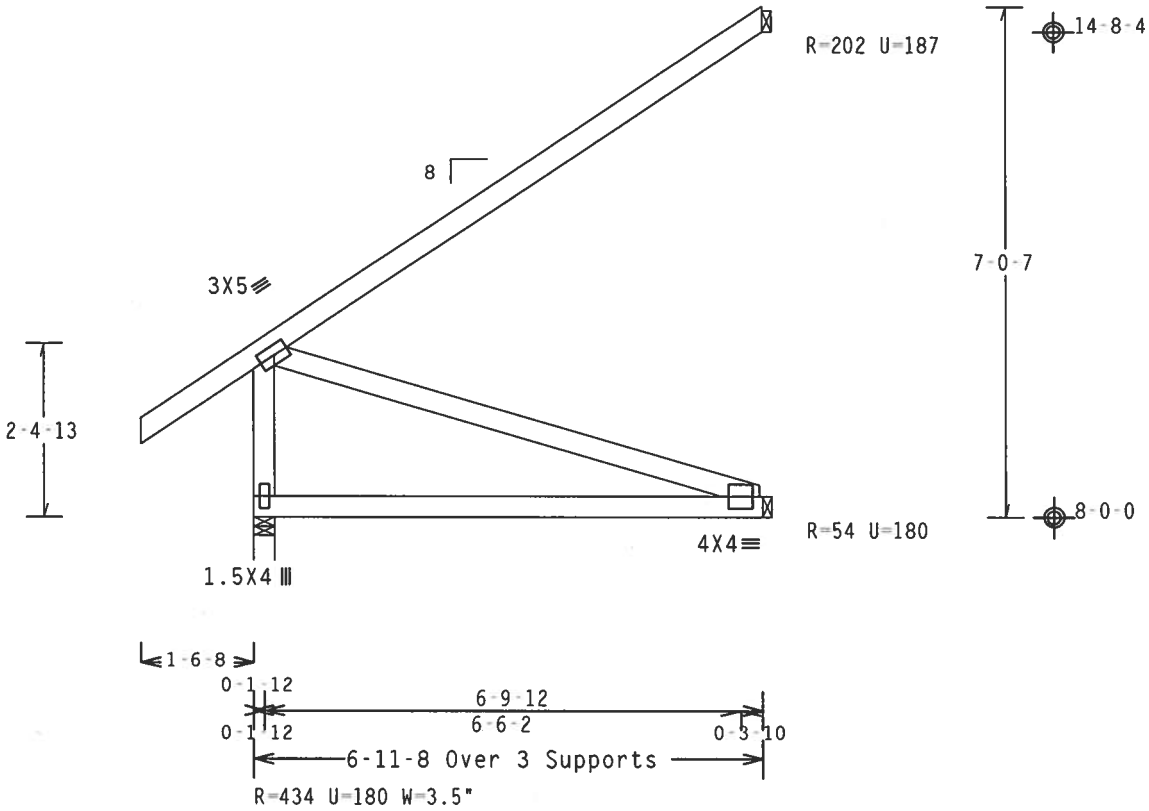
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

110 mph wind, 12.20 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:2 FL/-/4/-/-/R/- Scale =.375"/Ft.

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DENISE RUTLEDGE LICENSE No. 58766 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43905
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333037
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	43085
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR.-SPEC #4 ROLLING M - J5A)

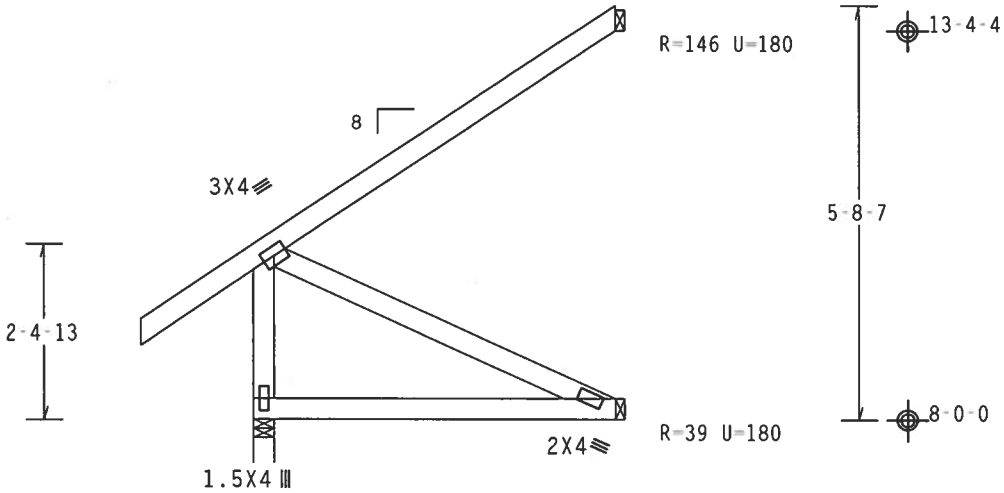
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

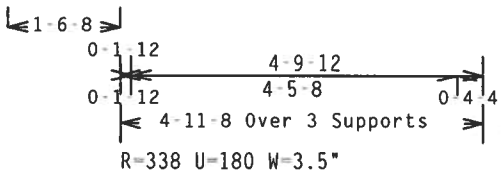
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

110 mph wind, 11.54 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE

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DENISE RUTLEDGE LICENSE NO. 58766 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 -05

TC LL	20.0 PSF	REF	R487-- 43906
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333018
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	43092
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR. SPEC #4 ROLLING M - J3A)

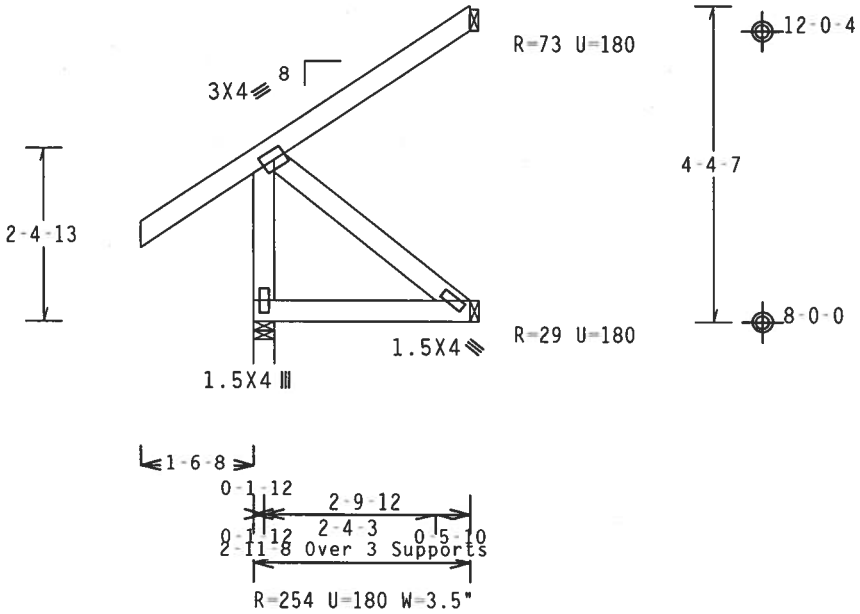
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

110 mph wind, 10.87 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.080[illegible] QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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DENISE RUTLEDGE LICENSE NO. 58762 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43907
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333024
BC LL	0.0 PSF		HC-ENG DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	43099
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

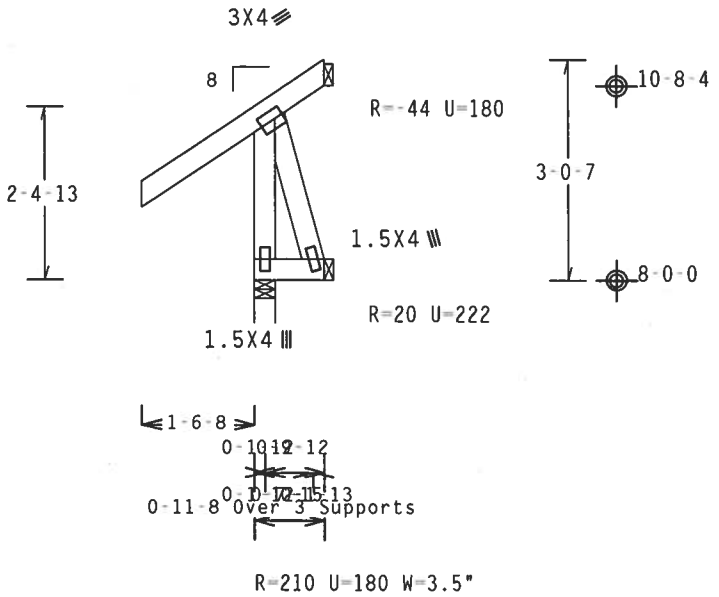
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

110 mph wind, 10.20 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.0805 [illegible] QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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DENISE RUTLEDGE LICENSE NO 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

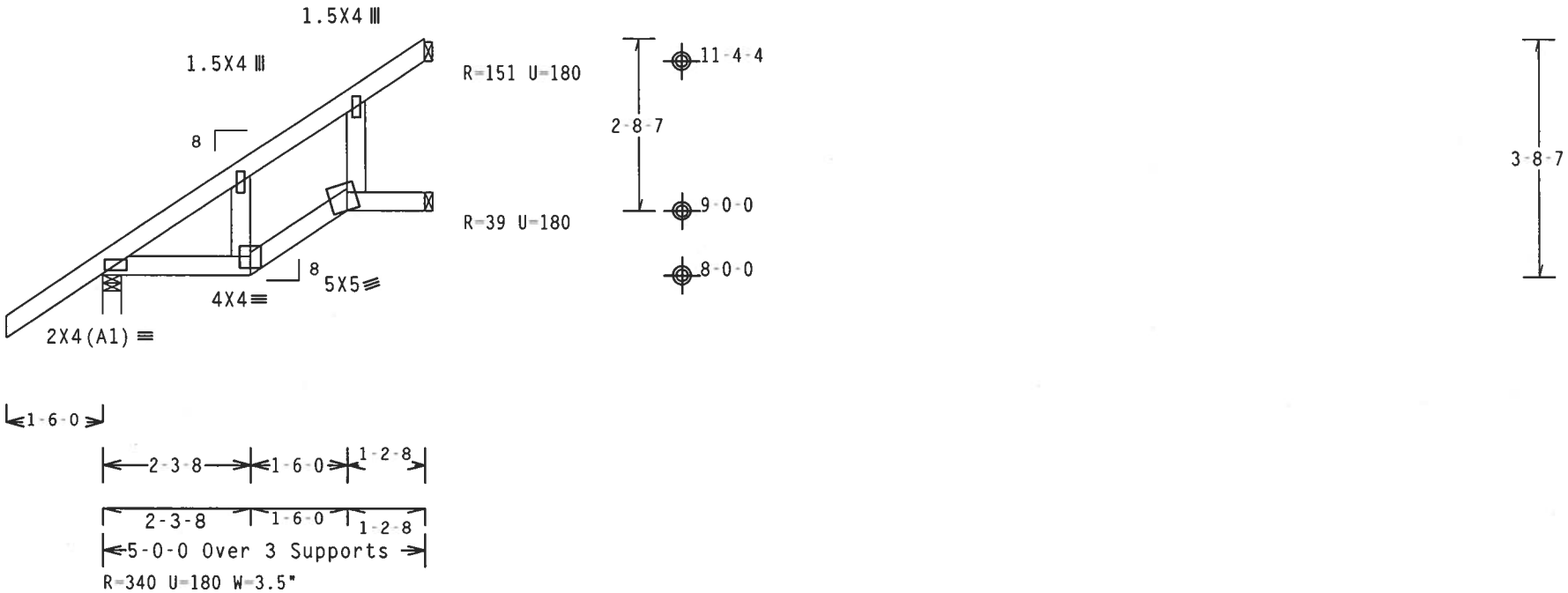
TC LL	20.0 PSF	REF R487-- 43908
TC DL	10.0 PSF	DATE 11/29/05
BC DL	10.0 PSF	DRW HCUSR487 05333028
BC LL	0.0 PSF	HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN- 43106
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SSL487_Z02

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

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

110 mph wind, 9.54 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave | Cq/RT=1.00(1.25)/10(0) 7.04.0805 | QTY:2 | FL/-/4/-/-/R/- | Scale =.375"/Ft.

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 BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN. MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43909
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333027
BC LL	0.0 PSF	HC-ENG	DF/ADR *
TOT.LD.	40.0 PSF	SEQN-	42726
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - SPARKS CONSTR.-SPEC #4 ROLLING M - J3B)

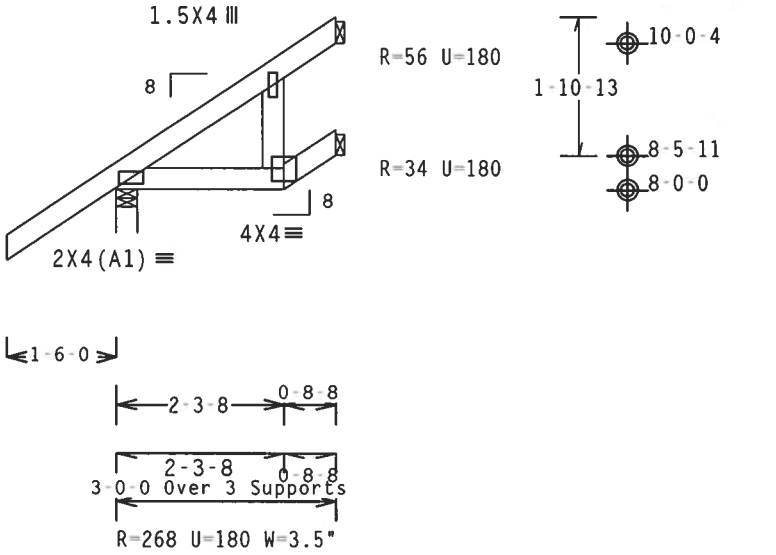
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

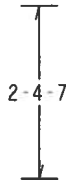
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 8.87 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Shim all supports to solid bearing.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.080 QTY:2 FL/-/4/-/-/R/- Scale =.375"/Ft.

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Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
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DENISE RUTLEDGE LICENSE No. 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

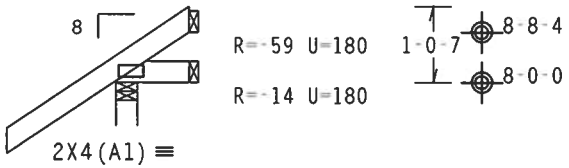
TC LL	20.0 PSF	REF R487-- 43910
TC DL	10.0 PSF	DATE 11/29/05
BC DL	10.0 PSF	DRW HCUSR487 05333029
BC LL	0.0 PSF	HC-ENG DF/ADR *
TOT.LD.	40.0 PSF	SEQN- 42720
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SSL487_Z02

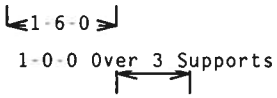
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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

110 mph wind, 8.20 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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





Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.080[illegible] QTY:2 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

DENISE RUTLEDGE LICENSE No 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43911
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333030
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42713
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - J2A)

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

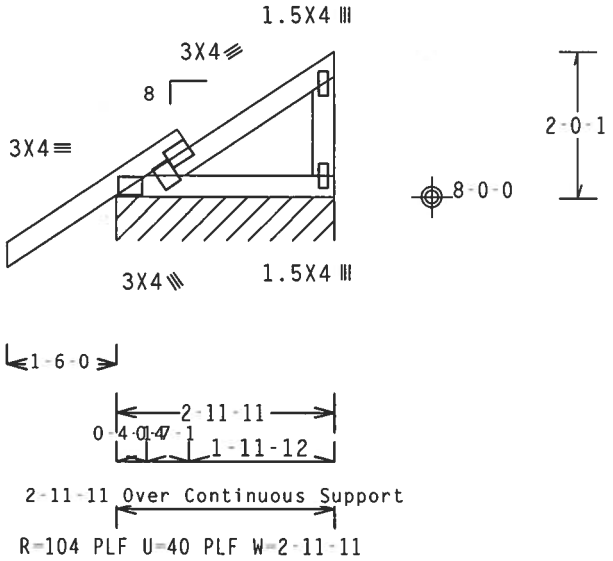
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

See DWGS A11015EC1103 & GBLLETIN1103 for more requirements.

110 mph wind, 8.69 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805.6 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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1950 Marley Drive
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FL Certificate of Authorization # 567

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DENISE RUTLEDGE LICENSE No. 58762 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF R487-- 43912
TC DL	10.0 PSF	DATE 11/29/05
BC DL	10.0 PSF	DRW HCUSR487 05333041
BC LL	0.0 PSF	HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN- 43165 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - - SPARKS CONSTR. SPEC #4 ROLLING M - K1 GL)

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

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

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

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

TC	From	64 PLF	at	-1.50	to	64 PLF at 4.31
TC	From	64 PLF	at	4.31	to	64 PLF at 5.48
TC	From	115 PLF	at	5.48	to	115 PLF at 10.96
TC	From	85 PLF	at	10.96	to	115 PLF at 10.96
TC	From	85 PLF	at	10.96	to	85 PLF at 20.42
BC	From	5 PLF	at	-1.50	to	5 PLF at 0.00
BC	From	20 PLF	at	0.00	to	20 PLF at 18.92
BC	From	5 PLF	at	18.92	to	20 PLF at 18.92
BC	From	5 PLF	at	18.92	to	5 PLF at 20.42

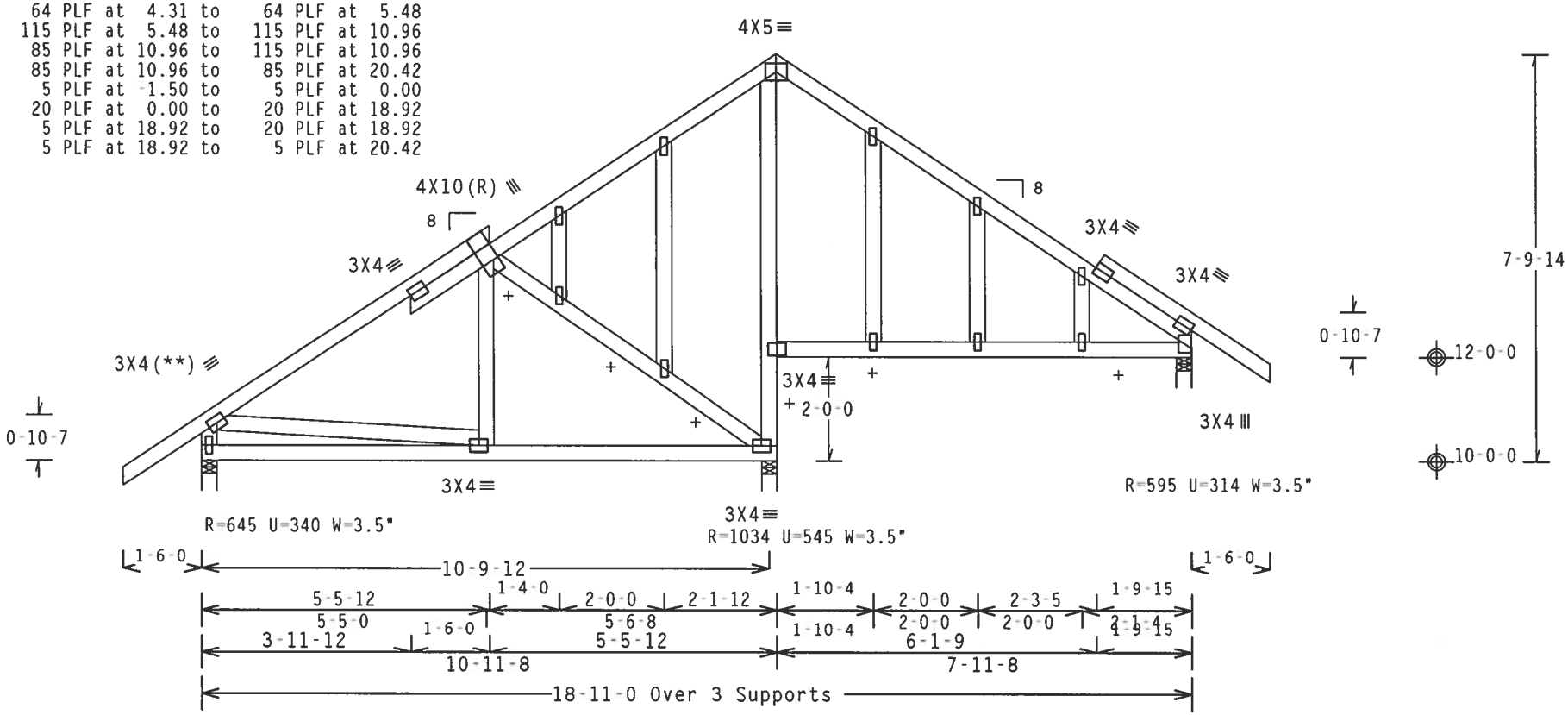
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 13.85 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

Calculated horizontal deflection is 0.11" due to live load and 0.17" due to dead load.

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

Gable end supports 8" max rake overhang.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE
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FL Certificate of Authorization # 567

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

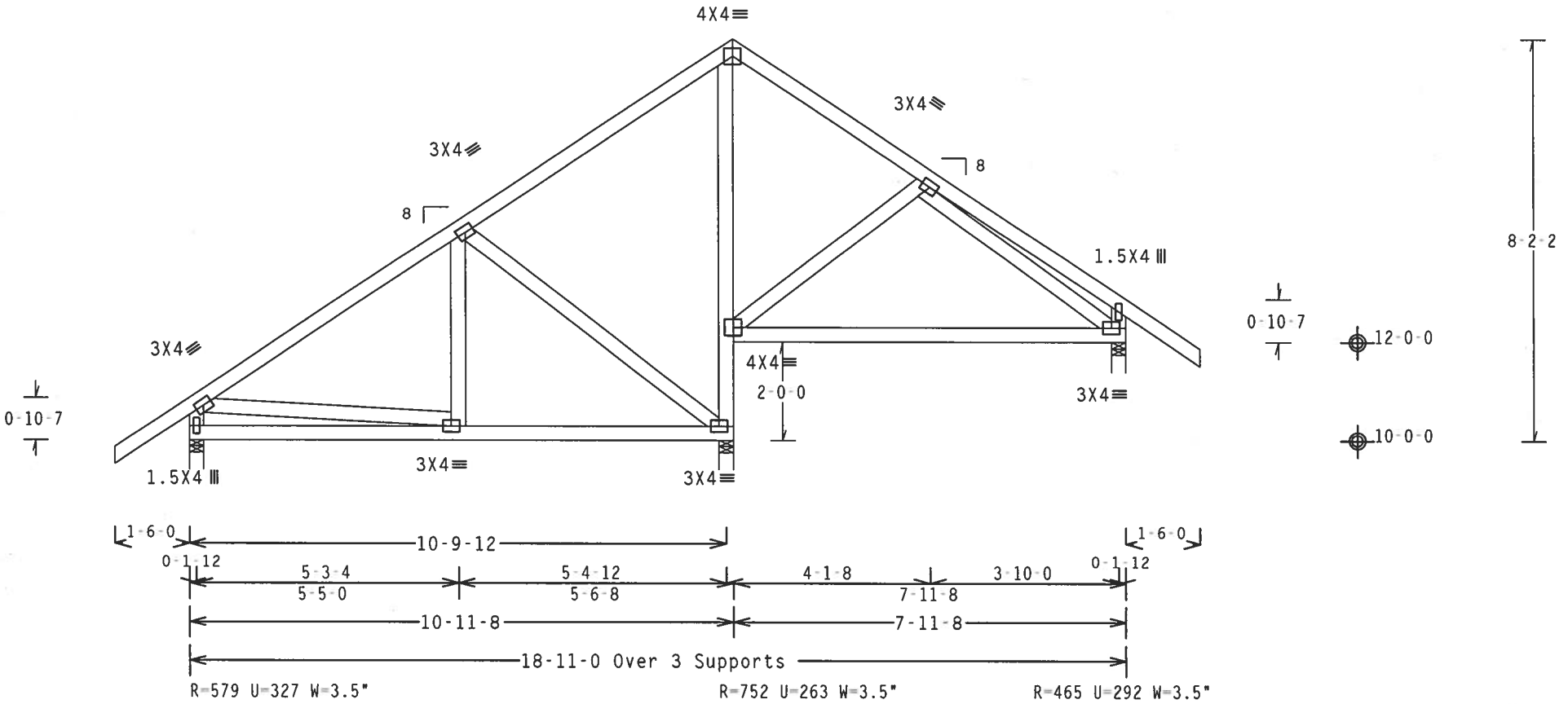
TC LL	20.0 PSF	REF	R487-- 43913
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333038
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42594 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - SPARKS CONSTR. SPEC #4 ROLLING M - K2)

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

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

110 mph wind, 14.02 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:2 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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DENISE RUTLEDGE LICENSE No. 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43914
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333039
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42575
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS -- SPARKS CONSTR.-SPEC #4 ROLLING M - K36)

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS :B2 2x4 SP #2 Dense:
Webs 2x4 SP #3
:Lt Wedge 2x6 SP #2:

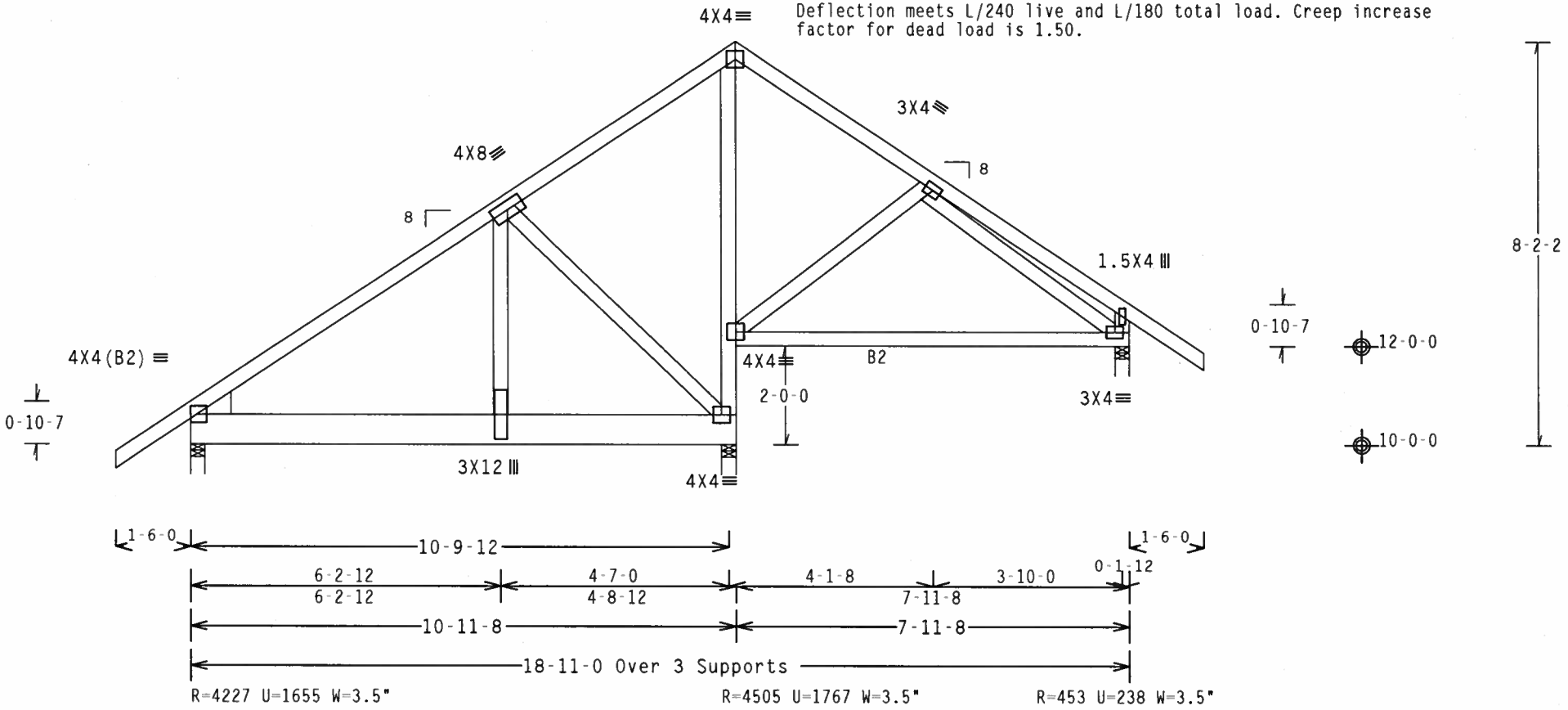
SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.50 to 64 PLF at 20.42
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 18.92
BC - From 5 PLF at 18.92 to 5 PLF at 20.42
BC - 1232 LB Conc. Load at 0.56, 2.56, 4.56, 6.56, 8.56
10.56

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (10d_Common_(0.148"x3",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 4.75" 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 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cg/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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DENISE RUTLEDGE LICENSE No. 58732 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF R487-- 43915
TC DL	10.0 PSF	DATE 11/29/05
BC DL	10.0 PSF	DRW HCUSR487 05333040
BC LL	0.0 PSF	HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN- 43158
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1SSL487_Z02

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

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 85 PLF at -1.50 to 85 PLF at 5.00
TC - From 85 PLF at 5.00 to 85 PLF at 11.50
BC - From 5 PLF at -1.50 to 5 PLF at 0.00
BC - From 21 PLF at 0.00 to 21 PLF at 5.00
BC - From 21 PLF at 5.00 to 21 PLF at 10.00

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

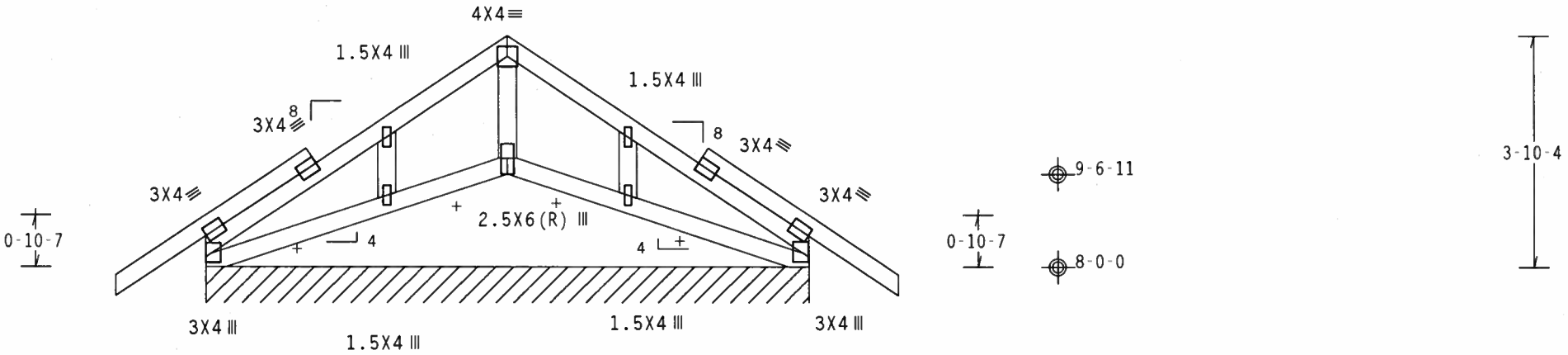
110 mph wind, 9.86 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

See DWGS A11015EC1103 & GBLLETIN0405 for more requirements.

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

Shim all supports to solid bearing.

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



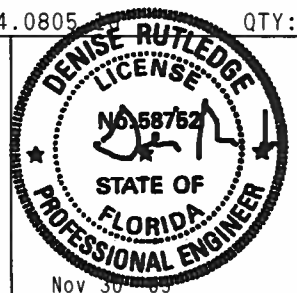
R=136 PLF U=19 PLF W=10-0-0

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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 BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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



Nov 30 '05

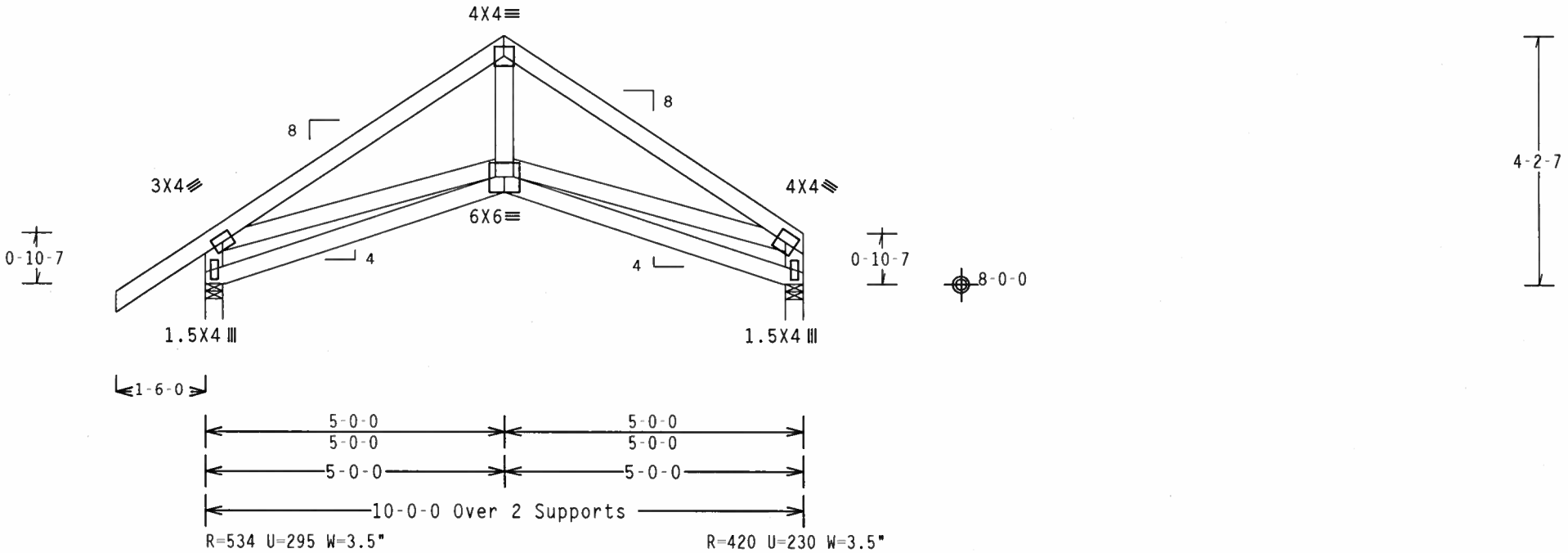
TC LL	20.0 PSF	REF	R487-- 43916
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333006
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42543 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF-	1SSL487_Z02

(J-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS - - SPARKS CONSTR. SPEC #4 ROLLING M - - R2)

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

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

110 mph wind, 10.04 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:4 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE

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

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DENISE RUTLEDGE LICENSE No. 58152 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nov 30 '05

TC LL	20.0 PSF	REF R487-- 43917
TC DL	10.0 PSF	DATE 11/29/05
BC DL	10.0 PSF	DRW HCUSR487 05333009
BC LL	0.0 PSF	HC-ENG DF/ADR *
TOT.LD.	40.0 PSF	SEQN- 42533
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1SSL487_Z02

(5-514 SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - SPARKS CONSTR.-SPEC #4 ROLLING M - R3)

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

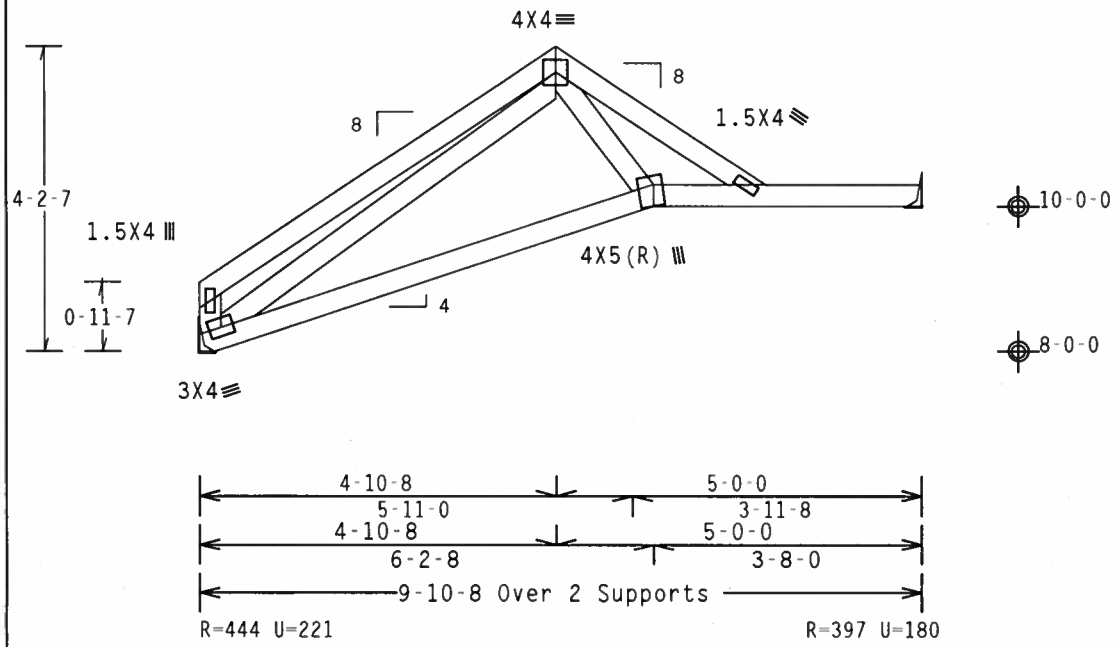
110 mph wind, 10.58 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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

THIS TRUSS IS DESIGNED TO SUPPORT 24" OC LOADING ONLY, AND IS NOT DESIGNED TO SUPPORT ANY ADDITIONAL LOAD.

2 COMPLETE TRUSSES REQUIRED

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.080 [illegible]6 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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DENISE RUTLEDGE LICENSE No. 58782 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43918
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333043
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42520
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514-SPARKS CONSTR.-SPEC #4 ROLLING MEADOWS - - SPARKS CONSTR.-SPEC #4 ROLLING M - R4)

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

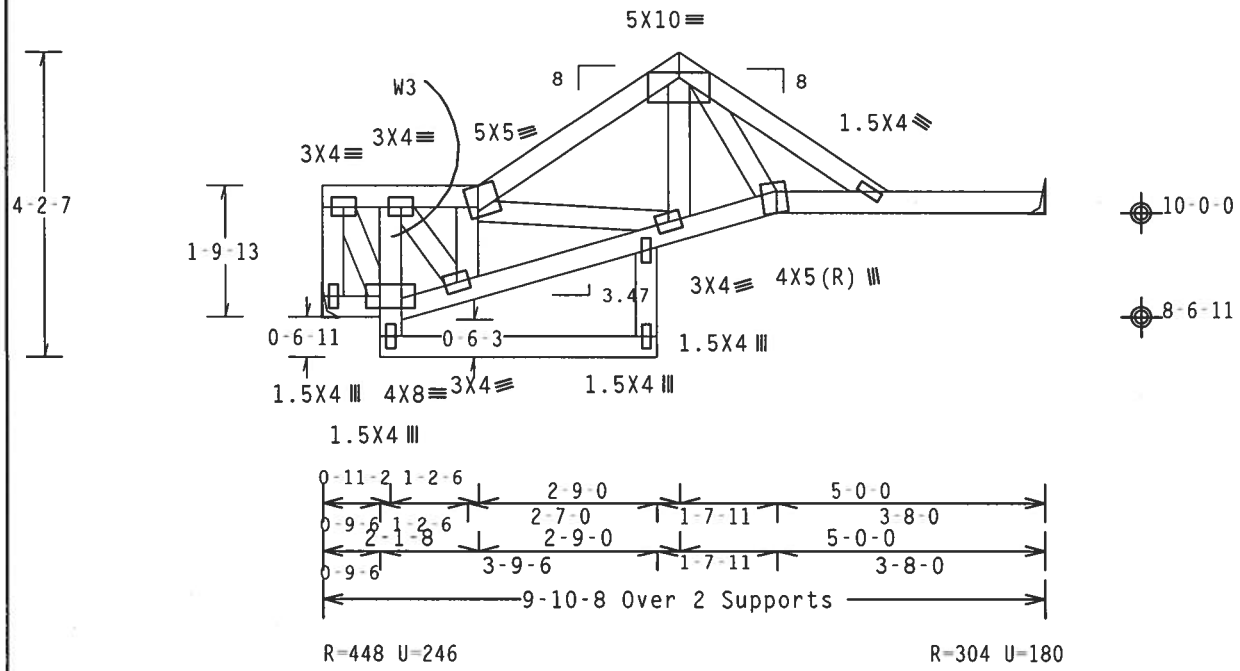
Max JT VERT DEFL: LL: 0.15" DL: 0.20" recommended camber 3/8"

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

LATERALLY BRACE BOTTOM CHORD ABOVE FILLER AT 24" O.C, INCLUDING A LATERAL BRACE AT CHORD ENDS.

110 mph wind, 11.25 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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DENISE RUTLEDGE LICENSE No.58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 05

TC LL	20.0 PSF	REF	R487-- 43919
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333031
BC LL	0.0 PSF	HC-ENG	DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42490
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

(5-514 SPARKS CONSTR. SPEC #4 ROLLING MEADOWS SPARKS CONSTR. SPEC #4 ROLLING M - R5)

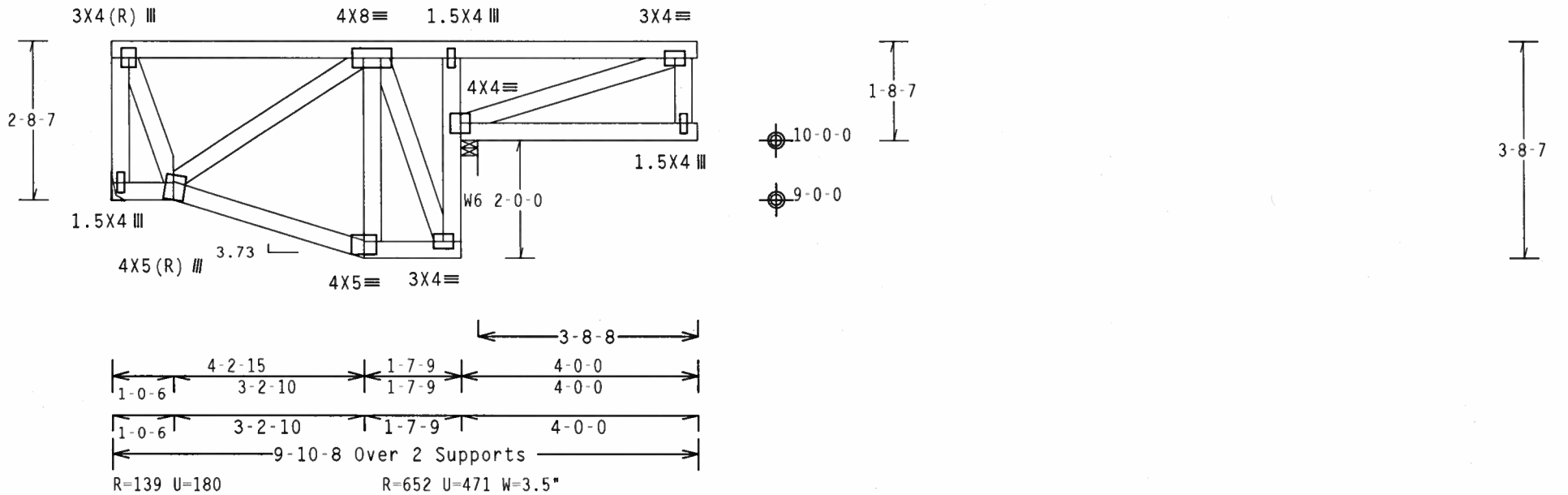
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W6 2x4 SP #2 Dense:

Left end vertical not exposed to wind pressure.

Provide for complete drainage of roof.

110 mph wind, 11.70 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=0.0 psf, wind BC DL=0.0 psf.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.04.0805 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

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

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DENISE RUTLEDGE LICENSE NO. 58792 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 30 '05

TC LL	20.0 PSF	REF	R487-- 43920
TC DL	10.0 PSF	DATE	11/29/05
BC DL	10.0 PSF	DRW	HCUSR487 05333022
BC LL	0.0 PSF		HC-ENG DF/ADR
TOT.LD.	40.0 PSF	SEQN-	42761
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1SSL487_Z02

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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

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

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

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

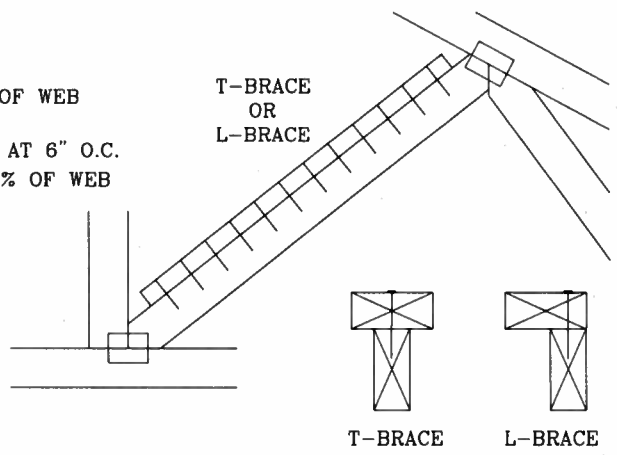
(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE

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

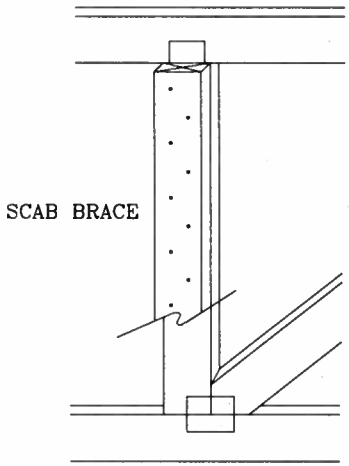
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

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

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



THIS DRAWING REPLACES DRAWING 579,640

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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DENISE RUTLEDGE LICENSE No. 58752 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 30 05

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

ASCE 7-98: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

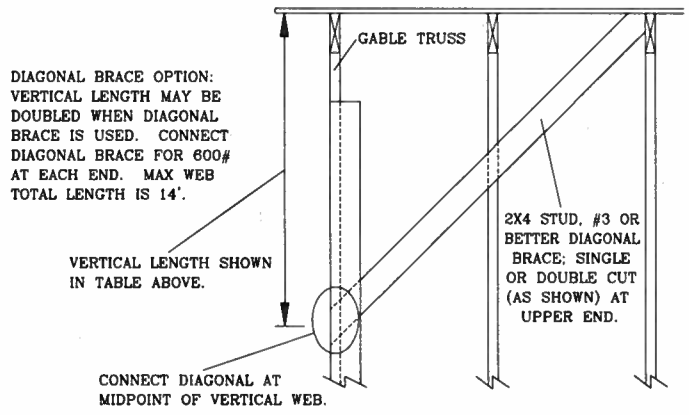
SOUTHERN PINE
#3
STUD
STANDARD

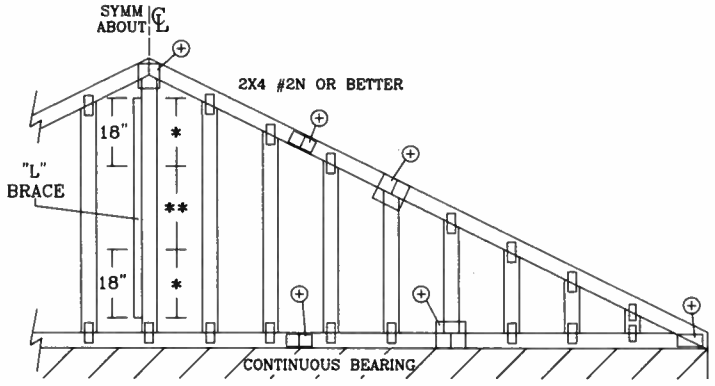
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

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

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

GABLE VERTICAL PLATE SIZES

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

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

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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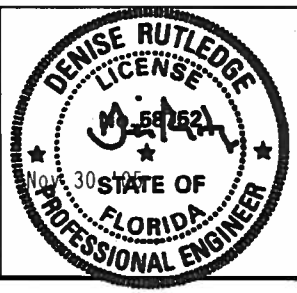
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS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

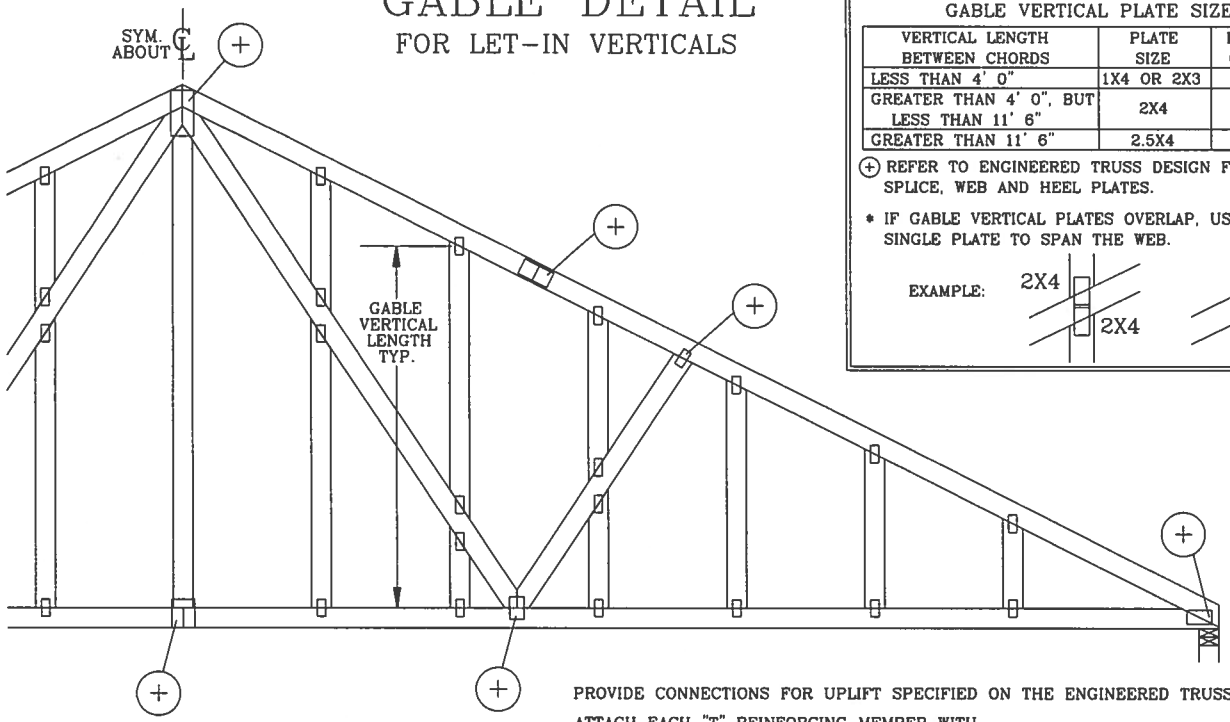


MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-98-GAB11015
DATE	11/26/03
DRWG	A11015EC1103
-ENG	

GABLE DETAIL
FOR LET-IN VERTICALS

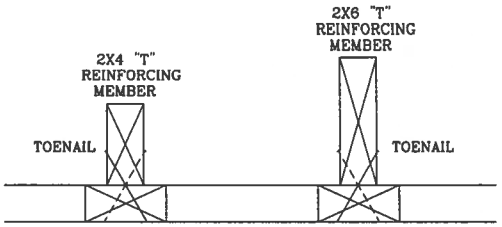


GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

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

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

EXAMPLE:



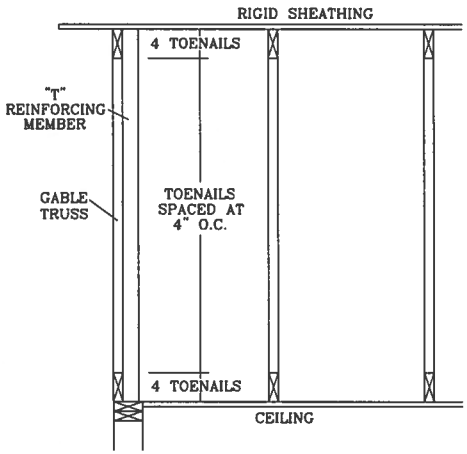
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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

WEB LENGTH INCREASE W/ "T" BRACE

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

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



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

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

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
SBCCI GABLE DETAIL DRAWINGS
S11015EN1103, S10015EN1103, S09015EN1103, S08015EN1103, S07015EN1103
S11030EN1103, S10030EN1103, S09030EN1103, S08030EN1103, S07030EN1103

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

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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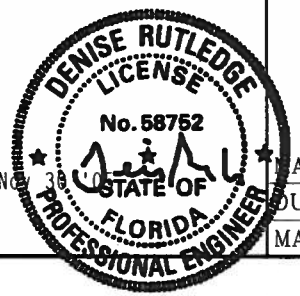
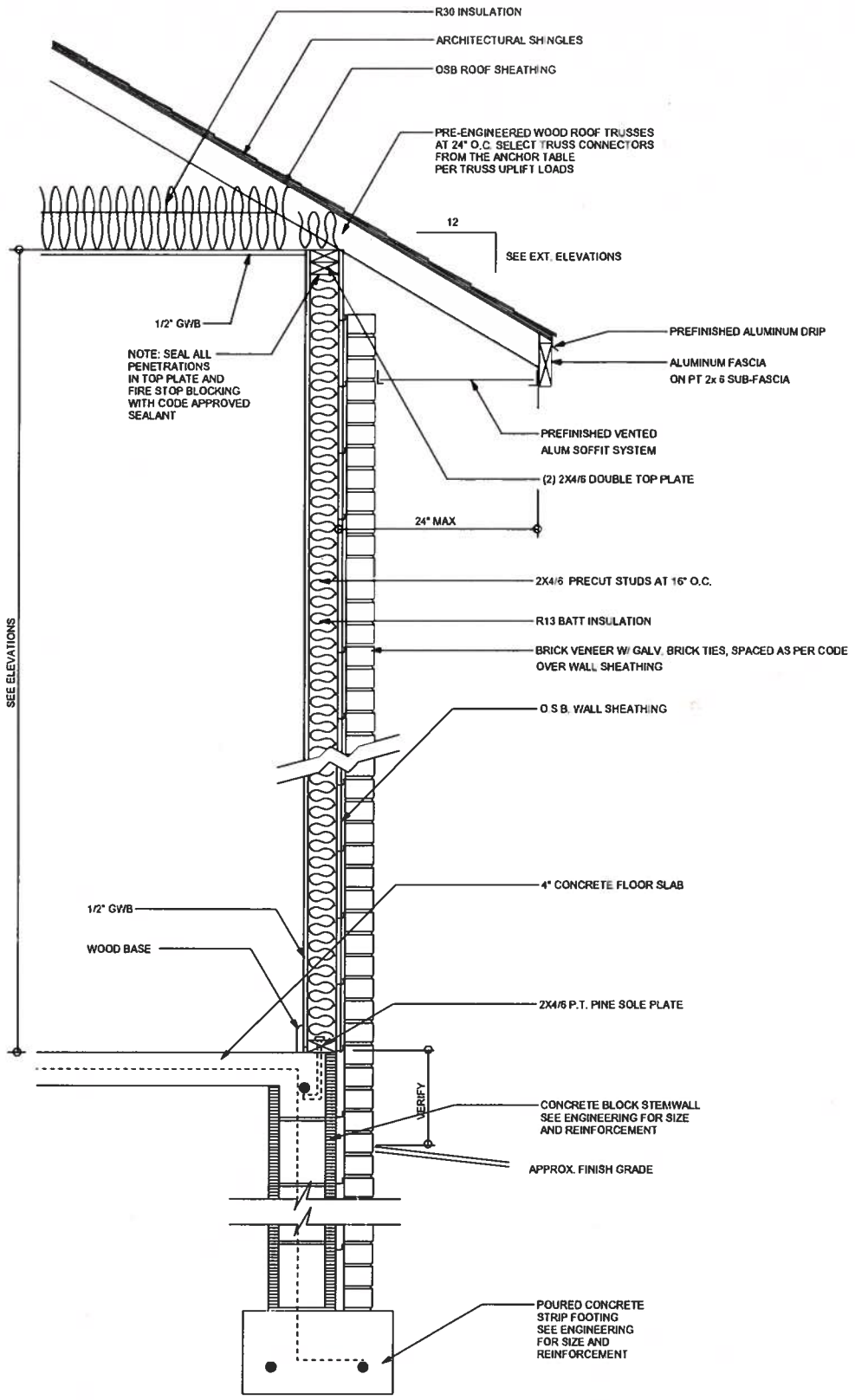


NOV 30 '04

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

REF	LET-IN VERT
DATE	01/16/04
DRWG	GBLLETIN1103
-ENG	DLJ/KAR

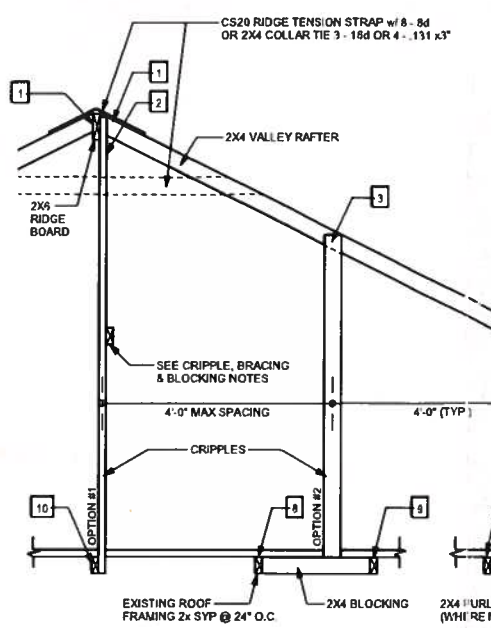


TYPICAL DESIGN WALL SECTION
NON - STRUCTURAL DATA

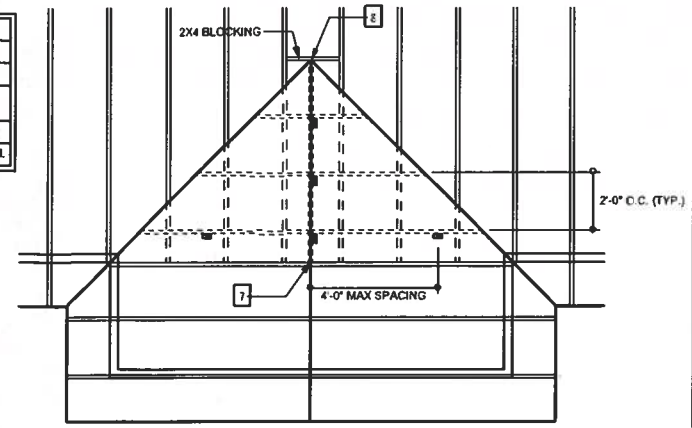
SCALE: 1" = 1'- 0"

LUMBER SIZE & GRADE MINUMUM REQUIREMENTS

RIDGE BOARD	2X6 SYP #2
RAFTER SPANS 20'-0" OR LESS	2X4 SYP #2
PURLINS / LATERAL BRACING	2X4 SPF #2
SLEEPERS	2X (WIDTH OF RAFTER SEAT CUT) SPF #3 OR 2 PARALLEL 2X4 SPF #3
CRIPPLES & BLOCKING	2X4 SPF #2 OR BETTER
TRUSS BELOW	SEE TRUSS DESIGN - SOUTHEREN PINE MATERIAL



SECTION CUT PARALLEL TO VALLEY RAFTER



VALLEY ROOF PLAN

VALLEY ROOF PLAN MEMBER LEGEND

- TRUSS
- TRUSS UNDER VALLEY FRAMING
- VALLEY RAFTER OR RIDGE
- CRIPPLE

CRIPPLES 4'-0" O.C. FOR 20 psf (TL) AND 10 psf (TD) (TYP. SHINGLE ROOF) MAX

CONNECTION REQUIREMENT NOTES

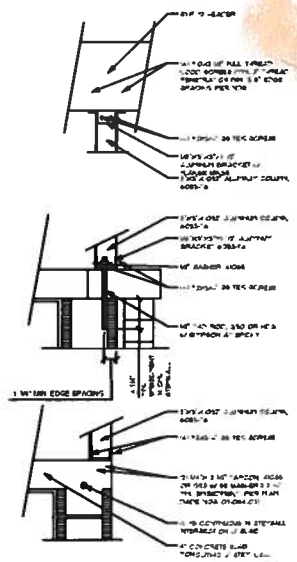
1	2X4 RAFTERS TO RIDGE	3 - 16d OR 6 - .131 x 3" TOE NAILS
2	CRIPPLE TO RIDGE	3 - 16d OR 6 - .131 x 3" FACE NAILS
3	CRIPPLE TO RAFTERS	3 - 16d OR 6 - .131 x 3" FACE NAILS
4	RAFTER TO SLEEPER OR BLOCKING	6 -16d OR 12 - .131 x 3" TOE NAILS
5	SLEEPER TO TRUSS	4 - 16d OR 8 - .131 x 3" FACE NAILS EACH TRUSS
6	RIDGE BOARD TO ROOF BLOCK	3 -16d OR 6 - .131 x 3" TOE NAILS
7	RIDGE BOARD TO TRUSS	3 -16d OR 6 - .131 x 3" TOE NAILS
8	PURLIN TO TRUSS (TYP.)	3 -16d OR 6 - .131 x 3" NAILS
9	PURLIN TO TRUSS (IF CRIPPLE IS ATTACHED TO PURLIN)	4 -16d OR 8 - .131 x 3" NAILS
9	TRUSS TO BLOCKING	3 -16d OR 6 - .131 x 3" END NAILS
10	CRIPPLE TO TRUSS	3 -16d OR 6 - .131 x 3" FACE NAILS
11	CRIPPLE TO PURLIN	3 -16d OR 6 - .131 x 3" FACE NAILS

GENERAL NOTES

MAXIMUM RAFTER SPANS
6'-0" FOR 2X4, 9'-0" FOR 2X6 SPF #2 OR SYP #2
MAXIMUM ROOF AREA PER SUPPORT
16ft2 IN ZONES 2 & 3 , 24ft2 IN ZONE 1. (EXAMPLE: 4'-0" O.C. X 4'-0" SPAN = 16ft2 OR 2'-0" X 8'-0" SPAN = 16ft2)
PURLINS REQUIRED 2'-0" O.C. IF EXISTING SHEATHING IS REMOVED.
PURLINS SHOULD OVERLAP SHEATHING ONE TRUSS SPACING MINIMUM.
IN CASES THAT THIS IS IMPRACTICAL, OVERLAP SHEATHING A MINIMUM OF 6", AND NAIL UPWARDS THROUGH SHEATHING INTO PURLIN WITH A MINIMUM OF 8 - 8d COMMON WIRE NAILS.
THIS DRAWING APPLIES TO VALLEYS WITH THE FOLLOWING CONDITIONS:
-SPANS (DISTANCS BETWEEN HEELS) 40'-0" OR LESS
- MAXIMUM VALLEY HEIGHT: 14'-0" OR LESS
-MAXIMUM WIND SPEED: 120 MPH
- MAXIMUM MEAN ROOF HEIGHT: 30 FEET
- MAXIMUM TOTAL LOADING: 40 psf
- MEETS FBC 2001/ASCE 7-98 WIND REQUIREMENTS
- EXPOSURE CATEGORY "B", I = 1.0, Kzt = 1.0
- ENCLOSED BUILDING

CRIPPLE, BRACING, & BLOCKING NOTES

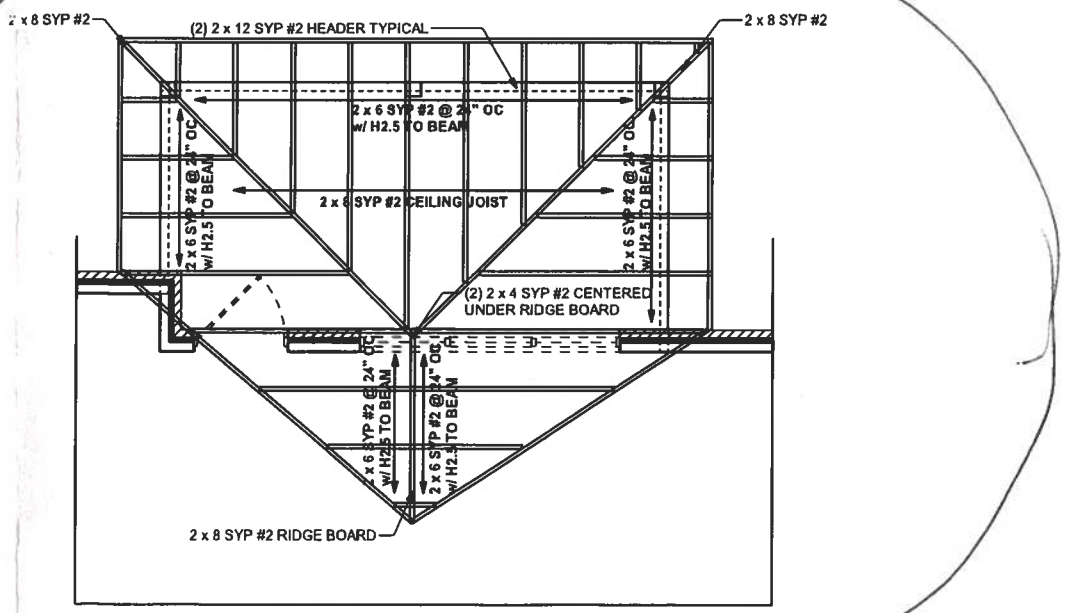
-2X4 CONTINUOUS LATERAL BRACE (CLB) MIN. IS REQUIRED FOR CRIPPLES 5'-0" TO 10'-0" LONG NAILED w/ 2 - 10d NAILS OR 2X4 "T" OR SCAB BRACE NAILD TO FLAT EDGE OF CRIPPLE WITH 8d NAILS @ 6" O.C. "T" OR SCAB MUST BE 90% OF CRIPPLE LENGTH. CRIPPLES OVER 10'-0" LONG REQUIRE TWO CLB's OR BOTH FACES w/ "T" OR SCAB. USE STRESS GRADED LUMBER & BOX OR COMMON NAILS.
- NARROW EDGE OF CRIPPLE CAN FACE RIDGE OR RAFTER, AS LONG AS THE PROPER NUMBER OF NAILS ARE INSTALLED INTO RIDGE BOARD
- INSTALL BLOCKING UNDER RAFTER IF SLEEPERS ARE NOT USED
- INSTALL BLOCKING UNDER CRIPPLES IF CRIPPLES FALL BETWEEN LOWER TRUSS TOP CHORDS AND LATERAL BRACING IS NOT USED
- APPLY ALL NAILING IN ACCORDANCE TO NDS-1997 SECTION 12. NAILS ARE COMMON WIRE NAILS UNLESS NOTED OTHERWISE.



LW44 - ALUMINUM PORCH POST & HEADER ANCHORS
SCALE: N.T.S

RETROFIT ROOF OVER FRAMING & BRACING DETAIL

SCALE: N.T.S



COVERED PORCH ROOF FRAMING PLAN

2nd

WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

DIMENSIONS:
Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution.
Do not proceed without clarification

CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 2004 Florida Residential Code, to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

MARK DISOSWAY
PE. 53915
16 MAY 06
SEAL

SPARKS CONSTRUCTION

Spec House Lot #4
Rolling Meadows S/D

ADDRESS:
Spec House Lot #4
Rolling Meadows S/D
Columbia County Florida

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32056
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871
windloadengineer@bellsouth.net

PRINTED DATE: May 16, 2006

DRAWN BY:	CHECKED BY:
Ben Sparks	

FINALS DATE: 13 / MAR/ 06

JOB NUMBER: 511235

DRAWING NUMBER

OF 6 SHEETS