DATE 02/16/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000024143

APPLICANT MELANIE RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER THEODORE & CARLA WHITCOMB PHONE

ADDRESS 167 SW MOSSY OAK WAY LAKE CITY FL 32024

CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 90W, TL ON MAYO ROAD, TL ON MOSSY OAK WAY, 1ST ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 129200.00

HEATED FLOOR AREA 2584.00 TOTAL AREA 3665.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 10/12 FLOOR SLAB

LAND USE & ZONING PRRD MAX. HEIGHT 23

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

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

PARCEL ID 25-3S-15-00220-101 SUBDIVISION HUNTERS RIDGE

LOT 1 BLOCK PHASE UNIT TOTAL ACRES 3.92

000000973 CBC059323 Melanie Rode

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

CULVERT 06-0022-N BK JH Y

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

COMMENTS: ONE FOOT ABOVE THE ROAD,

Check # or Cash 2286

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

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

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

Permanent power _____ date/app. by | C.O. Final _____ date/app. by | Culvert _____ date/app. by

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

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

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

BUILDING PERMIT FEE $ 650.00 CERTIFICATION FEE $ 18.32 SURCHARGE FEE $ 18.32

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** 786.64

INSPECTORS OFFICE Ted CLERKS OFFICE CH

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

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

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.

Whitcomb 18664 CK# 2286

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0601-64 Date Received 1-25-06 By CT Permit # 973/24143

Application Approved by - Zoning Official BLK Date 26.01.06 Plans Examiner OKYTH Date 2-15-06

Flood Zone A & X per PLAT Development Permit N/A Zoning PRRD Land Use Plan Map Category A-3

Comments NOC

Applicants Name Linda Roder Phone 752-2281

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

Owners Name Theodore & Carla Whitcomb Phone

911 Address 167 S.W. Mossy Oak Way Lake City FL 32024

Contractors Name Isaac Construction - Isaac Bratkovich Phone 719-7143

Address 1005 S.W. Walter Ave. Lake City FL 32024

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers / Nick Geisler

Mortgage Lenders Name & Address

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

Property ID Number 25-3S-15-00220-101 Estimated Cost of Construction 185,000

Subdivision Name Hunters Ridge Lot 1 Block ____ Unit ____ Phase ____

Driving Directions 90 W, L on Mayo Rd, L on Mossy Oak Way, 1st on left.

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 3.92 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 56'-5" Side 210'-4" Side 156'-11" Rear 294'-10"

Total Building Height 23' Number of Stories 2 Heated Floor Area 2584 Roof Pitch 10'-12"

Porches 351 GARAGE 730 TOTAL 3665

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.

Owner Builder or Agent (Including Contractor) Contractor Signature Isaac Bratkovich

STATE OF FLORIDA
COUNTY OF COLUMBIA

Barbara C. Webster
Commission # DD329370
Expires July 2, 2008
Bonded Troy Fain - Insurance, Inc. 800-385-7019

Contractors License Number CBC 059323

Competency Card Number

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 20 day of DEC 2005.

Personally known X or Produced Identification ____

Notary Signature Barbara C Webster

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	Isaac Construction - Whitcomb	Builder:	Isaac Construction, Inc
Address:	Lot: , Sub: Hunters Ridge, Plat:	Permitting Office:	Columbia
City, State:	, FL 32026-	Permit Number:	24143
Owner:	Whitcomb Residence	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 49.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.50
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	2121 ft²	13. Heating systems	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 49.0 kBtu/hr
a. U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble Default) 365.3 ft²		HSPF: 7.00
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 365.3 ft²	b. N/A	
8. Floor types		c. N/A	
a. Slab-On-Grade Edge Insulation	R=0.0, 238.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 50.0 gallons
c. N/A			EF: 0.90
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=19.0, 1679.7 ft²	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
b. Frame, Wood, Adjacent	R=13.0, 180.0 ft²	15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 2250.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft		
b. N/A			

Glass/Floor Area: 0.17 Total as-built points: 29779 Total base points: 30371 **PASS**

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

PREPARED BY: Will Myers

DATE: 12-14-05

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

OWNER/AGENT: Linda Roden

DATE: 12-17-05

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: , Sub: Hunters Ridge, Plat: , , FL, 32025-** 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	2121.0	20.04	7650.9	Double, Clear	W	9.5	10.0	30.0	38.52	0.54	626.8
				Double, Clear	W	9.5	10.0	80.0	38.52	0.54	1671.5
				Double, Clear	S	11.5	10.0	15.0	35.87	0.50	268.5
				Double, Clear	W	1.5	10.0	45.0	38.52	0.98	1697.1
				Double, Clear	N	1.5	10.0	15.0	19.20	0.98	282.8
				Double, Clear	W	1.5	9.0	45.0	38.52	0.97	1682.2
				Double, Clear	N	1.5	9.0	20.0	19.20	0.98	374.7
				Double, Clear	N	1.5	9.0	16.0	19.20	0.98	299.7
				Double, Clear	S	1.5	9.0	9.0	35.87	0.94	304.8
				Double, Clear	S	1.5	9.0	15.0	35.87	0.94	507.9
				Double, Clear	E	7.5	10.0	30.0	42.06	0.59	748.3
				Double, Clear	E	7.5	10.0	13.3	42.06	0.59	331.7
				Double, Clear	E	1.5	9.0	28.0	42.06	0.97	1142.1
				Double, Clear	S	1.5	9.0	4.0	35.87	0.94	135.5
				As-Built Total:				365.3			10073.6

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	180.0	0.70	126.0	Frame, Wood, Exterior	19.0	1679.7	0.90	1511.7
Exterior	1679.7	1.70	2855.5	Frame, Wood, Adjacent	13.0	180.0	0.60	108.0
Base Total:	1859.7		2981.5	**As-Built Total:**		1859.7		1619.7

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	20.0	4.10	82.0
Exterior	20.0	4.10	82.0	Adjacent Insulated	20.0	1.60	32.0
Base Total:	40.0		114.0	**As-Built Total:**	40.0		114.0

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	2121.0	1.73	3669.3	Under Attic	30.0	2250.0	1.73 X 1.00	3892.5
Base Total:	2121.0		3669.3	**As-Built Total:**		2250.0		3892.5

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	238.0(p)	-37.0	-8806.0	Slab-On-Grade Edge Insulation	0.0	238.0(p	-41.20	-9805.6
Raised	0.0	0.00	0.0					
Base Total:			-8806.0	**As-Built Total:**		238.0		-9805.6

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Hunters Ridge, Plat: , , FL, 32025-** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points				Area X	SPM	=	Points
	2121.0	10.21	21655.4				2121.0	10.21		21655.4
Summer Base Points: 27265.1				**Summer As-Built Points:**						**27549.5**
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
				(sys 1: Central Unit 49000 btuh ,SEER/EFF(11.5) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)						
				27550	1.00	(1.09 x 1.147 x 1.00)	0.297	0.950		9711.1
27265.1	**0.4266**		**11631.3**	**27549.5**	**1.00**	**1.250**	**0.297**	**0.950**		**9711.1**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Hunters Ridge, Plat: , , FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2121.0	12.74	4863.9	Double, Clear	W	9.5	10.0	30.0	20.73	1.16	722.2	
				Double, Clear	W	9.5	10.0	80.0	20.73	1.16	1925.8	
				Double, Clear	S	11.5	10.0	15.0	13.30	2.98	593.6	
				Double, Clear	W	1.5	10.0	45.0	20.73	1.01	938.1	
				Double, Clear	N	1.5	10.0	15.0	24.58	1.00	368.7	
				Double, Clear	W	1.5	9.0	45.0	20.73	1.01	940.1	
				Double, Clear	N	1.5	9.0	20.0	24.58	1.00	491.8	
				Double, Clear	N	1.5	9.0	16.0	24.58	1.00	393.4	
				Double, Clear	S	1.5	9.0	9.0	13.30	1.02	122.5	
				Double, Clear	S	1.5	9.0	15.0	13.30	1.02	204.1	
				Double, Clear	E	7.5	10.0	30.0	18.79	1.21	682.9	
				Double, Clear	E	7.5	10.0	13.3	18.79	1.21	302.8	
				Double, Clear	E	1.5	9.0	28.0	18.79	1.02	534.4	
				Double, Clear	S	1.5	9.0	4.0	13.30	1.02	54.4	
				As-Built Total:				365.3			8274.9	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	180.0	3.60	648.0	Frame, Wood, Exterior			19.0	1679.7	2.20		3695.3	
Exterior	1679.7	3.70	6214.9	Frame, Wood, Adjacent			13.0	180.0	3.30		594.0	
Base Total:	1859.7		6862.9	**As-Built Total:**				1859.7			4289.3	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	20.0	8.00	160.0	Exterior Insulated				20.0	8.40		168.0	
Exterior	20.0	8.40	168.0	Adjacent Insulated				20.0	8.00		160.0	
Base Total:	40.0		328.0	**As-Built Total:**				40.0			328.0	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	2121.0	2.05	4348.0	Under Attic			30.0	2250.0	2.05 X	1.00	4612.5	
Base Total:	2121.0		4348.0	**As-Built Total:**				2250.0			4612.5	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	238.0(p)	8.9	2118.2	Slab-On-Grade Edge Insulation			0.0	238.0(p	18.80		4474.4	
Raised	0.0	0.00	0.0									
Base Total:			2118.2	**As-Built Total:**				238.0			4474.4	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Hunters Ridge, Plat: , , FL, 32025- PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM	= Points		Area X	WPM	= Points			
	2121.0	-0.59	-1251.4		2121.0	-0.59	-1251.4			
Winter Base Points:			17269.6	Winter As-Built Points:						20727.8
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 49000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0						
17269.6		0.6274	10835.0	20727.8		1.00	1.250	0.487	0.950	11987.4

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Hunters Ridge, Plat: , , FL, 32025-** 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	50.0	0.90	3	1.00	2693.56	1.00	8080.7	
				As-Built Total:						8080.7	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
11631	**10835**	**7905**	**30371**	**9711**	**11987**	**8081**	**29779**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Hunters Ridge, Plat: , , FL, 32025-** 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 cir 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* = 83.5

The higher the score, the more efficient the home.

Whitcomb Residence, Lot: , Sub: Hunters Ridge, Plat: , , FL, 32025-

1.	New construction or existing	New	__
2.	Single family or multi-family	Single family	__
3.	Number of units, if multi-family	1	__
4.	Number of Bedrooms	3	__
5.	Is this a worst case?	No	__
6.	Conditioned floor area (ft²)	2121 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) 365.3 ft²	__
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 365.3 ft²	__
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 238.0(p) ft	__
b.	N/A		__
c.	N/A		__
9.	Wall types		
a.	Frame, Wood, Exterior	R=19.0, 1679.7 ft²	__
b.	Frame, Wood, Adjacent	R=13.0, 180.0 ft²	__
c.	N/A		__
d.	N/A		__
e.	N/A		__
10.	Ceiling types		
a.	Under Attic	R=30.0, 2250.0 ft²	__
b.	N/A		__
c.	N/A		__
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft	__
b.	N/A		__

12.	Cooling systems		
a.	Central Unit	Cap: 49.0 kBtu/hr	__
		SEER: 11.50	__
b.	N/A		__
			__
c.	N/A		__
			__
13.	Heating systems		
a.	Electric Heat Pump	Cap: 49.0 kBtu/hr	__
		HSPF: 7.00	__
b.	N/A		__
			__
c.	N/A		__
			__
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 gallons	__
		EF: 0.90	__
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)	PT,	__

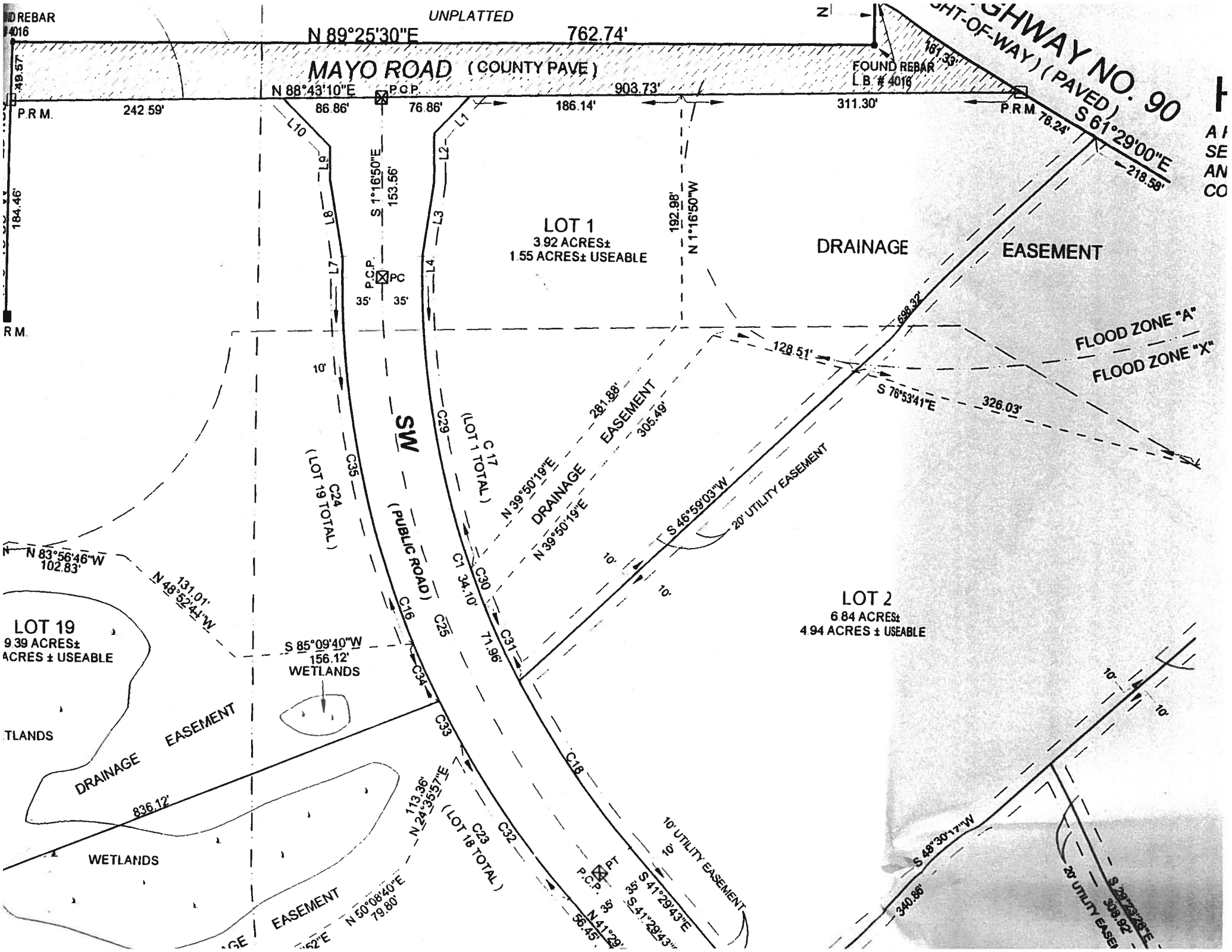
I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant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

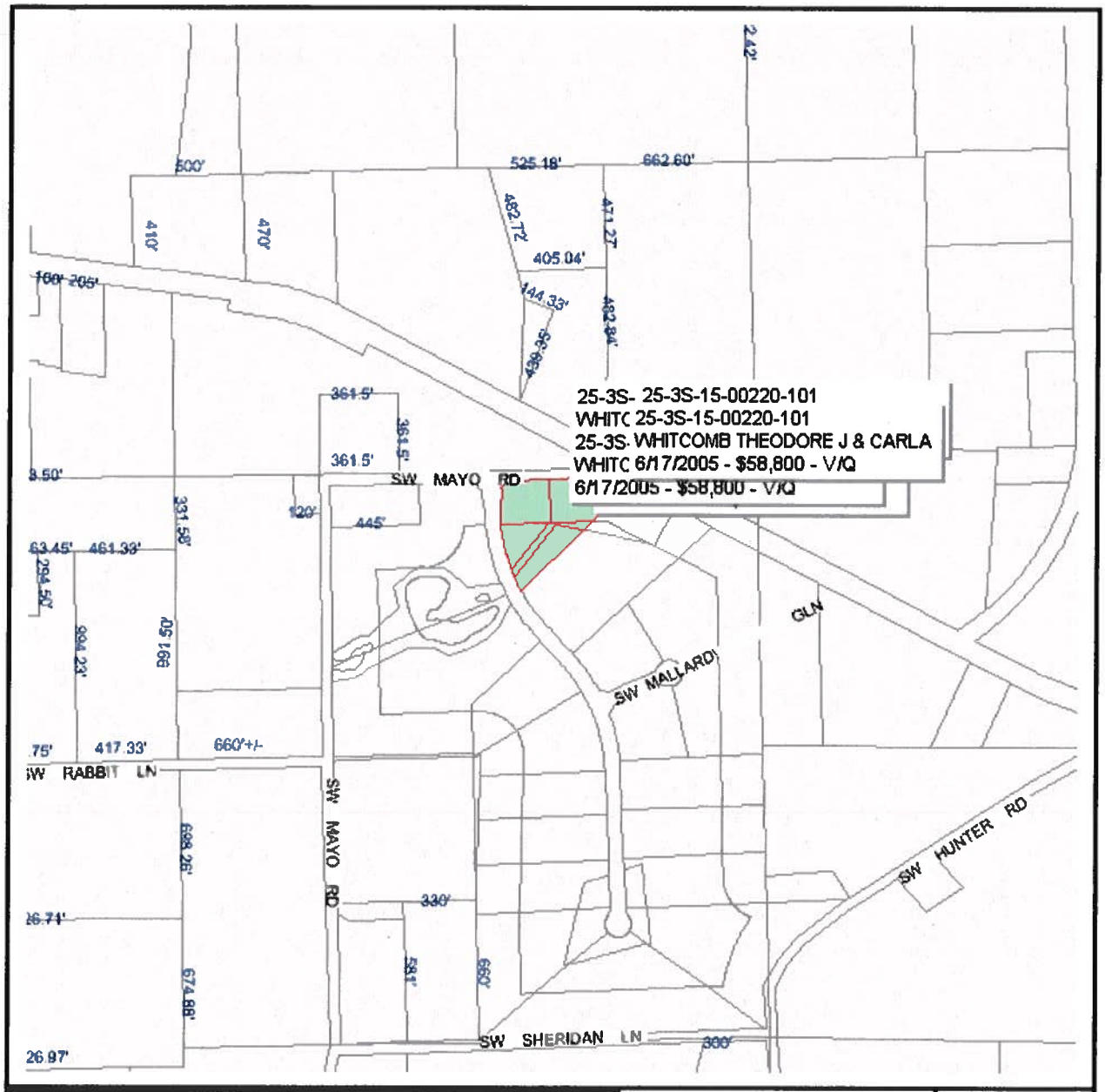
Builder Signature: _____ Date: _____

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.


UNPLATTED
N 89°25'30"E
762.74'
MAYO ROAD (COUNTY PAVE)
N 88°43'10"E
P.C.P.
903.73'
FOUND REBAR
L.B. # 4016
161.33'
HIGHWAY NO. 90
(RIGHT-OF-WAY) (PAVED)
S 61°29'00"E
218.58'
P.R.M.
242.59'
86.86'
76.86'
186.14'
311.30'
P.R.M. 76.24'
49.57'
184.46'
R.M.
L10
L9
L8
L7
L6
L5
L4
L3
L2
L1
S 1°16'50"E
153.56'
N 1°16'50"W
192.98'
P.C.P.
PC
35'
35'
LOT 1
3.92 ACRES±
1.55 ACRES± USEABLE
DRAINAGE EASEMENT
FLOOD ZONE "A"
FLOOD ZONE "X"
698.37'
128.51'
S 76°53'41"E
326.03'
10'
SW
(PUBLIC ROAD)
C35
C24
(LOT 19 TOTAL)
C29
C17
(LOT 1 TOTAL)
281.88'
305.49'
N 39°50'19"E
DRAINAGE EASEMENT
N 39°50'19"E
S 46°59'03"W
20' UTILITY EASEMENT
10'
10'
C1 34.10'
C30
C31
71.96'
C16
C25
C34
C33
C18
N 83°56'46"W
102.83'
N 48°52'44"W
131.01'
LOT 19
9.39 ACRES±
ACRES ± USEABLE
S 85°09'40"W
156.12'
WETLANDS
LOT 2
6.84 ACRES±
4.94 ACRES ± USEABLE
TLANDS
DRAINAGE EASEMENT
836.12'
WETLANDS
N 24°35'57"E
113.36'
C23
(LOT 18 TOTAL)
C32
N 50°06'40"E
79.80'
EASEMENT
10' UTILITY EASEMENT
P.C.P.
PT
S 41°29'43"E
35'
S 41°29'43"E
N 41°29'
56.45'
S 48°30'17"W
340.86'
20' UTILITY EASEMENT
S 29°23'28"E
308.92'



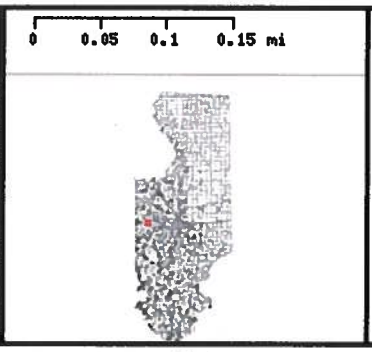
Columbia County Property Appraiser

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

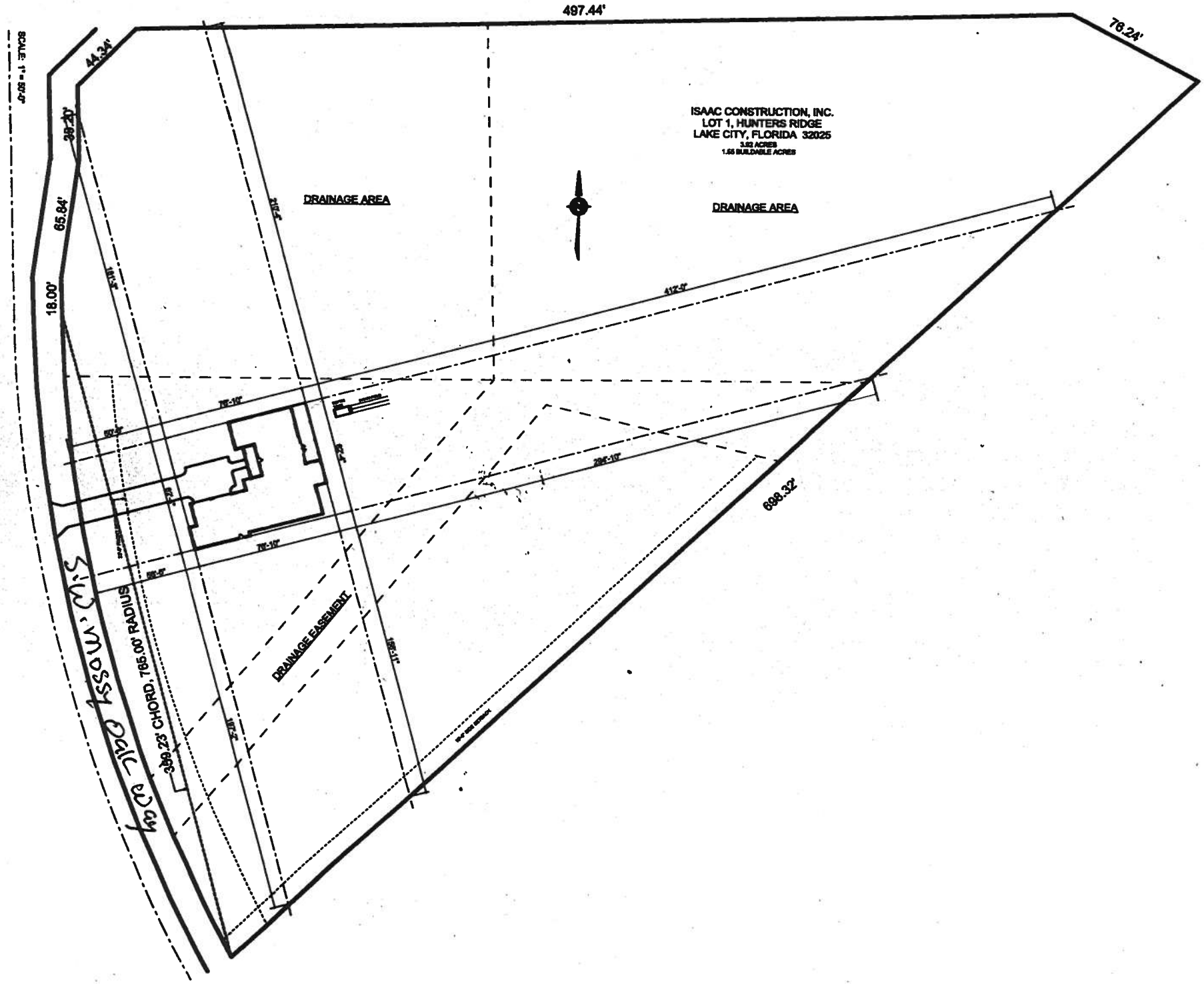
PARCEL: 25-3S-15-00220-101 - VACANT (000000)

LOT 1 HUNTER'S RIDGE S/D WD 1050-4.

Name:	WHITCOMB THEODORE J & CARLA	LandVal	$56,840.00
Site:		BldgVal	$0.00
Mail:	5600 NW 80TH TER PARKLAND, FL 33067	ApprVal	$56,840.00
		JustVal	$56,840.00
Sales Info	6/17/2005 $58,800.00 V / Q	Assd	$56,840.00
		Exmpt	$0.00
		Taxable	$56,840.00



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


497.44'
78.24'
44.34'
39.20'
65.84'
18.00'
ISAAC CONSTRUCTION, INC.
LOT 1, HUNTERS RIDGE
LAKE CITY, FLORIDA 32025
3.53 ACRES
1.55 BUILDABLE ACRES
DRAINAGE AREA
DRAINAGE AREA
DRAINAGE EASEMENT
698.32'
399.23' CHORD, 785.00' RADIUS
SCALE: 1" = 50'-0"

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 05-513
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Inst:200518025 Date:06/24/2005 Time:14:48
Doc Stamp-Deed : 411.60
DC,P.DeWitt Cason,Columbia County B:1050 P: 4

Property Appraiser's
Identification Number R00220-101

WARRANTY DEED

This Warranty Deed, made this 17th day of June, 2005, BETWEEN DANIEL CRAPPS, whose post office address is 2806 West US Highway 90, Suite 101, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and THEODORE J. WHITCOMB and CARLA WHITCOMB, Husband and Wife whose post office address is 5600 NW 80th Terrace, Parkland, FL 33067, of the State of Florida, grantee*.

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

Witnesseth: that said grantor, for and in consideration of the sum of Ten Dollars ($10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot 1, HUNTER'S RIDGE, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 158-161 of the public records of Columbia County, Florida.

N.B.: Neither the Grantor nor any member of his family live on or reside on the property described herein or any adjacent land thereto or claim any part hereof or any adjacent land thereto as their homestead.

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

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

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

(Signature of First Witness)
Terry McDavid
(Typed Name of First Witness)

(Signature of Second Witness)
Lita C. Cannon
(Typed Name of Second Witness)

(SEAL)
Grantor
DANIEL CRAPPS
Printed Name

Inst:200515025 Date:06/24/2005 Time:14:46
Doc Stamp-Deed : 411.60
DC,P.DeWitt Cason,Columbia County B:1050 P: 5

STATE OF Florida
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 17th day of June, 2005, by DANIEL CRAPPS, who is personally known to me and who did not take an oath.

My Commission Expires:

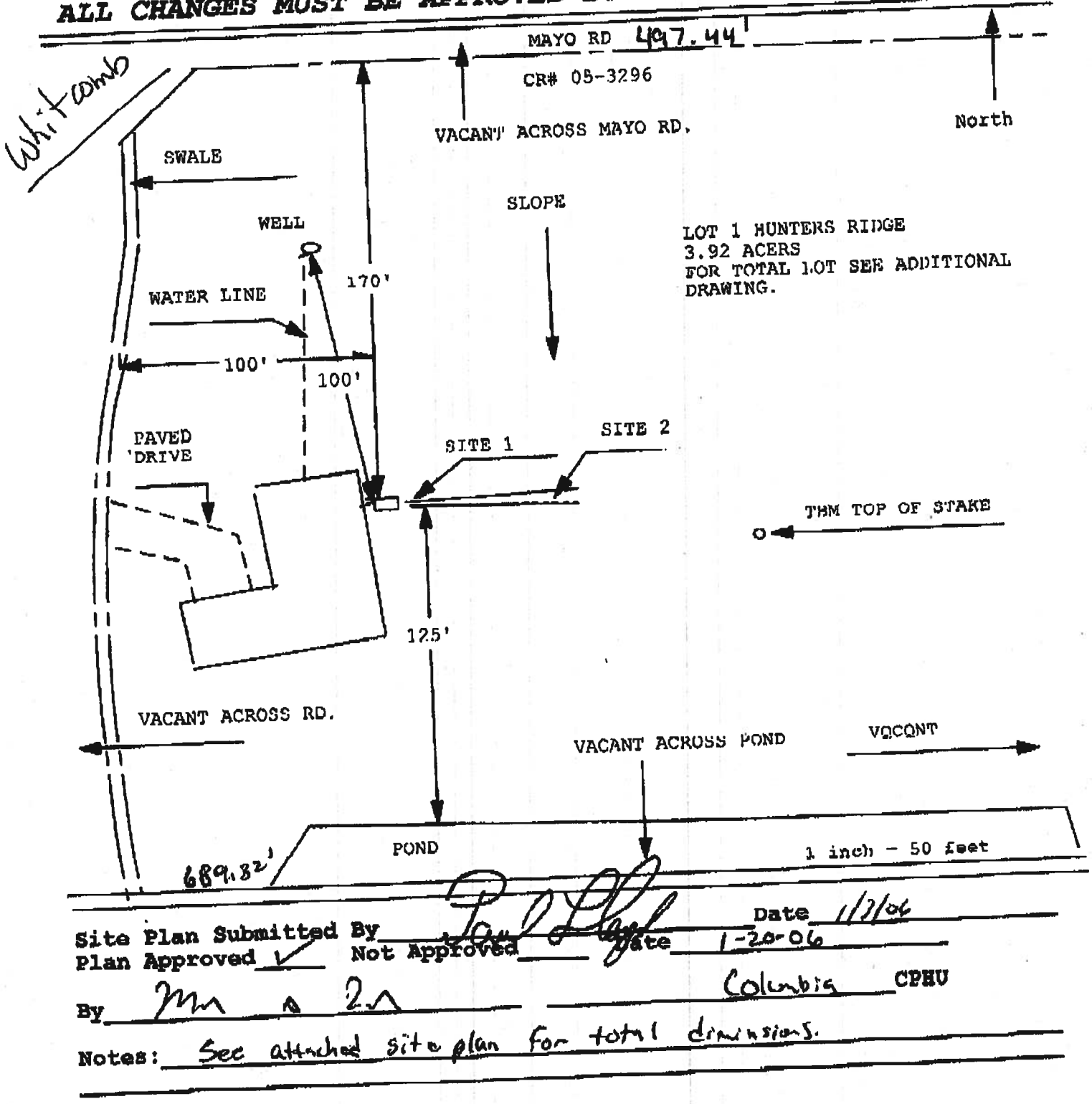
Notary Public
Printed, typed, or stamped name:

TERRY MCDAVID
MY COMMISSION EXPIRES
January 14, 2006
NOTARY PUBLIC, STATE OF FLORIDA

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

Permit Application Number: 06-0022N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By [signature] Date 1/31/06

Plan Approved ✓ Not Approved ____ Date 1-20-06

By [signature] Columbia CPHU

Notes: See attached site plan for total dimensions.

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
XXXXXXXXXXXXXXXXXXXX
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

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

Thank you,

Donald D. Hall
DDH/jk

Permit Number:

Tax Folio Number: R00220-101

State of: Florida
County of: Columbia

Inst:2006001739 Date:01/25/2006 Time:08:40
DC,P.DeWitt Cason,Columbia County B:1071 P:2585

File Number: 05-915

NOTICE OF COMMENCEMENT

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

1. Description of Property:
   Lot 1, Hunters Ridge, a subdivision, according to the Plat thereof, as recorded in Plat Book 7, Pages 158 through 161, of the Public Records of Columbia County, Florida.

2. General Description of Improvements: Single Family Dwelling

3. Owner Information:
   a. Name and Address: Theodore J. Whitcomb and Carla J. Whitcomb, husband and wife
   5600 NW 80th Terrace, Parkland, FL 33067

   b. Interest in property: Fee Simple

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

4. Contractor: Isaac Construction

5. Surety: N/A

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

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

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

9. Expiration date of Notice of Commencement (the expiration date is 1 year from date of recording unless a different date is specified): January 20, 2007.

Theodore J. Whitcomb

Carla J. Whitcomb

Sworn to and subscribed before me January 20, 2006 by Theodore J. Whitcomb and his wife, Carla J. Whitcomb who is personally known to me or who did provide drivers license as identification.

Notary Public
My Commission Expires:

Lyndi Skinner
My Commission DD160708
Expires September 17, 2008

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By Deputy Clerk
Date 1-25-06

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000973

DATE 02/16/2006 PARCEL ID # 25-3S-15-00220-101

APPLICANT MELANIE RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER THEODORE & CARLA WHITCOMB PHONE

ADDRESS 167 SW MOSSY OAK WAY LAKE CITY FL 32024

CONTRACTOR ISAAC CONSTRUCTION PHONE 719-7143

LOCATION OF PROPERTY 90W, TL ON MAYO ROAD, TL ON MOSSY OAK WAY, 1ST ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT HUNTERS RIDGE 1

SIGNATURE Melanie Rod

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, FLORIDA

CAL-TECH TESTING, INC.
ENGINEERING & TESTING LABORATORY
P.O. Box 1625, Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5, Jacksonville, FL 32257

Lake City • (904) 755-3633
Fax • (904) 752-5456
Jacksonville • (904) 262-4046
Fax • (904) 262-4047

JOB NO.: 06-139
DATE TESTED: 3-8-06

REPORT OF IN-PLACE DENSITY TEST

ASTM METHOD: X (D-2922) Nuclear __ (D-2937) Drive Cylinder __ Sandcone

PROJECT: Whitcomb Res Lake City, FL
CLIENT: Isaac Const

GENERAL CONTRACTOR: S.A.C
EARTHWORK CONTRACTOR: S.A.C

SOIL USE (SEE NOTE): 1 / Footers
SPECIFICATION REQUIREMENTS: 95%

TECHNICIAN: C. Allen
PRELIMINARY # 24143

MODIFIED (ASTM D-1557): XXXXX
STANDARD (ASTM D-698): _____

TEST NO.	TEST LOCATION	TEST: X DEPTH / ELEV. / LIFT	PROCTOR NO.	WET DENS. LBS.CU.FT	DRY DENS. LBS.CU.FT	MOIST. PERCENT	% MAX. DENS.
1	Center of Northern Most Footer	12"	☆	109.5	102.8	6.5	98.2
2	center of E' Footer	12"	☆	108.9	101.9	6.8	97.3
3	center of W' Footer	12"	☆	109.1	102.6	6.3	98.0
4	center of S' Footer	12"	☆	108.6	101.4	7.0	96.9

REMARKS: _____

PROCTOR NO.	SOIL DESCRIPTION	PROCTOR VALUE	OPT. MOIST.
☆ Pit	Dark Tan Sand	104.7	8.5

NOTE: 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other

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 25-3S-15-00220-101 **Building permit No.** 000024143

Use Classification SFD,UTILITY **Fire:** 61.38

Permit Holder ISAAC CONSTRUCTION **Waste:** 184.25

Owner of Building THEODORE & CARLA WHITCOMB **Total:** 245.63

Location: 167 SW MOSSY OAK WAY

Date: 11/09/2006

Harvey Sikes By:

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

NICHOLAS
PAUL
GEISLER
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

09 FEBRUARY 2006

JOHNNY KEARSE, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: WHITCOMB RESIDENCE
PERMIT Nr.: 0601-64

DEAR SIR:

PLEASE BE ADVISED OF THE FOLLOWING CHANGES TO THE CONSTRUCTION DOCUMENTS FOR THE ABOVE REFERENCED PROJECT:

IN LIEU OF THE TRUSS ANCHORS INDICATED IN THE CON DOCS, IT SHALL BE PERMISSIBLE TO ANCHOR THE TRUSSES TO THE WALL FRAMING WITH "SIMPSON" H2.5A ANCHORS EXCEPT AS NOTED HERE:

TRUSSES A1, B3G & S6G, USE 2 "SIMPSON" H2.5A ANCHORS, MOUNTED DIAGONAL OPPOSITE - 2 EACH, EACH END OF THE TRUSS.

TRUSSES G1G & D5G, USE "SIMPSON" LGT2 ANCHOR STRAP, EACH END.
NOTE: STUDS SUPPORTING GIRDERS SHALL BE SYP #2 OR BETTER.

SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

ASPEN
PEST CONTROL, INC.

Phone (386) 755-3611
Fax (386) 752-5381

Notice of Intent for Preventative Treatment for Termites

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

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

Ted/Carla Whitcomb, 167 SW Mossy Oakway, Lake City, Fl 32024

Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate

Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood

Description of Treatment

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

Celia Dryden
Authorized Signature

1-18-2006
Date

Whitcomb

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 specifically 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 (accessable 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

Residential System Sizing Calculation

Summary

Whitcomb Residence

, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

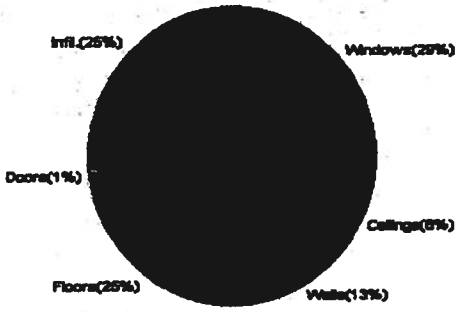
12/14/2005

Location for weather data: Gainesville - User customized: Latitude(29) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	99	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	24	F
Total heating load calculation	**41023**	**Btuh**	**Total cooling load calculation**	**53599**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	119.4	49000	Sensible (SHR = 0.75)	80.8	36750
Heat Pump + Auxiliary(0.0kW)	119.4	49000	Latent	150.5	12250
			Total (Electric Heat Pump)	91.4	49000

WINTER CALCULATIONS

Winter Heating Load (for 2121 sqft)

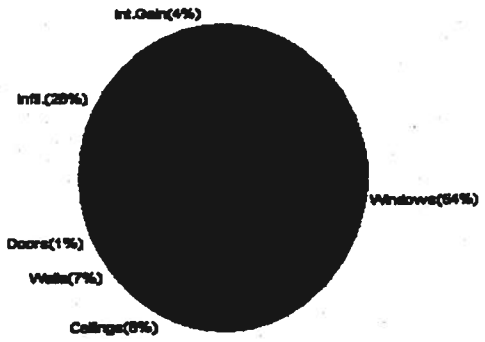
Load component			Load	
Window total	365	sqft	11759	Btuh
Wall total	1860	sqft	5394	Btuh
Door total	40	sqft	518	Btuh
Ceiling total	2250	sqft	2651	Btuh
Floor total	238	sqft	10391	Btuh
Infiltration	255	cfm	10310	Btuh
Duct loss			0	Btuh
Subtotal			**41023**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**41023**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2121 sqft)

Load component			Load	
Window total	365	sqft	28681	Btuh
Wall total	1860	sqft	3810	Btuh
Door total	40	sqft	490	Btuh
Ceiling total	2250	sqft	4228	Btuh
Floor total			0	Btuh
Infiltration	223	cfm	5851	Btuh
Internal gain			2400	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**45460**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			8139	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			0	Btuh
Total latent gain			**8139**	**Btuh**
TOTAL HEAT GAIN			**53599**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: _____

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Whitcomb Residence
, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

12/14/2005

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	W	80.0	32.2	2575 Btuh
3	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	W	45.0	32.2	1449 Btuh
5	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	W	45.0	32.2	1449 Btuh
7	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
8	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
9	2, Clear, Metal, 0.87	S	9.0	32.2	290 Btuh
10	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
11	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	E	13.3	32.2	428 Btuh
13	2, Clear, Metal, 0.87	E	28.0	32.2	901 Btuh
14	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
	Window Total		365(sqft)		11759 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	1680	2.9	4802 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180	3.3	591 Btuh
	Wall Total		1860		5394 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2250	1.2	2651 Btuh
	Ceiling Total		2250		2651Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	238.0 ft(p)	43.7	10391 Btuh
	Floor Total		238		10391 Btuh
			Zone Envelope Subtotal:		30713 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	19089	254.5	10310 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**41023 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Whitcomb Residence
, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

12/14/2006

	Subtotal Sensible	41023 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	41023 Btuh

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

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Whitcomb Residence
, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

12/14/2005

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	W	80.0	32.2	2575 Btuh
3	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	W	45.0	32.2	1449 Btuh
5	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	W	45.0	32.2	1449 Btuh
7	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
8	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
9	2, Clear, Metal, 0.87	S	9.0	32.2	290 Btuh
10	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
11	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
12	2, Clear, Metal, 0.87	E	13.3	32.2	428 Btuh
13	2, Clear, Metal, 0.87	E	28.0	32.2	901 Btuh
14	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
	Window Total		365(sqft)		11759 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	1680	2.9	4802 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180	3.3	591 Btuh
	Wall Total		1860		5394 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2250	1.2	2651 Btuh
	Ceiling Total		2250		2651Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	238.0 ft(p)	43.7	10391 Btuh
	Floor Total		238		10391 Btuh
			Zone Envelope Subtotal:		30713 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	19089	254.5	10310 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**41023 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Whitcomb Residence
, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

12/14/2005

	Subtotal Sensible	41023 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	41023 Btuh

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Whitcomb Residence
, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 12/14/2005

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	9.5ft	10ft.	30.0	17.3	12.7	35	86	1693 Btuh
2	2, Clear, 0.87, None,N,N	W	9.5ft	10ft.	80.0	54.6	25.4	35	86	4087 Btuh
3	2, Clear, 0.87, None,N,N	S	11.5f	10ft.	15.0	15.0	0.0	35	40	526 Btuh
4	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	45.0	0.0	45.0	35	86	3852 Btuh
5	2, Clear, 0.87, None,N,N	N	1.5ft	10ft.	15.0	0.0	15.0	35	35	526 Btuh
6	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	45.0	0.0	45.0	35	86	3852 Btuh
7	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	20.0	0.0	20.0	35	35	701 Btuh
8	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	16.0	0.0	16.0	35	35	561 Btuh
9	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	9.0	9.0	0.0	35	40	315 Btuh
10	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	15.0	15.0	0.0	35	40	526 Btuh
11	2, Clear, 0.87, None,N,N	E	7.5ft	10ft.	30.0	7.3	22.7	35	86	2197 Btuh
12	2, Clear, 0.87, None,N,N	E	7.5ft	10ft.	13.3	5.8	7.5	35	86	847 Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	28.0	0.0	28.0	35	86	2397 Btuh
14	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	4.0	4.0	0.0	35	40	140 Btuh
	Excursion									6461 Btuh
	Window Total				365 (sqft)					28681 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	19.0/0.08	1679.7	2.0	3427 Btuh
2	Frame - Wood - Adj	13.0/0.09	180.0	2.1	383 Btuh
	Wall Total		1860 (sqft)		3810 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	12.3	245 Btuh
2	Insulated - Exterior	20.0	12.3	245 Btuh
	Door Total	40 (sqft)		490 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2250.0	1.9	4228 Btuh
	Ceiling Total		2250 (sqft)		4228 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	238 (ft(p))	0.0	0 Btuh
	Floor Total		238.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		37209 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	19089	222.7	5851 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		0	X 230 +	2400	2400 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**45460 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Whitcomb Residence

, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

12/14/2005

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**45460 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**45460 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**45460 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	8139 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**8139 Btuh**
	TOTAL GAIN	**53599 Btuh**

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Whitcomb Residence
, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 12/14/2005

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Omt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	9.5ft	10ft.	30.0	17.3	12.7	35	86	1693 Btuh
2	2, Clear, 0.87, None,N,N	W	9.5ft	10ft.	80.0	54.6	25.4	35	86	4087 Btuh
3	2, Clear, 0.87, None,N,N	S	11.5f	10ft.	15.0	15.0	0.0	35	40	526 Btuh
4	2, Clear, 0.87, None,N,N	W	1.5ft	10ft.	45.0	0.0	45.0	35	86	3852 Btuh
5	2, Clear, 0.87, None,N,N	N	1.5ft	10ft.	15.0	0.0	15.0	35	35	526 Btuh
6	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	45.0	0.0	45.0	35	86	3852 Btuh
7	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	20.0	0.0	20.0	35	35	701 Btuh
8	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	16.0	0.0	16.0	35	35	561 Btuh
9	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	9.0	9.0	0.0	35	40	315 Btuh
10	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	15.0	15.0	0.0	35	40	526 Btuh
11	2, Clear, 0.87, None,N,N	E	7.5ft	10ft.	30.0	7.3	22.7	35	86	2197 Btuh
12	2, Clear, 0.87, None,N,N	E	7.5ft	10ft.	13.3	5.8	7.5	35	86	847 Btuh
13	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	28.0	0.0	28.0	35	86	2397 Btuh
14	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	4.0	4.0	0.0	35	40	140 Btuh
	Excursion									6461 Btuh
	Window Total				365 (sqft)					28681 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	19.0/0.08	1679.7	2.0	3427 Btuh
2	Frame - Wood - Adj	13.0/0.09	180.0	2.1	383 Btuh
	Wall Total		1860 (sqft)		3810 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	12.3	245 Btuh
2	Insulated - Exterior	20.0	12.3	245 Btuh
	Door Total	40 (sqft)		490 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2250.0	1.9	4228 Btuh
	Ceiling Total		2250 (sqft)		4228 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	238 (ft(p))	0.0	0 Btuh
	Floor Total		238.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		37209 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	19089	222.7	5851 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		0	X 230 +	2400	2400 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**45460 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Whitcomb Residence

, FL 32025-

Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

12/14/2005

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**45460 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**45460 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**45460 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	8139 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (0 people @ 200 Btuh per person)	0 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**8139 Btuh**
	TOTAL GAIN	**53599 Btuh**

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

For Florida residences only

Residential Window Diversity

MidSummer

Whitcomb Residence

, FL 32025-

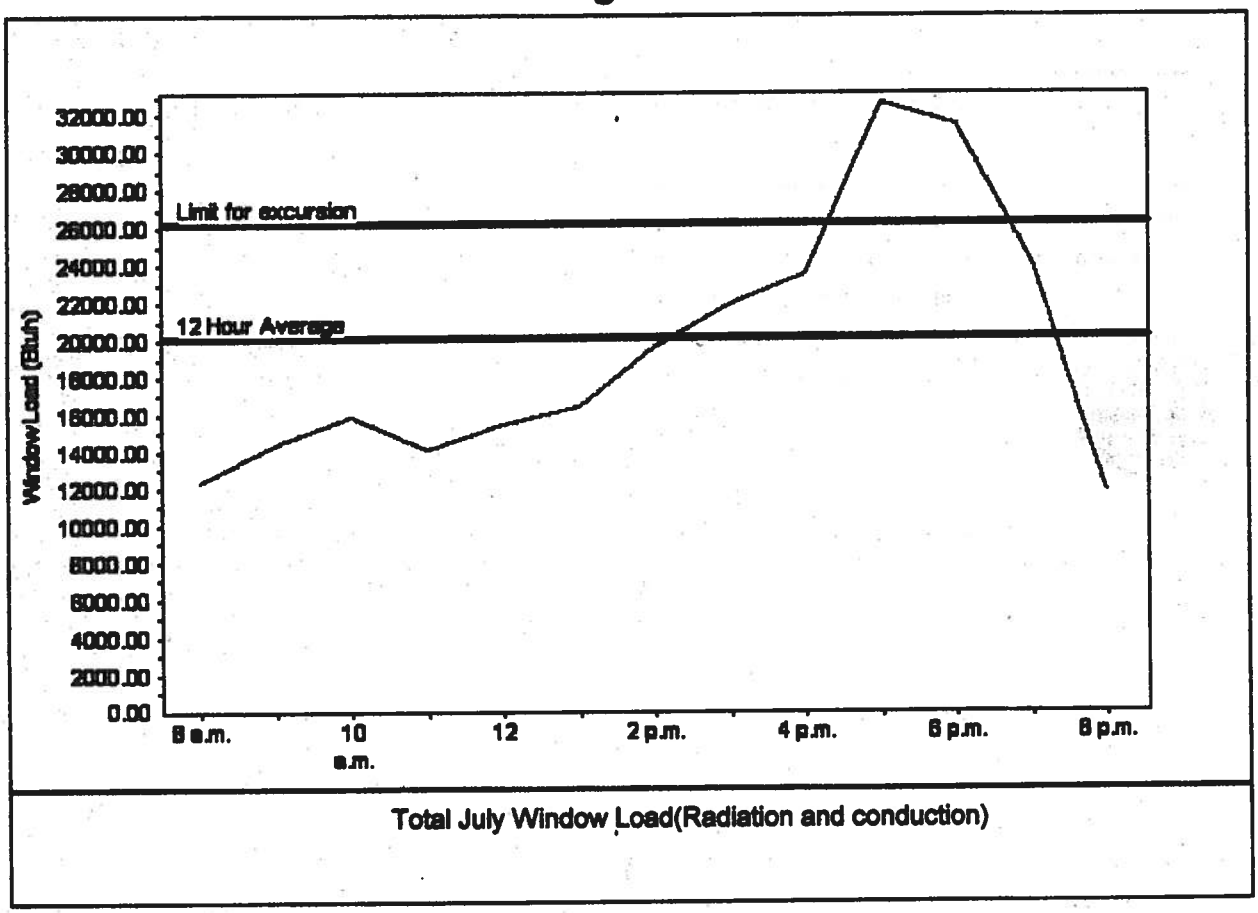
Project Title:
Isaac Construction - Whitcomb

Code Only
Professional Version
Climate: North

12/14/2005

Summer design temperature	99 F	Average window load for July	20142 Btu
Summer setpoint	75 F	Peak window load for July	32646 Btu
Summer temperature difference	24 F	Excusion limit(130% of Ave.)	26185 Btu
Latitude	29 North	Window excursion (July)	6461 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

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:mlb

ALLEN R. REEVES
CERTIFICATE
NO. 11254
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen R. Reeves
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 vinyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wraparound 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 M. Reeves
1 APRIL 2002

ALLAN M. REEVES
No. 12384
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 ★ CERTIFICATE NO. 18854 ★ 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 Forces	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

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

	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.

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

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.

Allen H. Reeves
1 APRIL 2002

ALLEN H. REEVES ★ CERTIFICATE NO. 1[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.

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

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" min.

LEII N. REEVES
CERTIFICATE
No. 18334
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

1 APRIL 2002

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. 1805
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Garage door

The Florida Department of Community Affairs

Building Code Information System

FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authorization | Organization Search | Organization Accreditation

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Approval Status: (ALL)

Manufact. Buildings

Organization Name: General American Door - Product Manufacturer

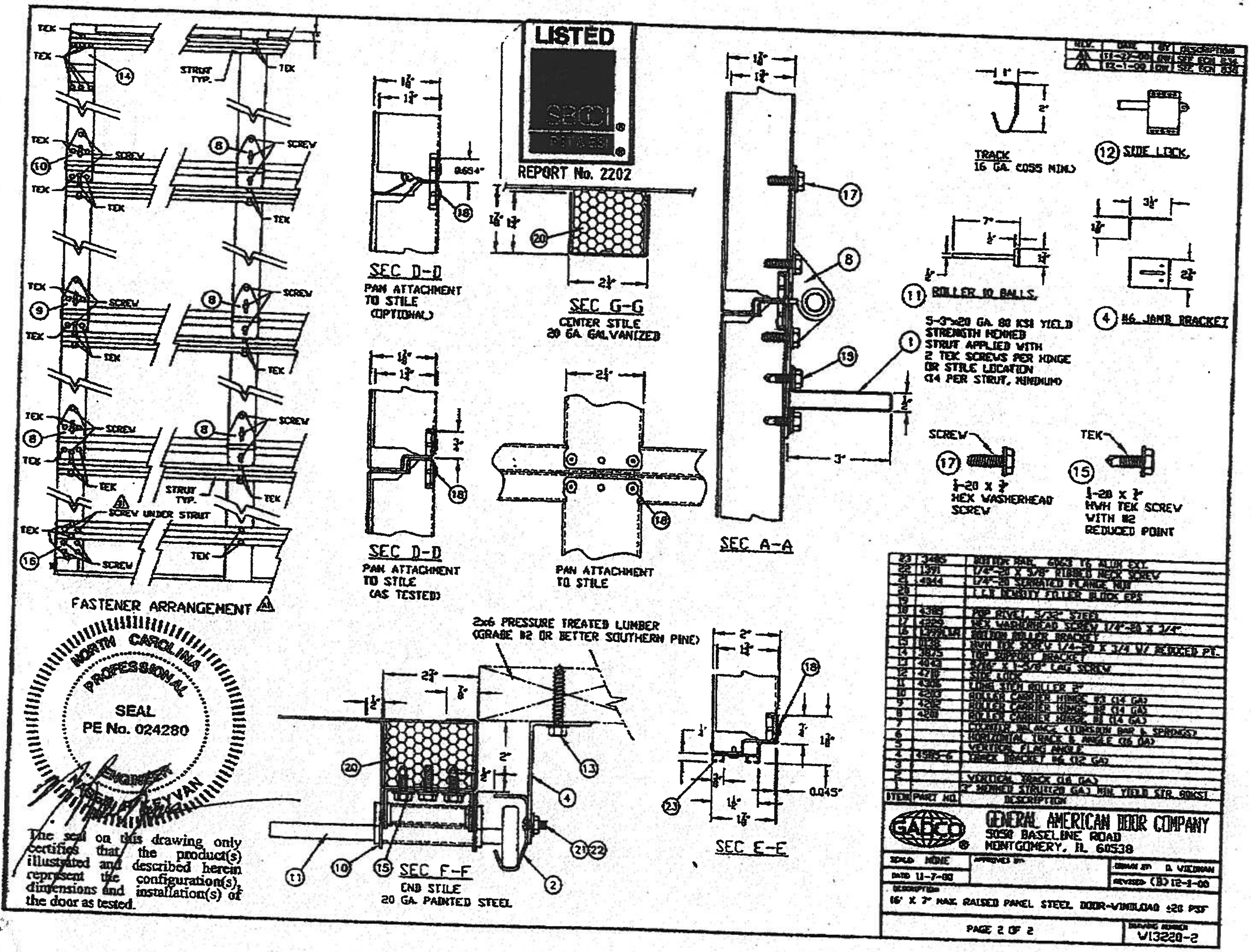
Cancel Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadco.com			

Displaying 1-1 of 1



The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.

REV.	DATE	BY	DESCRIPTION
A	11-27-00	DW	SEE ECN 634
B	12-1-00	DW	SEE ECN 634

ITEM	PART NO.	DESCRIPTION
23	3485	BOTTOM BAR, 6063 T6 ALUM EXT.
22	1391	1/4"-20 X 3/8" RIBBED NECK SCREW
21	4044	1/4"-20 SERRATED FLANGE NUT
20		1 LB DENSITY FILLER BLOCK EPS
19		
18	4385	POP RIVET, 5/32" STEEL
17	4229	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	[illegible]	BOTTOM ROLLER BRACKET
15	[illegible]	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	3875	TOP SUPPORT BRACKET
13	4043	5/16" X 1-5/8" LAG SCREW
12	4710	SIDE LOCK
11	4306	LONG STEM ROLLER 2"
10	4203	ROLLER CARRIER HINGE #3 (14 GA)
9	4202	ROLLER CARRIER HINGE #2 (14 GA)
8	4201	ROLLER CARRIER HINGE #1 (14 GA)
7		COUNTER BALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	4585-6	JAMB BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		3" HEMMED STRUT (20 GA) MIN. YIELD STR. 80KSI

GADCO®

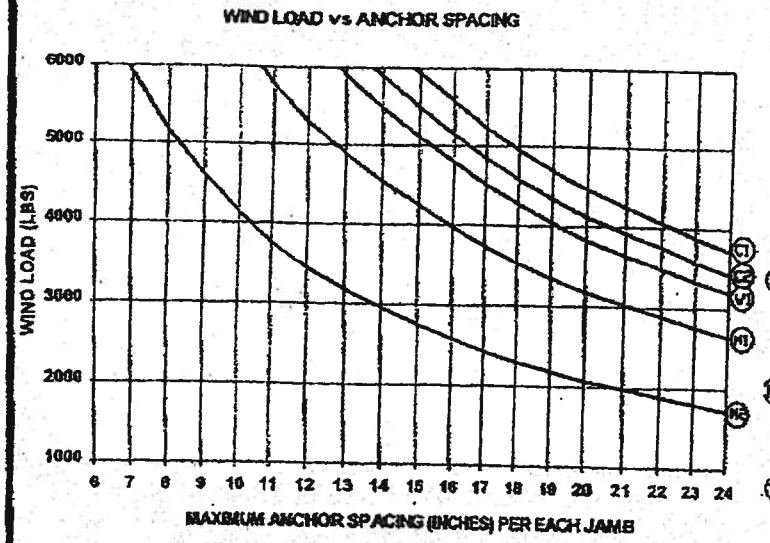
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE NONE	APPROVED BY	DRAWN BY D. VIEDMAN
DATE 11-7-00		REVISED (B) 12-1-00

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

PAGE 2 OF 2

DRAWING NUMBER: VI3220-2



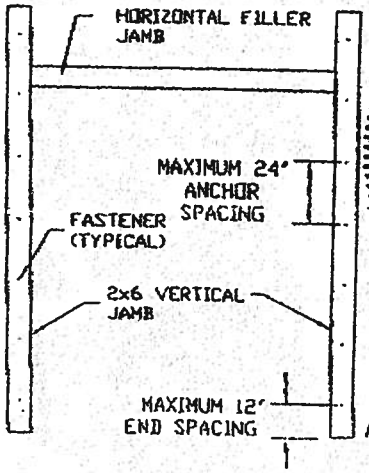
DESIGN LOAD (LBS) $\frac{\text{LBS}}{\text{FT}^2}$ X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

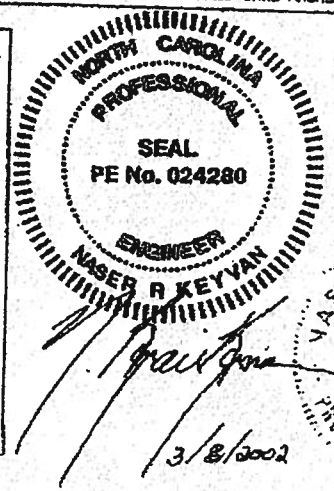
EXAMPLE

$\frac{30 \text{ LBS}}{\text{FT}^2}$ X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

- (C1) USE 22" SPACING
- (C2) USE 21" SPACING
- (V1) USE 19" SPACING
- (M1) USE 16" SPACING
- (M2) USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS





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 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.

GADCO

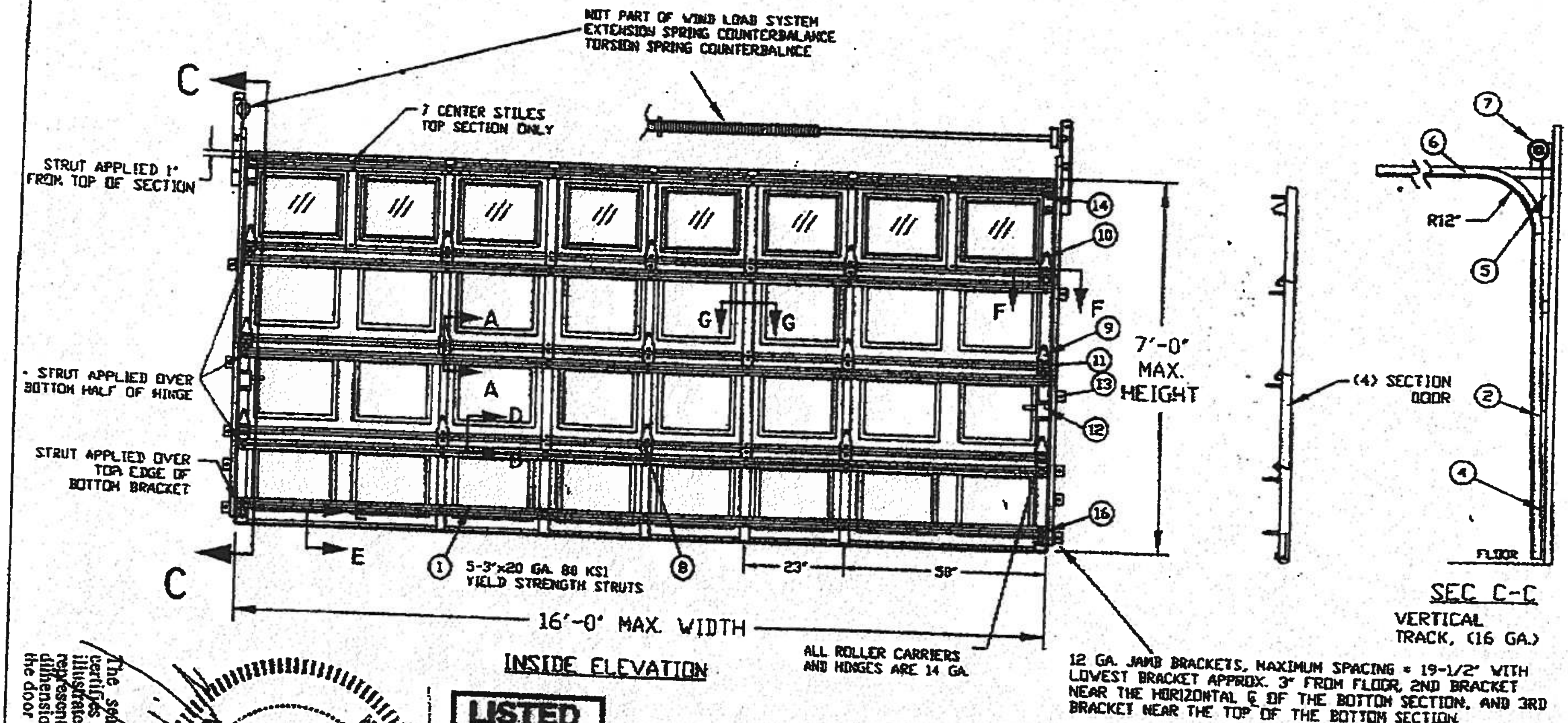
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DV
DATE: 8-30-99		REVISED
DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS		
	MASTER DRAWING NUMBER: A10560	DRAWING NUMBER

REV.	DATE	BY	DESCRIPTION
A - A	11-10-00	DW	SEE E.C.N. 831

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" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STEM IS 5¼" (7" 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. (A) DROP IN TYPE OF INSULATION IS OPTIONAL



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

The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.

LISTED SBCCI PST & ESI
REPORT No. 2202

TEST REPORTS ON FILE VIDEO 10/19/00 (00293)

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

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

GADCO GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

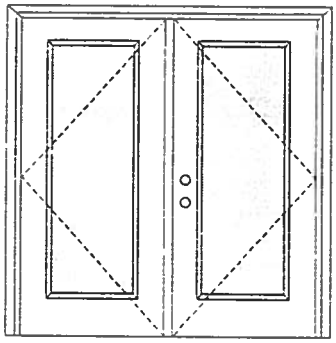
SCALE: 1/25	APPROVED BY:	DRAWN BY: D. VIEDMAN
DATE: 10-20-00		REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF		
PART NUMBER	PAGE 1 OF 2	DRAWING NUMBER V13220-1

XX
Glazed Inswing Unit

COP-WL-JH4142-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

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

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

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

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

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0002-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

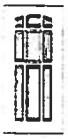
Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series


136 Series


680 Series

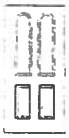

822 Series

1/2 GLASS:


105 Series*


106, 160 Series*


129 Series*


200 Series*


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


107 Series*


108 Series


304 Series

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

Johnson EntrySystems

June 17, 2002

PREMDOR

Masonite International Corporation

XX
Glazed Inswing Unit

COP-WL-JH4142-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:


404 Series


410 Series


450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

Warnock Hersey

Test Data Review Certificate #3026447A and COP Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Z

Johnson EntrySystems

June 17, 2002

PREMDOR

Masonite

Masonite International Corporation

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.

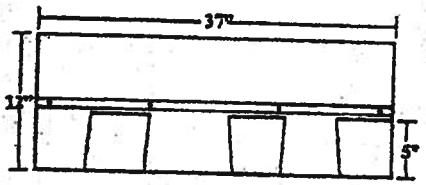
TAMKO Roofing Products, Inc.

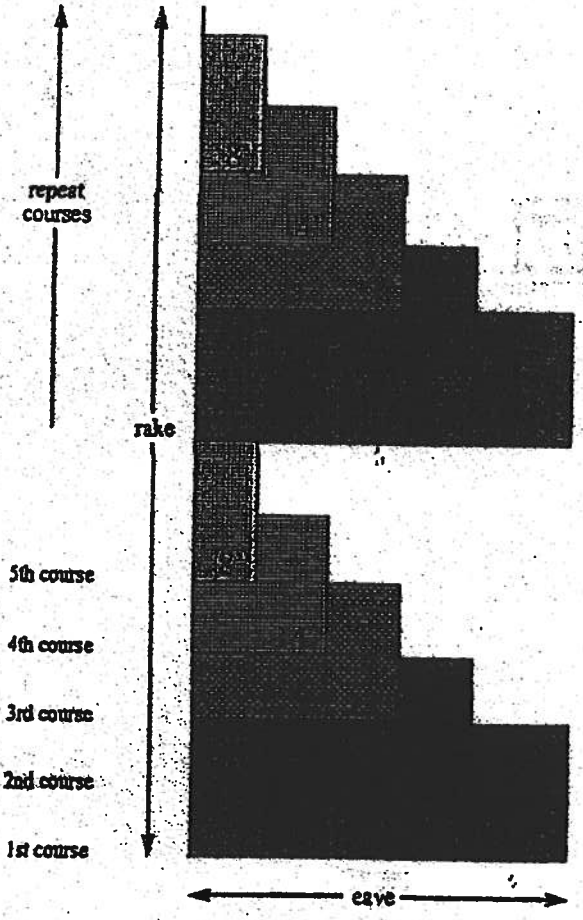
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

TAMKO
ROOFING PRODUCTS

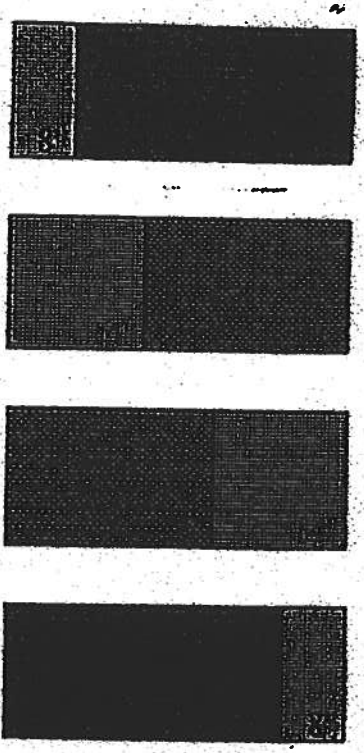
Application Instructions For Heritage® 25 Series Shingles

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.

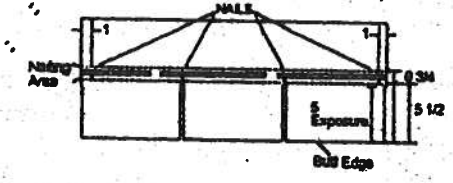
3. FASTENING

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.

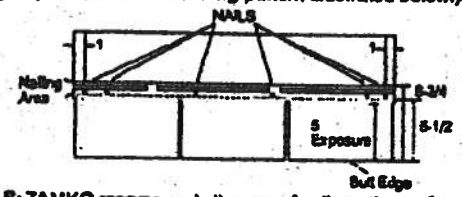
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

2. 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.

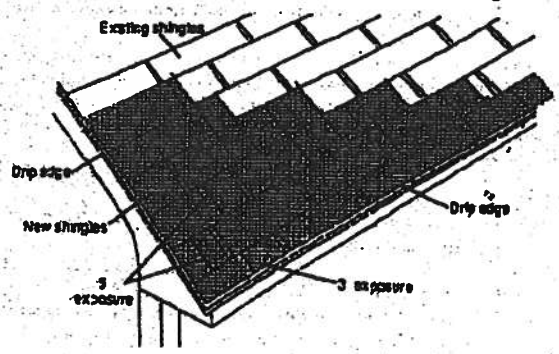
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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



3. 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.

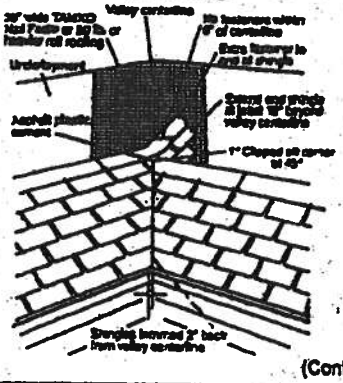
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- 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)

(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.

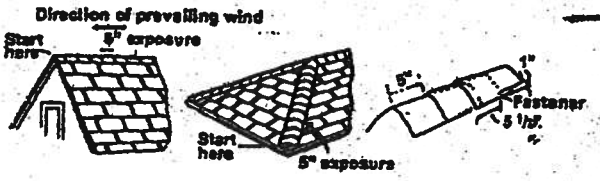
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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.

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:1STY487-Z0218165227

Truss Fabricator: Anderson Truss Company
Job Identification: 5-557-ISAAC CONSTRUCTION-WHITCOMB
Truss Count: 49
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software,Version 7.22.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 01/18/2006

-Truss Design Engineer-
Arthur R. Fisher
Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844

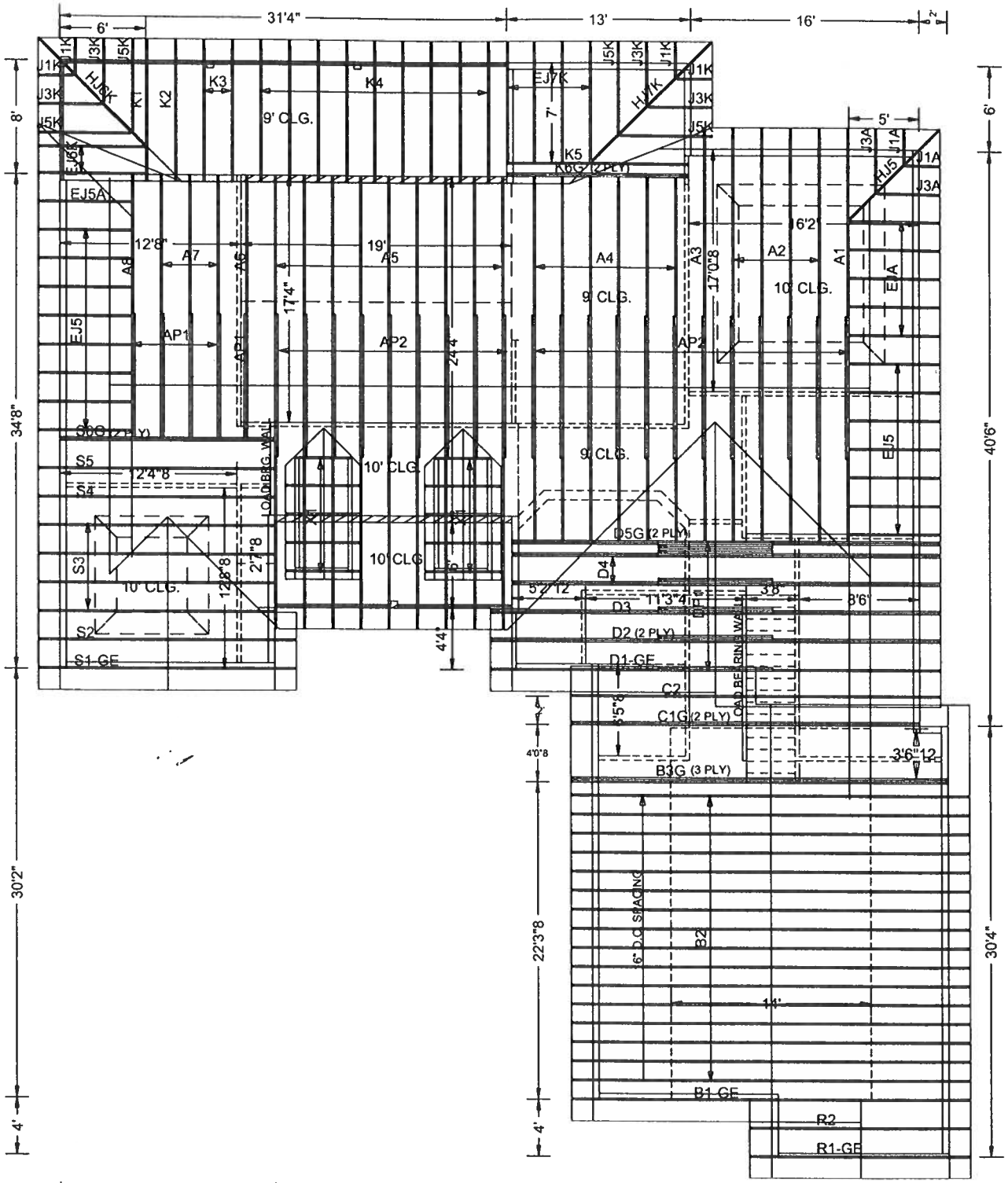
Notes:

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

Details: A11015EE-GBLLETIN-BRCLBSUB-A11030EE-MAX DEAD LOAD

#	Ref Description	Drawing#	Date
1	81989--A1	06018052	01/18/06
2	81990--A2	06018053	01/18/06
3	81991--A3	06018054	01/18/06
4	81992--A4	06018055	01/18/06
5	81993--A5	06018056	01/18/06
6	81994--A6	06018057	01/18/06
7	81995--A7	06018058	01/18/06
8	81996--A8	06018059	01/18/06
9	81997--B1-GE	06018060	01/18/06
10	81998--B2	06018061	01/18/06
11	81999--B3G	06018062	01/18/06
12	82000--C1G	06018063	01/18/06
13	82001--C2	06018064	01/18/06
14	82002--D1-GE	06018065	01/18/06
15	82003--D2	06018066	01/18/06
16	82004--D3	06018067	01/18/06
17	82005--D4	06018068	01/18/06
18	82006--D5G	06018069	01/18/06
19	82007--EJA	06018070	01/18/06
20	82008--J3A	06018071	01/18/06
21	82009--J1A	06018072	01/18/06
22	82010--EJ5A	06018073	01/18/06
23	82011--EJ6K	06018074	01/18/06
24	82012--HJ7K	06018075	01/18/06
25	82013--HJ6K	06018076	01/18/06
26	82014--EJ7K	06018077	01/18/06
27	82015--J5K	06018078	01/18/06
28	82016--J3K	06018079	01/18/06
29	82017--J1K	06018080	01/18/06
30	82018--EJ5	06018046	01/18/06
31	82019--HJ5	06018081	01/18/06
32	82020--K1	06018082	01/18/06
33	82021--K2	06018083	01/18/06
34	82022--K3	06018047	01/18/06
35	82023--K4	06018084	01/18/06
36	82024--K5	06018085	01/18/06

#	Ref Description	Drawing#	Date
37	82025--K6G	06018086	01/18/06
38	82026--AP1	06018087	01/18/06
39	82027--AP2	06018088	01/18/06
40	82028--DP1	06018089	01/18/06
41	82029--R1-GE	06018090	01/18/06
42	82030--R2	06018048	01/18/06
43	82031--X1	06018049	01/18/06
44	82032--S1-GE	06018091	01/18/06
45	82033--S2	06018050	01/18/06
46	82034--S3	06018051	01/18/06
47	82035--S4	06018092	01/18/06
48	82036--S5	06018093	01/18/06
49	82037--S6G	06018094	01/18/06



#5-557 ISAAC CONSTRUCTION - WHITCOMB 1/17/06

Scale: 3/32" = 1'

719-7143

(5-557-ISAAC CONSTRUCTION WHITCOMB - A1)

Top chord 2x6 SP #2 :T3, T4, T6 2x4 SP #2 Dense:
Bot chord 2x4 SP #2 Dense :B5 2x6 SP #2:
Webs 2x4 SP #3 :W25 2x4 SP #2 Dense:
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 1.500'

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 60 PLF at -1.50 to 81 PLF at 27.54
BC - From 4 PLF at -1.50 to 20 PLF at 27.54
PLT- 400 LB Conc. Load at (5.00,14.20)
PLT- 170 LB Conc. Load at (7.06,15.53)
PLT- 170 LB Conc. Load at (9.06,17.20)
PLT- 170 LB Conc. Load at (11.06,18.87)
PLT- 170 LB Conc. Load at (13.06,19.46)
PLT- 128 LB Conc. Load at (15.06,19.46)
PLT- 128 LB Conc. Load at (17.06,19.46)
PLT- 128 LB Conc. Load at (19.06,19.46)
PLT- 128 LB Conc. Load at (21.06,19.46)
PLT- 128 LB Conc. Load at (23.06,18.37)
PLT- 128 LB Conc. Load at (25.06,16.71)
PLT- 128 LB Conc. Load at (27.06,15.04)
PLB- 115 LB Conc. Load at (5.00,10.04)
PLB- 33 LB Conc. Load at (7.06,10.04)
PLB- 33 LB Conc. Load at (9.06,10.04)
PLB- 33 LB Conc. Load at (11.06,10.04)
PLB- 33 LB Conc. Load at (13.06,10.04)
PLB- 58 LB Conc. Load at (15.06,9.04)
PLB- 58 LB Conc. Load at (17.06,9.04)
PLB- 58 LB Conc. Load at (19.06,9.04)

THE ARCHITECT OR ENGINEER OF RECORD SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS".)

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

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

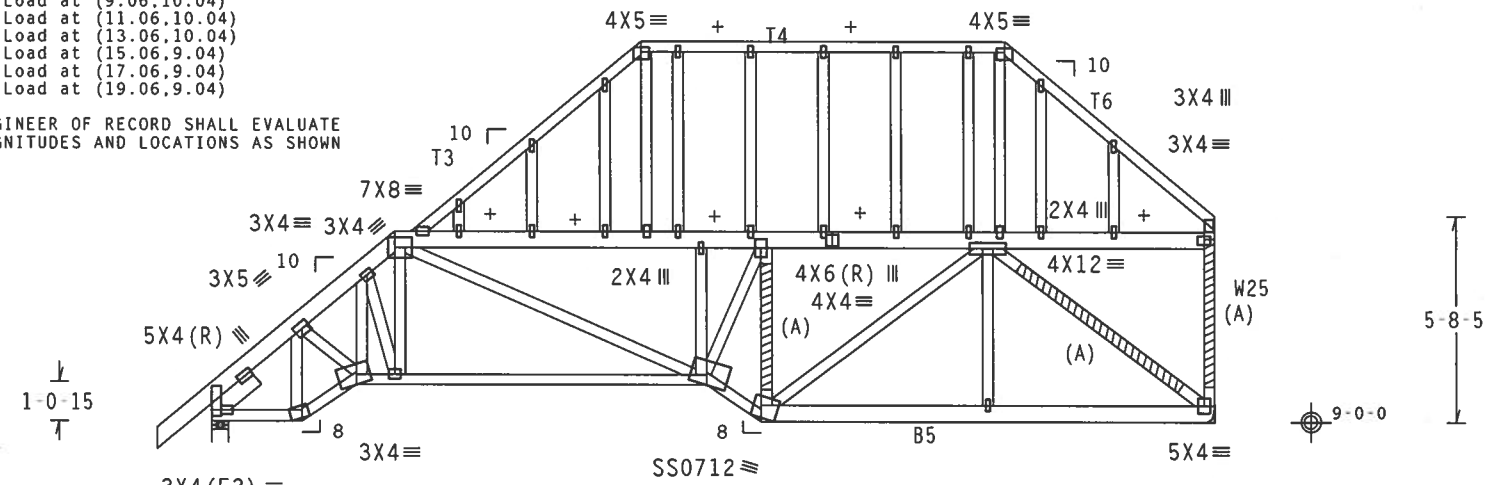
(A) SP #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.



Calculated horizontal deflection is 0.11" due to live load and 0.16" due to dead load.

5-0-0	6-9-3	5-2-13	4-9-3	5-5-13	0-3-8
2-5-8 1-6-0	9-7-0	1-6-0	12-6-0		

27-6-8 Over 2 Supports

R=2639 U=554 W=5.5"

R=2763 U=619 H=Simpson HUS26
w/ (6) 16d, 0.162"x2.5" nails in Truss
w/ (14) 16d, 0.162"x2.5" nails in Girder
Girder is (1)2X6 min. So.Pine

Right end vertical not exposed to wind pressure.

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. 20 Gauge HS,18 Gauge HS, Wave

Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.22.11

TY:1 FL/-/4/-/-/R/-

Scale =.1875"/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.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 81989
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018052
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25528
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - A2)

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

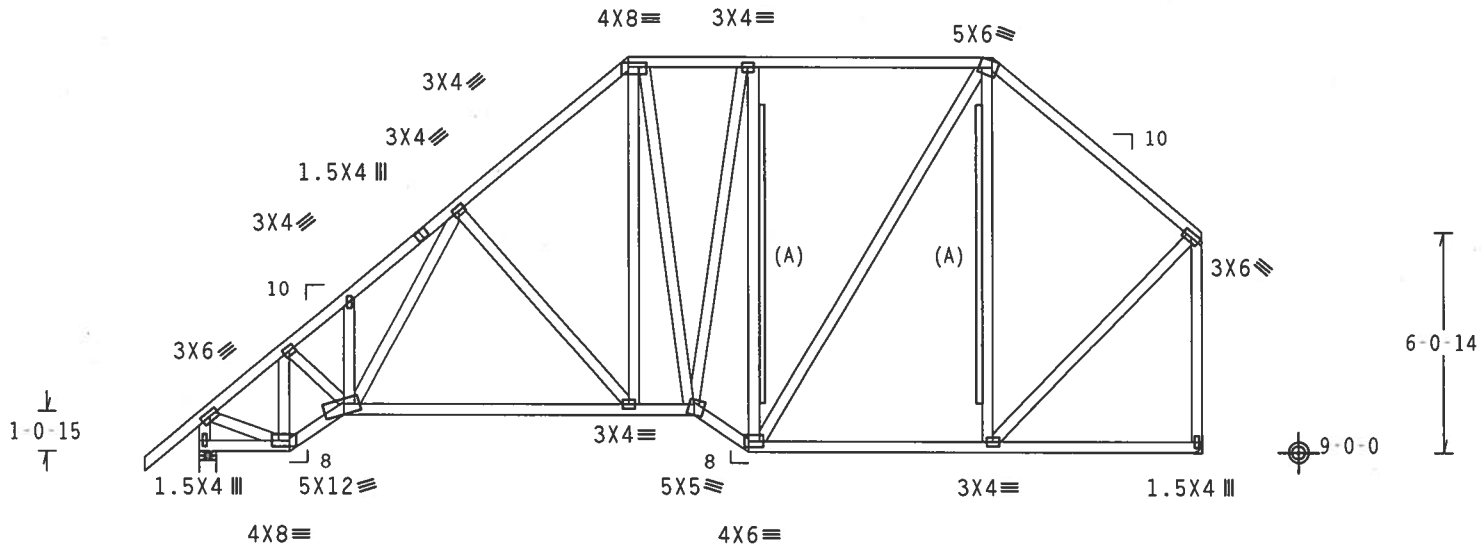
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

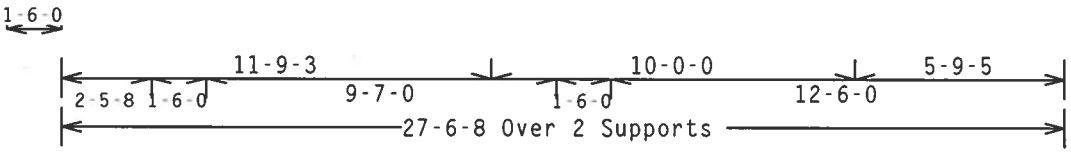
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

Right end vertical not exposed to wind pressure.

(A) 2x4 SP #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.





R=1303 U=180 W=5.5"

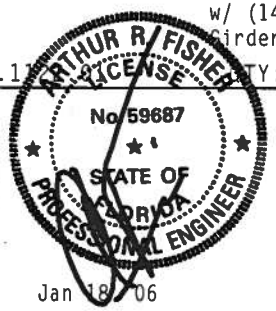
R=1186 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:4 FL/-/4/-/-/R/- Scale =.1875"/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.



Jan 18, 06

TC LL	20.0 PSF	REF	R487-- 81990
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018053
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25340
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - A3)

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

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

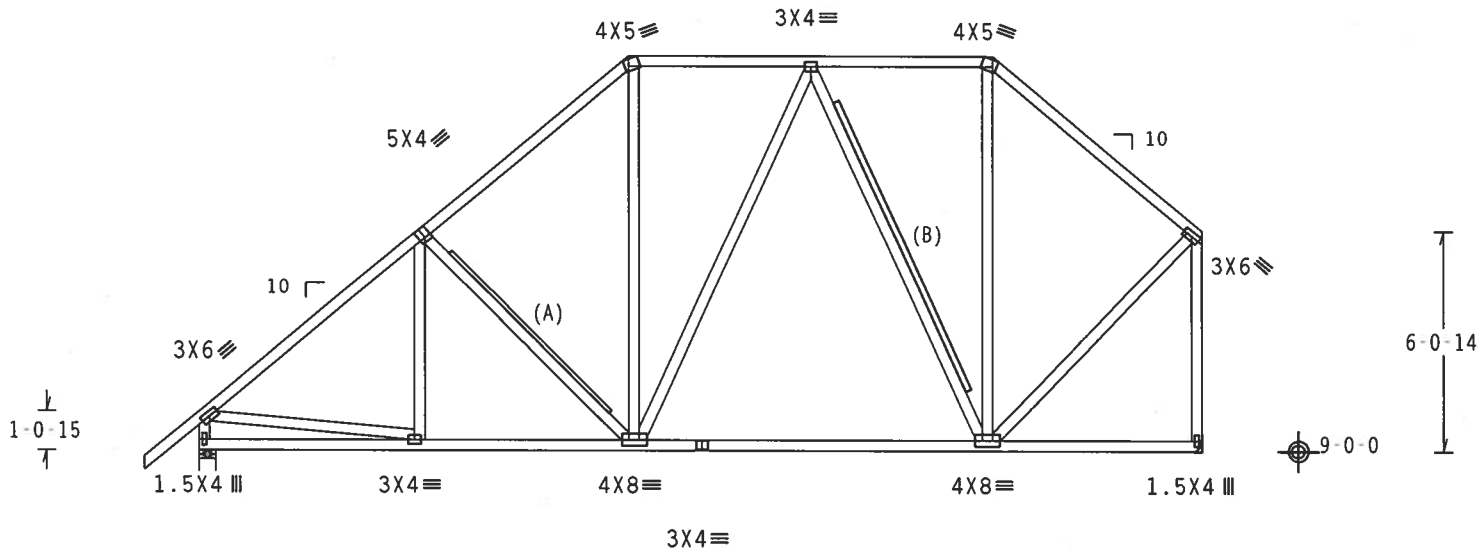
(B) 2x6 SP #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

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

Right end vertical not exposed to wind pressure.

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

Deflection meets L/360 live and L/240 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) 7.22.11 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

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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.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 81991
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018054
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25321
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

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

End verticals not exposed to wind pressure.

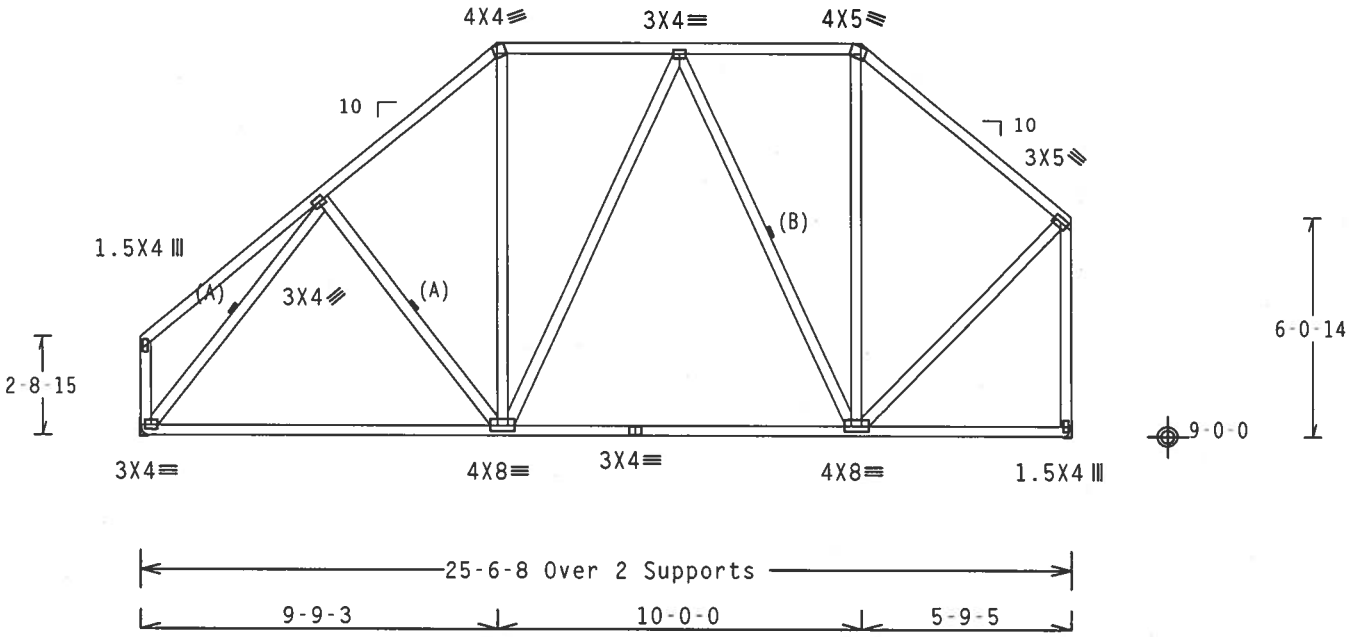
(A) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.81 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

(B) Continuous lateral bracing equally spaced on member. Or 2x6 SP #3 or better "T" brace. 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.



R=1099 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. So.Pine

R=1099 U=180 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. So.Pine

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:6 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
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ARTHUR R. FISHER LICENSE No.39687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 81992
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018055
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25308
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-1SAAC CONSTRUCTION WHITCOMB - A5)

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	66 PLF	at	-1.50	to	66 PLF	at 2.50
TC - From	280 PLF	at	2.50	to	176 PLF	at 10.11
TC - From	176 PLF	at	10.11	to	176 PLF	at 10.56
TC - From	66 PLF	at	10.56	to	66 PLF	at 10.57
TC - From	66 PLF	at	10.57	to	66 PLF	at 30.33
BC - From	5 PLF	at	-1.50	to	5 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 13.00
BC - From	22 PLF	at	13.00	to	22 PLF	at 30.33
TC -	206 LB Conc. Load	at	2.50			

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

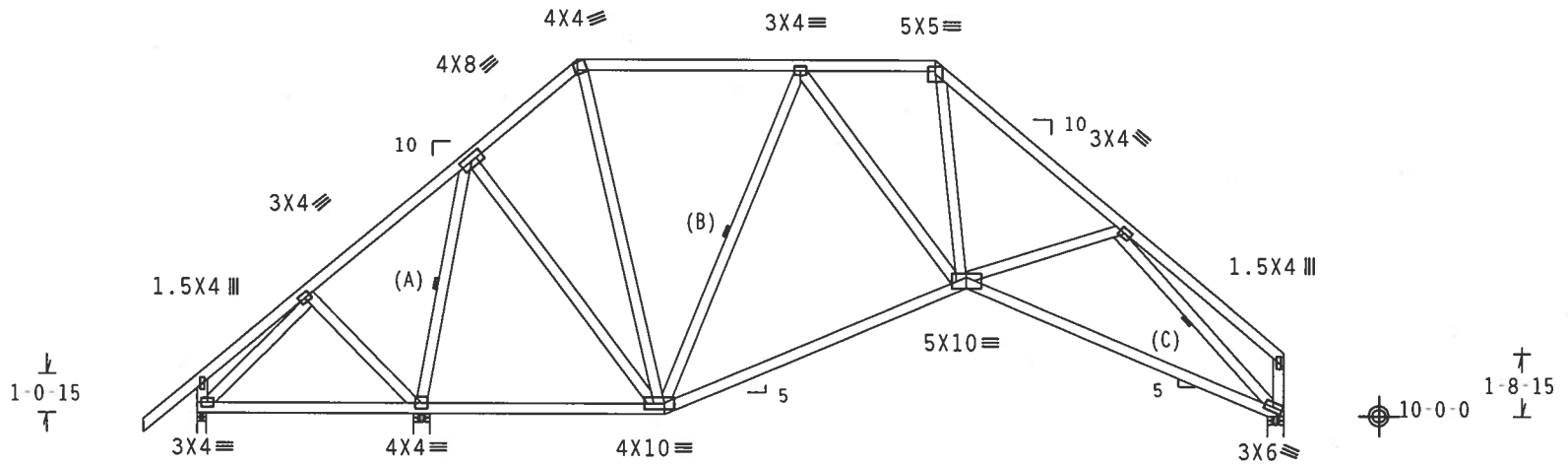
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

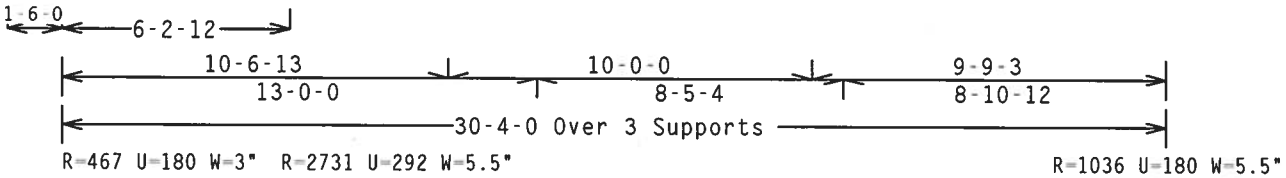
(C) Continuous lateral bracing equally spaced on member. Or 1x4 SP #3 or better "T" brace. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

(B) Continuous lateral bracing equally spaced on member. Or 2x4 SP #3 or better "T" brace. 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

(A) Continuous lateral bracing equally spaced on member. Or 2x6 SP #3 or better "T" brace. 80% length of web member. Attached with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

Shim all supports to solid bearing.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.22.1 TY:9 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18,06

TC LL	20.0 PSF	REF	R487-- 81993
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018056
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25487
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION WH1COMB - A6)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W1 2x4 SP #2 Dense:

Left end vertical not exposed to wind pressure.

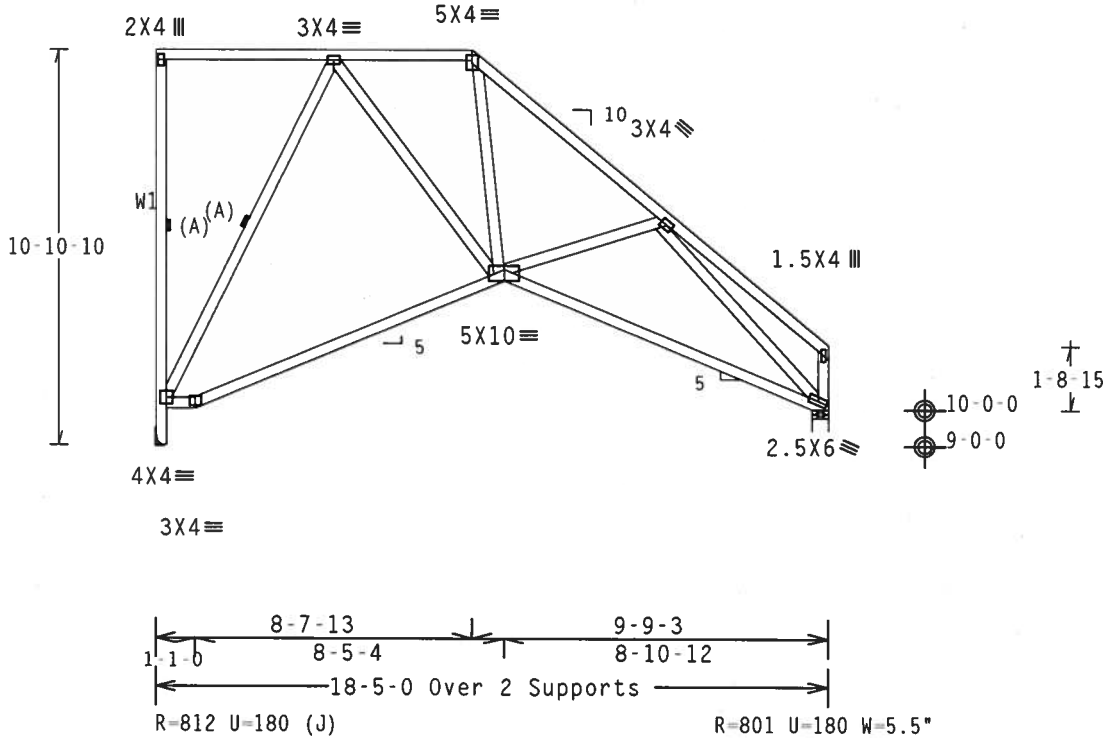
(J) hanger connection not found in inventory file for this condition. Provide connection.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.81 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

(A) Continuous lateral bracing equally spaced on member.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 81994
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018057
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25460
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - A7)

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

End verticals not exposed to wind pressure.

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

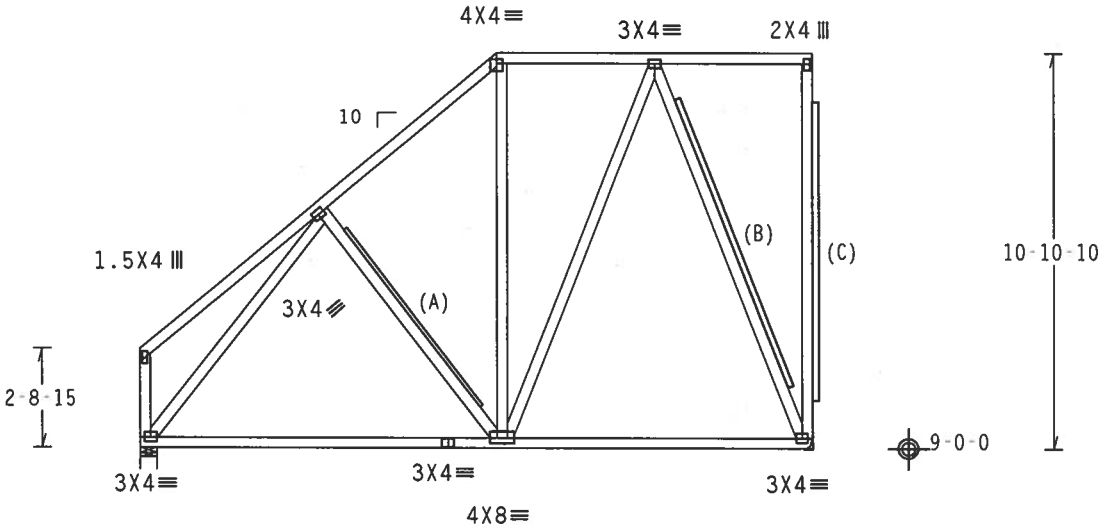
(C) 2x4 SP #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

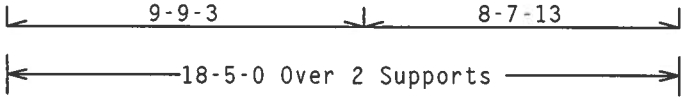
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.81 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

(B) 2x6 SP #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.





R=792 U=180 W=5.5"

R=792 U=180 H=Simpson LU26
w/ (4) 10d, 0.148"x1.5" nails in Truss
w/ (6) 16d, 0.162"x2.5" nails in Girder
Girder is (1)2X6 min.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.11 QTY:3 FL/-/4/-/-/R/-

Scale =.1875"/Ft.

ALPINE
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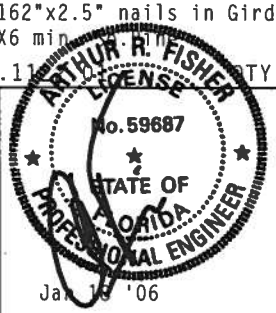


Ja[illegible] '06

TC LL	20.0 PSF	REF	R487-- 81995
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018058
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25358
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION WHITCOMB - A8)

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 60 PLF at 0.00 to 81 PLF at 18.42
BC - From 20 PLF at 0.00 to 20 PLF at 18.42
PLT- 38 LB Conc. Load at (1.94,13.31)
PLT- 128 LB Conc. Load at (7.94,17.93)
PLT- 128 LB Conc. Load at (9.94,19.46)
PLT- 128 LB Conc. Load at (11.94,19.46)
PLT- 128 LB Conc. Load at (13.94,19.46)
PLT- 128 LB Conc. Load at (15.94,19.46)
PLT- 128 LB Conc. Load at (17.94,19.46)
PLB- 161 LB Conc. Load at (1.94,9.04)
PLB- 58 LB Conc. Load at (3.94,9.04)
PLB- 128 LB Conc. Load at (3.94,14.59)
PLB- 58 LB Conc. Load at (5.94,9.04)
PLB- 128 LB Conc. Load at (5.94,16.26)
PLB- 58 LB Conc. Load at (7.94,9.04)
PLB- 58 LB Conc. Load at (9.94,9.04)
PLB- 58 LB Conc. Load at (11.94,9.04)
PLB- 58 LB Conc. Load at (13.94,9.04)
PLB- 58 LB Conc. Load at (15.94,9.04)
PLB- 58 LB Conc. Load at (17.94,9.04)

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

110 mph wind, 15.62 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

End verticals not exposed to wind pressure.

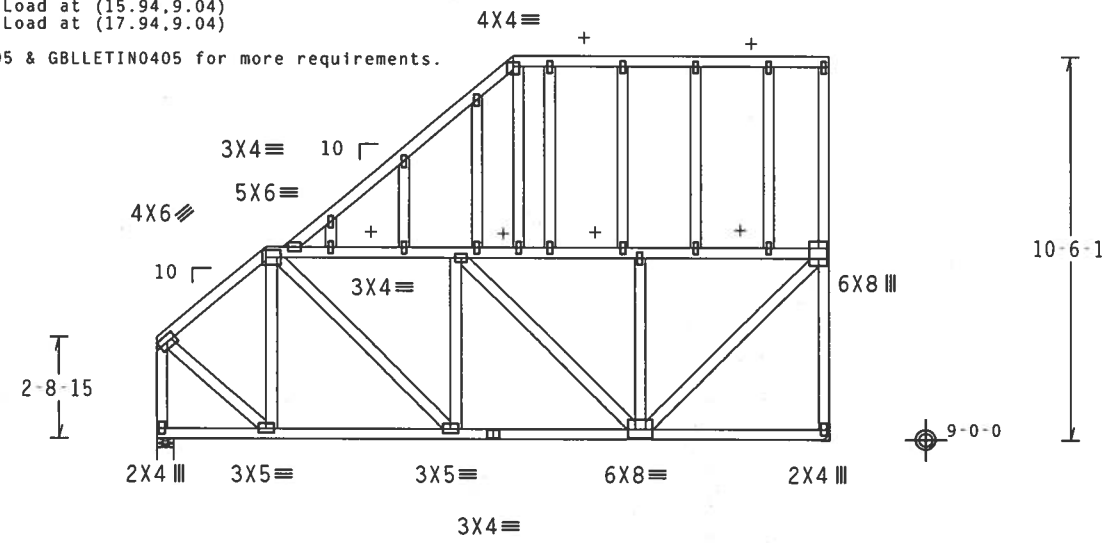
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

THE ARCHITECT OR ENGINEER OF RECORD SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS".)

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

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



3-0-0 | 6-9-3 | 8-7-13

18-5-0 Over 2 Supports

R=1670 U=374 W=5.5"

R=1830 U=416 H=Simpson HUS26
w/ (4) 10d Common, 0.148"x3.0" nails in Truss
w/ (14) 10d Common, 0.148"x3.0" nails in Girder
Girder is (1)2X6 min. So.Pine

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) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 10 '06

TC LL	20.0 PSF	REF	R487-- 81996
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018059
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25430
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5 557-1SAAC CONSTRUCTION WHITCOMB - B1-GE)

Top chord 2x8 SP SS :T1, T4 2x4 SP #2 Dense:
:T6 2x6 SP #2:
Bot chord 2x8 SP SS :B3 2x4 SP #2 Dense:
Webs 2x4 SP #3

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

TC	From	65 PLF	at	-1.50	to	65 PLF	at 5.50
TC	From	82 PLF	at	5.50	to	82 PLF	at 9.97
TC	From	65 PLF	at	9.97	to	65 PLF	at 12.04
TC	From	95 PLF	at	12.04	to	95 PLF	at 12.50
TC	From	95 PLF	at	12.50	to	95 PLF	at 15.03
TC	From	112 PLF	at	15.03	to	112 PLF	at 18.75
TC	From	61 PLF	at	18.75	to	61 PLF	at 19.50
TC	From	44 PLF	at	19.50	to	44 PLF	at 21.72
TC	From	44 PLF	at	21.72	to	44 PLF	at 26.50
PLT	From	13 PLF	at	10.73	to	13 PLF	at 14.27
BC	From	3 PLF	at	-1.50	to	3 PLF	at 0.00
BC	From	13 PLF	at	0.00	to	13 PLF	at 5.50
BC	From	80 PLF	at	5.50	to	80 PLF	at 19.50
BC	From	13 PLF	at	19.50	to	13 PLF	at 25.00
BC	From	3 PLF	at	25.00	to	3 PLF	at 26.50

BC 57 LB Conc. Load at 5.50, 19.50

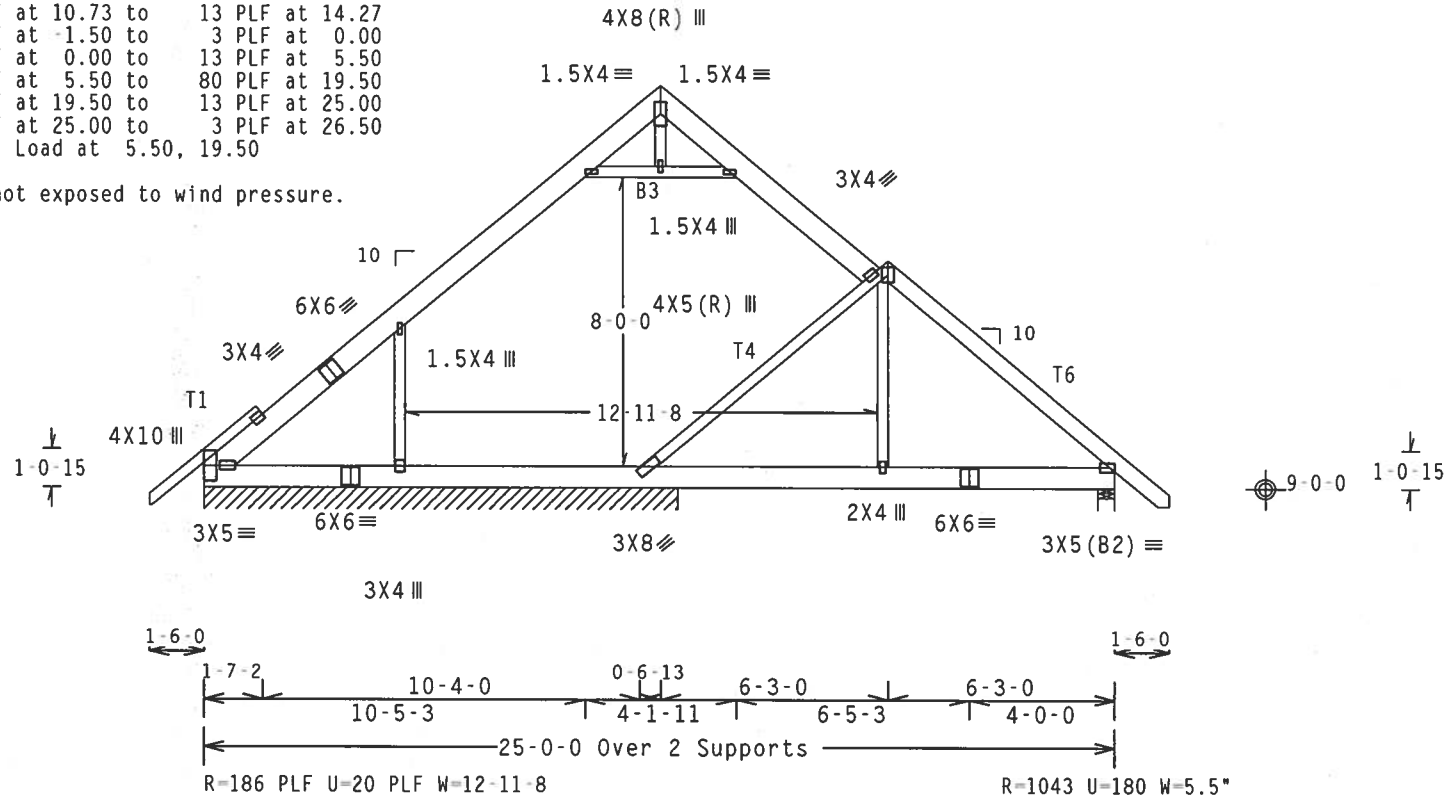
Left end vertical not exposed to wind pressure.

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

Trusses to be spaced at 16.0" OC maximum.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 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) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 81997
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018060
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	77173 REV
DUR.FAC.	1.25	FROM	JP
SPACING	16.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - B2)

Top chord 2x6 SP #2 :T2, T3 2x8 SP SS:
Bot chord 2x8 SP SS :B3 2x4 SP #2 Dense:
Webs 2x4 SP #3

Calculated horizontal deflection is 0.12" due to live load and 0.21" due to dead load.

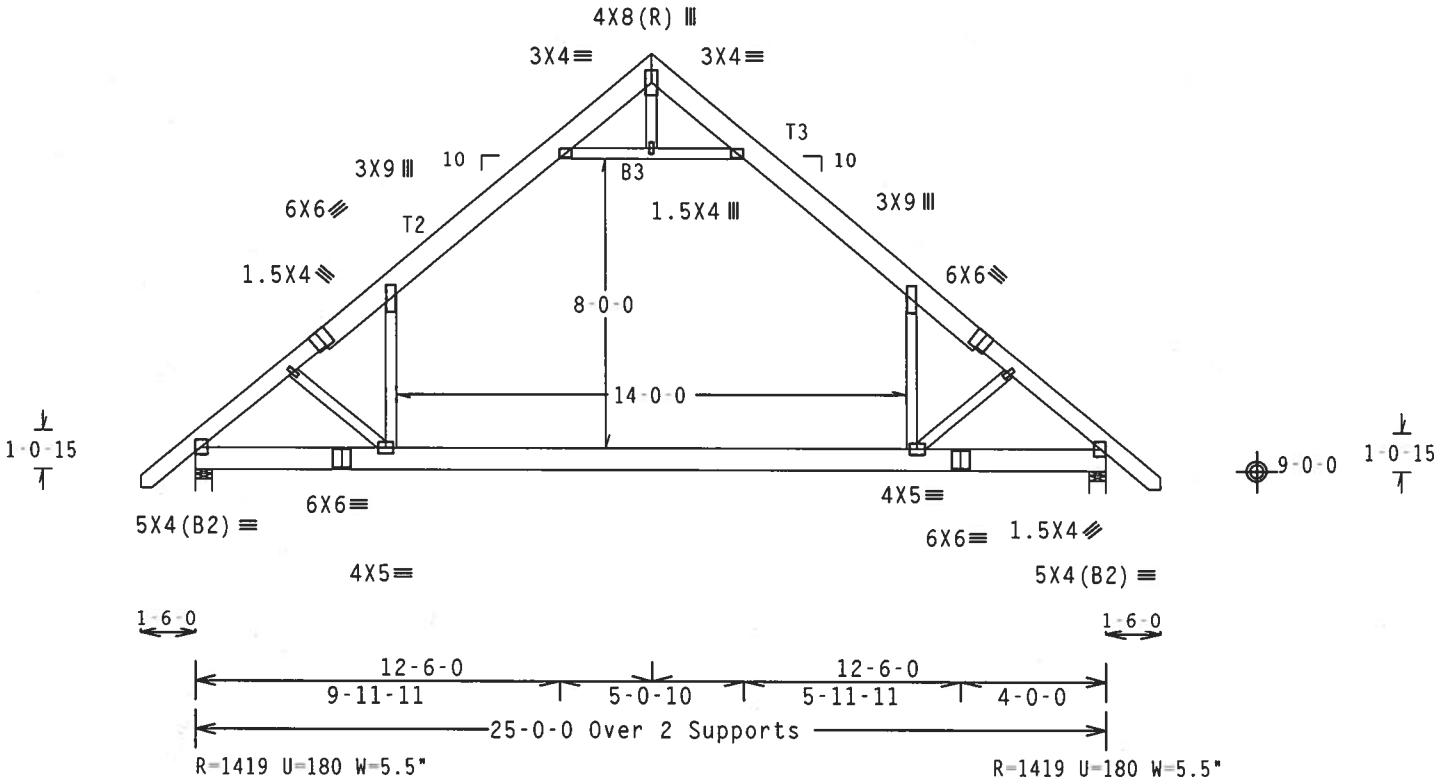
BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 5-6-0 to 19-6-0.

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

Trusses to be spaced at 16.0" OC maximum.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 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) 7.22.1 TY:16 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 18, '06

ALPINE

Alpine Engineered Products, Inc.
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TC LL	20.0 PSF	REF	R487-- 81998
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018061
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25587
DUR.FAC.	1.25	FROM	JP
SPACING	16.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION WHITCOMB - B3G)

Top chord 2x6 SP #2 :T2, T3 2x8 SP SS:
Bot chord 2x8 SP SS :B3 2x4 SP #2 Dense:
Webs 2x4 SP #3

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

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

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

Collar-tie braced with continuous lateral bracing at 24" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 48" OC.

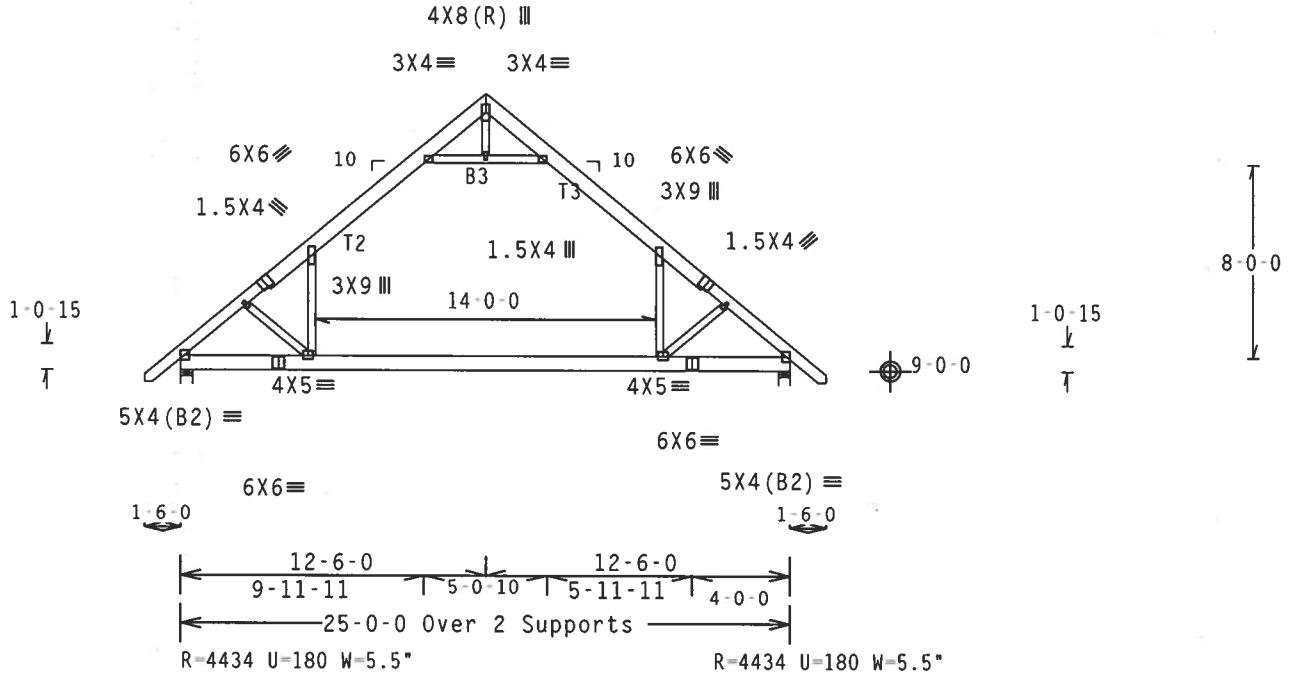
3 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 8.50" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Calculated horizontal deflection is 0.12" due to live load and 0.22" due to dead load.

Trusses to be spaced at 50.0" OC maximum.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 5-6-0 to 19-6-0.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 81999
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018062
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25632
DUR.FAC.	1.25	FROM	JP
SPACING	50.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION WHITCOMB - C1G)

Top chord 2x8 SP SS :T2 2x4 SP #2 Dense:
Bot chord 2x4 SP #2 Dense :B1 2x8 SP SS:
Webs 2x4 SP #3 :W2 2x6 SP #2:

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

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

TC	From	138 PLF	at	-1.50	to	138 PLF at 23.00
PLT	From	42 PLF	at	5.49	to	42 PLF at 10.43
BC	From	11 PLF	at	-1.50	to	11 PLF at 0.00
BC	From	42 PLF	at	0.00	to	42 PLF at 5.21
BC	From	250 PLF	at	5.21	to	250 PLF at 10.52
BC	From	83 PLF	at	10.52	to	83 PLF at 11.06
BC	From	42 PLF	at	11.06	to	42 PLF at 23.00
BC		202 LB Conc. Load at 5.21, 10.83				

Collar-tie braced with continuous lateral bracing at 24" OC.

THE ARCHITECT OR ENGINEER OF RECORD SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS".)

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @10.75" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

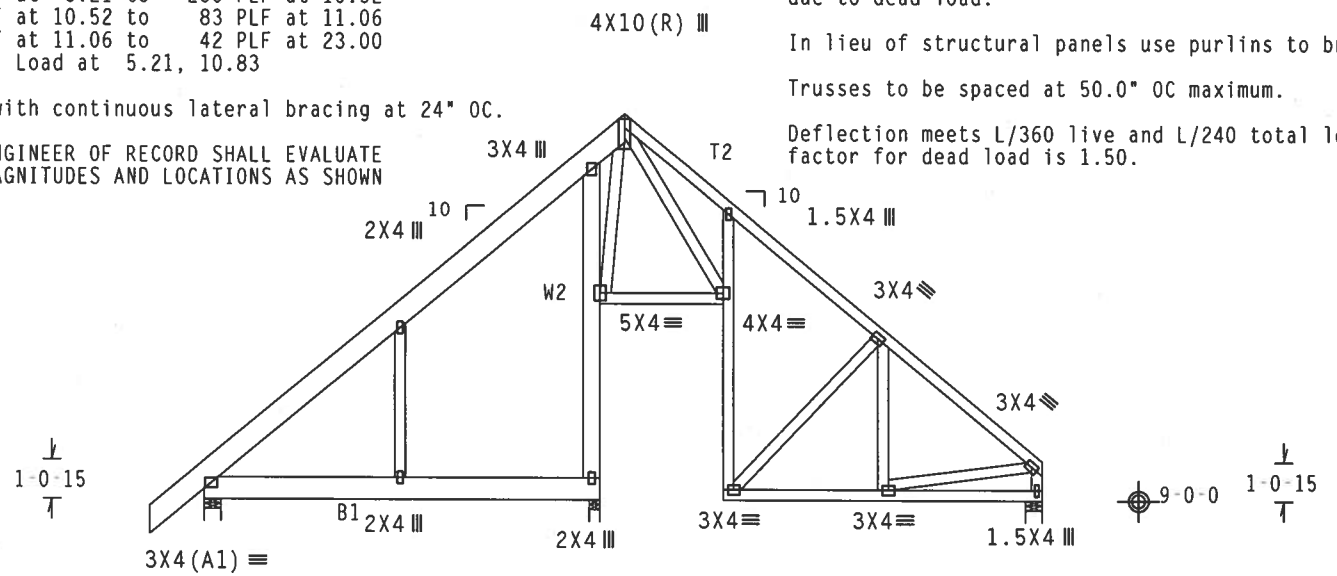
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

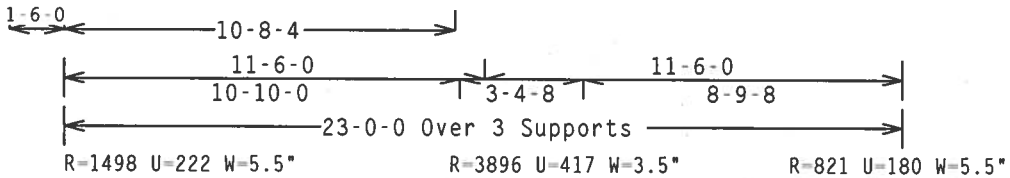
Calculated horizontal deflection is 0.08" due to live load and 0.19" due to dead load.

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

Trusses to be spaced at 50.0" OC maximum.

Deflection meets L/360 live and L/240 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) 7.22.11 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18,'06

TC LL	20.0 PSF	REF	R487-- 82000
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018063
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	77146
DUR.FAC.	1.25	FROM	JP
SPACING	50.0"	JREF-	1STY487_Z02

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

(5-557-ISAAC CONSTRUCTION WHITCOMB - C2)

Top chord 2x8 SP SS :T2 2x4 SP #2 Dense:
Bot chord 2x4 SP #2 Dense :B1 2x8 SP SS:
Webs 2x4 SP #3 :W2, W5 2x4 SP #2 Dense:

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

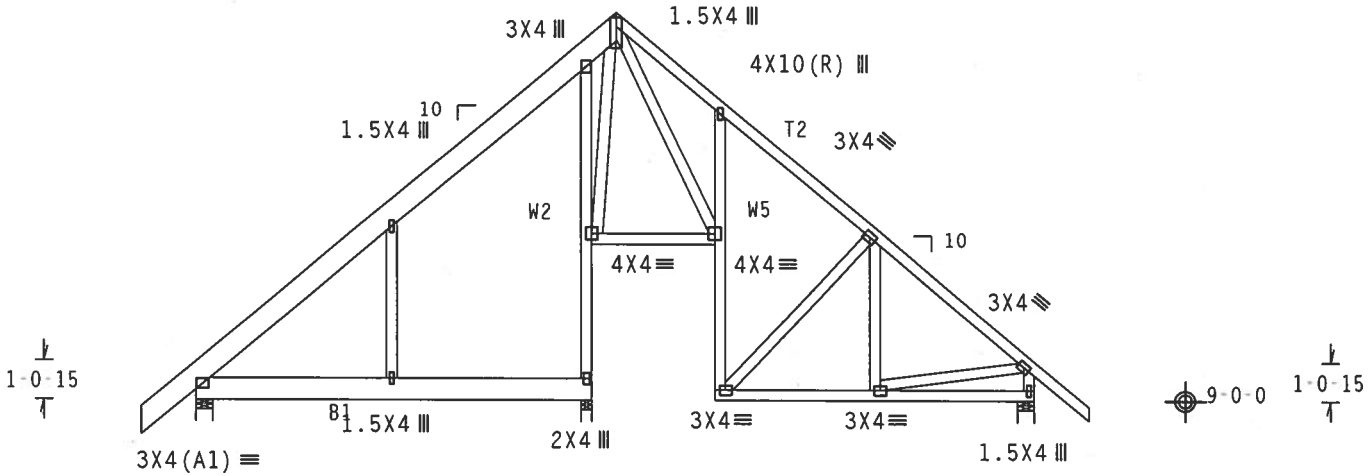
TC - From	66 PLF	at	-1.50	to	66 PLF	at	24.50
PLT- From	20 PLF	at	5.75	to	20 PLF	at	10.32
BC - From	5 PLF	at	-1.50	to	5 PLF	at	0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at	5.31
BC - From	40 PLF	at	5.31	to	40 PLF	at	5.50
BC - From	120 PLF	at	5.50	to	120 PLF	at	10.94
BC - From	100 PLF	at	10.94	to	100 PLF	at	10.96
BC - From	20 PLF	at	10.96	to	20 PLF	at	23.00
BC - From	5 PLF	at	23.00	to	5 PLF	at	24.50
BC -	73 LB Conc. Load at		5.50, 10.83				

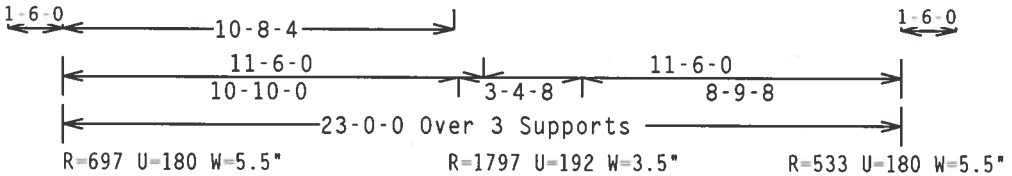
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.07" due to live load and 0.18" due to dead load.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 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) 7.22.11 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82001
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018064
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	77158
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(3-557-ISAAC CONSTRUCTION-WHITCOMB - D1-GE)

Top chord 2x4 SP #2 Dense :T2, T3 2x8 SP SS:
Bot chord 2x4 SP #2 Dense :B1 2x8 SP SS:
Webs 2x4 SP #3 :W2, W4 2x4 SP #2 Dense:

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

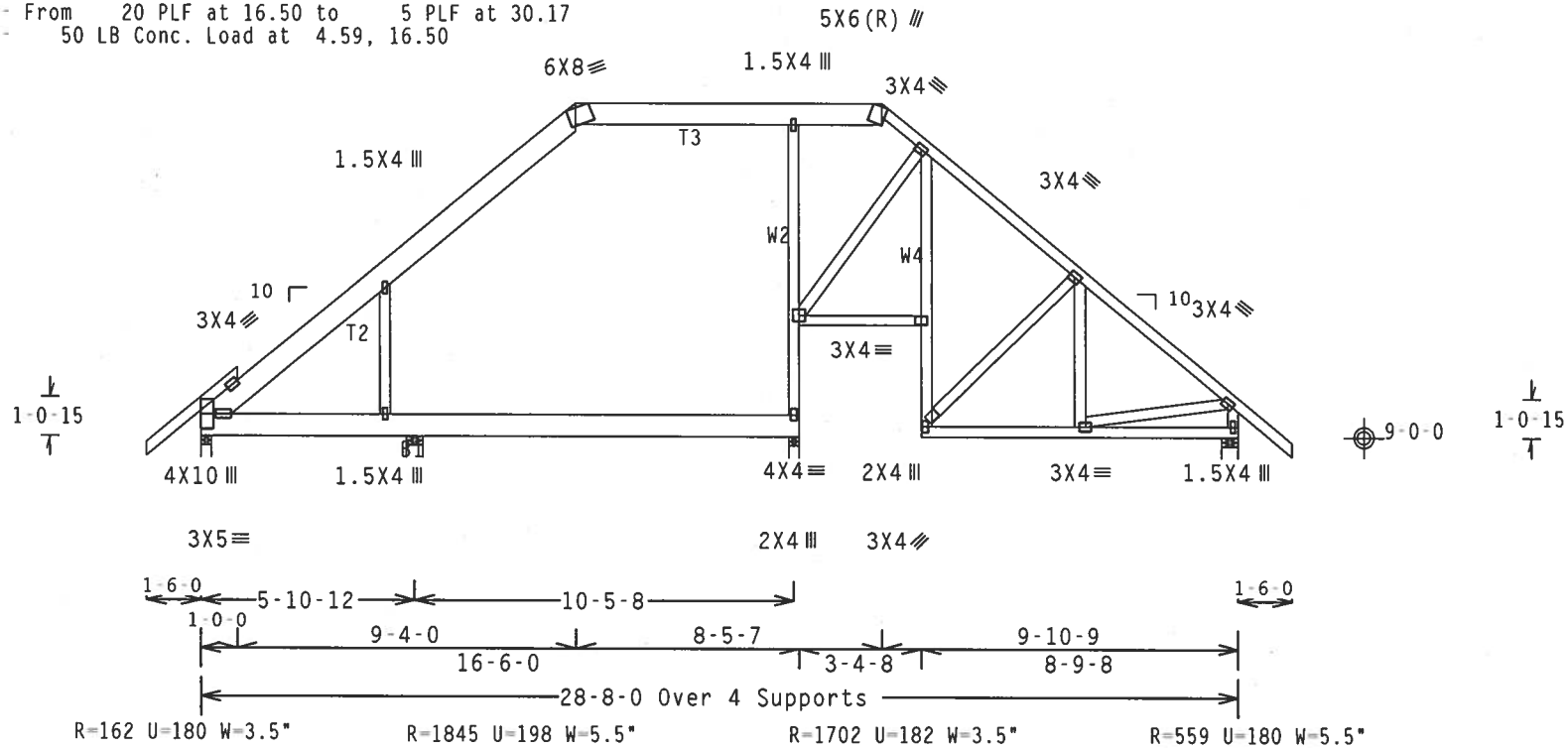
TC - From	66 PLF	at	-1.50	to	66 PLF	at 4.95
TC - From	86 PLF	at	4.95	to	86 PLF	at 5.22
TC - From	107 PLF	at	5.22	to	107 PLF	at 10.15
TC - From	86 PLF	at	10.15	to	86 PLF	at 10.33
TC - From	86 PLF	at	10.33	to	86 PLF	at 10.48
TC - From	66 PLF	at	10.48	to	66 PLF	at 18.79
TC - From	66 PLF	at	18.79	to	66 PLF	at 30.17
PLT- From	20 PLF	at	10.33	to	20 PLF	at 15.91
BC - From	5 PLF	at	-1.50	to	5 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 4.94
BC - From	100 PLF	at	4.94	to	100 PLF	at 5.23
BC - From	120 PLF	at	5.23	to	120 PLF	at 16.50
BC - From	20 PLF	at	16.50	to	5 PLF	at 30.17
BC -	50 LB Conc. Load at 4.59, 16.50					

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

Calculated horizontal deflection is 0.11" due to live load and 0.15" due to dead load.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 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) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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.

ARTHUR R. FISHER LICENSE No 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82002
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018065
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	77013 REV
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - D2)

Top chord 2x8 SP SS :T3 2x4 SP #2 Dense:
Bot chord 2x4 SP #2 Dense :B1 2x8 SP SS:
Webs 2x4 SP #3

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

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

TC - From	66 PLF	at	-1.50	to	66 PLF	at 4.94
TC - From	86 PLF	at	4.94	to	86 PLF	at 10.33
TC - From	86 PLF	at	10.33	to	86 PLF	at 16.21
TC - From	66 PLF	at	16.21	to	66 PLF	at 18.33
TC - From	66 PLF	at	18.33	to	66 PLF	at 30.17
BC - From	5 PLF	at	-1.50	to	5 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 5.23
BC - From	40 PLF	at	5.23	to	40 PLF	at 5.31
BC - From	120 PLF	at	5.31	to	120 PLF	at 16.35
BC - From	40 PLF	at	16.35	to	40 PLF	at 16.50
BC - From	20 PLF	at	16.50	to	20 PLF	at 28.67
BC - From	5 PLF	at	28.67	to	5 PLF	at 30.17

BC - 132 LB Conc. Load at 5.23
BC - 142 LB Conc. Load at 16.50

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

2 COMPLETE TRUSSES REQUIRED

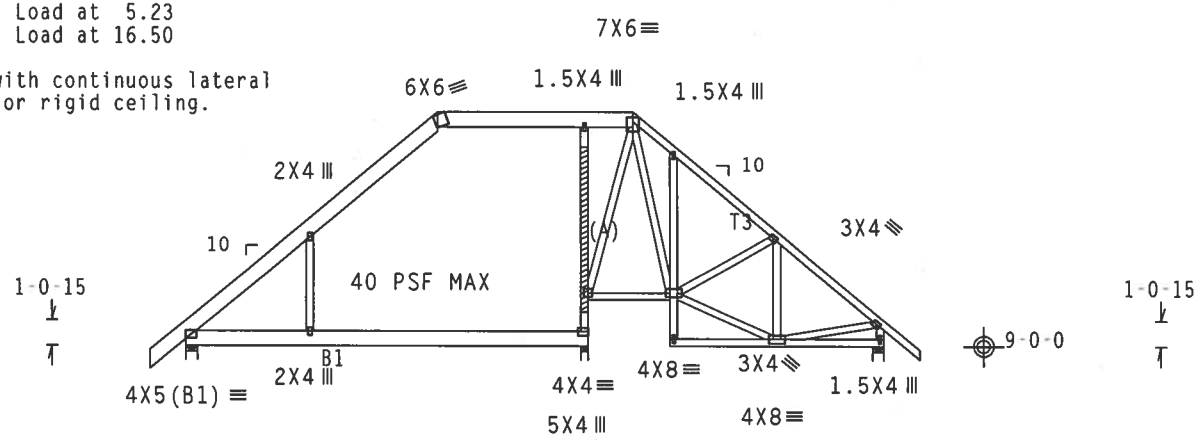
Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

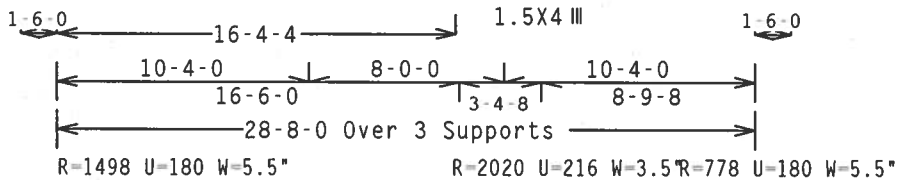
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Calculated horizontal deflection is 0.19" due to live load and 0.35" due to dead load.

(A) (2) SP #3 or better scab braces. Same size & 80% length of web member. Attach one to each face w/10d Box or Gun (0.128"x3",min.)nails @ 6" OC.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



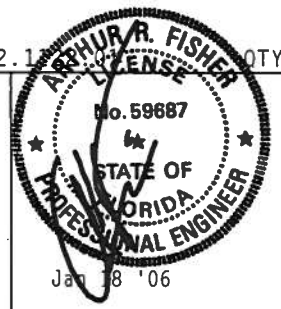


Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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.



Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82003
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018066
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	77047
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION WHITCOMB - 03)

Top chord 2x8 SP SS :T3 2x4 SP #2 Dense:
Bot chord 2x4 SP #2 Dense :B1 2x8 SP SS:
Webs 2x4 SP #3

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

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

TC - From	66 PLF	at	-1.50	to	66 PLF	at 4.94
TC - From	86 PLF	at	4.94	to	86 PLF	at 10.33
TC - From	86 PLF	at	10.33	to	86 PLF	at 16.21
TC - From	66 PLF	at	16.21	to	66 PLF	at 18.33
TC - From	66 PLF	at	18.33	to	66 PLF	at 30.17
BC - From	5 PLF	at	-1.50	to	5 PLF	at 0.00
BC - From	20 PLF	at	0.00	to	20 PLF	at 5.23
BC - From	40 PLF	at	5.23	to	40 PLF	at 5.31
BC - From	120 PLF	at	5.31	to	120 PLF	at 16.35
BC - From	40 PLF	at	16.35	to	40 PLF	at 16.50
BC - From	20 PLF	at	16.50	to	20 PLF	at 28.67
BC - From	5 PLF	at	28.67	to	5 PLF	at 30.17
BC -	132 LB Conc. Load at 5.23					
BC -	142 LB Conc. Load at 16.50					

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25"._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.

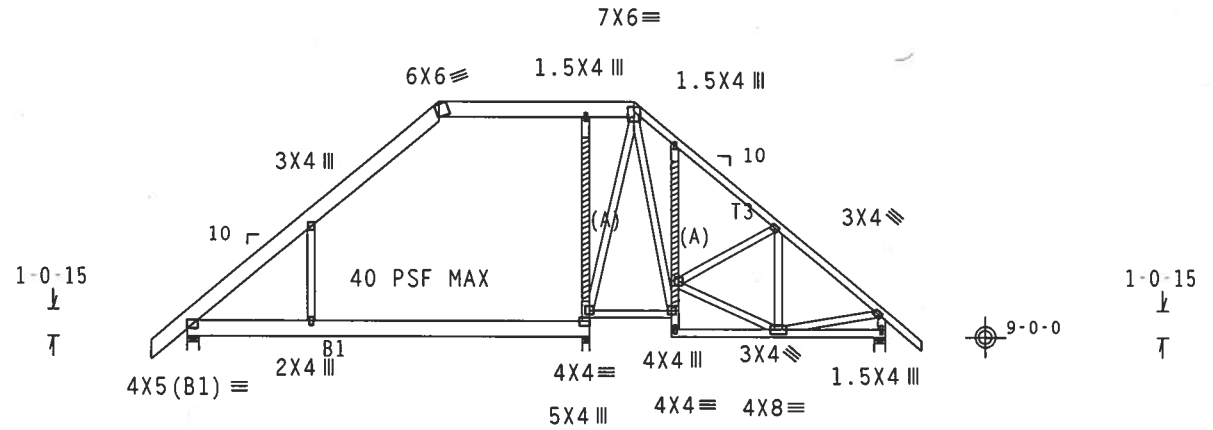
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

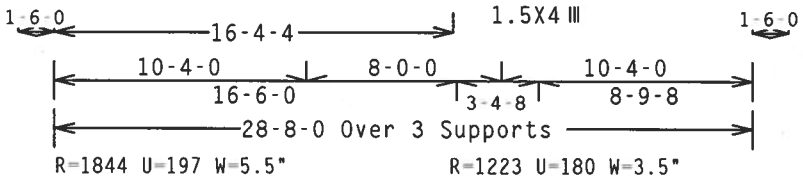
Calculated horizontal deflection is 0.14" due to live load and 0.27" due to dead load.

(A) (2) SP #3 or better scab braces. Same size & 80% length of web member. Attach one to each face w/10d Box or Gun (0.128"x3".min.)nails @ 6" OC.

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.





R=1844 U=197 W=5.5"
R=1223 U=180 W=3.5"
R=1235 U=180 W=5.5"

Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cg/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/-
Scale =.125"/Ft.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND 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 (I) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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

TC LL	20.0 PSF	REF	R487-- 82004
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018067
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	77063
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - D4)

Top chord 2x8 SP SS :T3 2x4 SP #2 Dense:
Bot chord 2x8 SP SS
Webs 2x4 SP #3
:Rt Slider 2x4 SP #3: BLOCK LENGTH = 1.694'

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

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

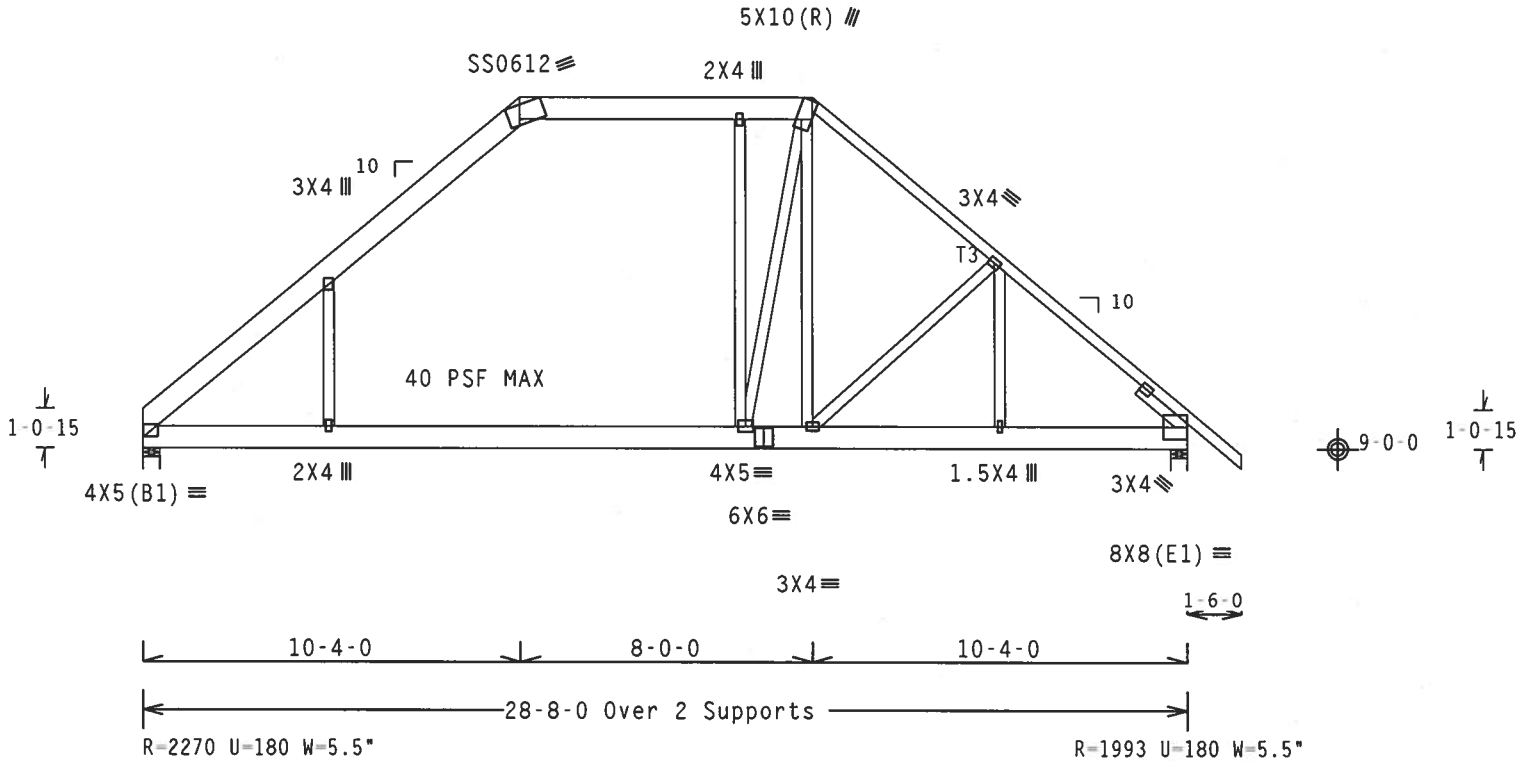
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_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.

Collar tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 5-2-12 to 16-2-8.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. 18 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:2 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

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ARTHUR R. FISHER
LICENSE
No. 59667
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82005
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018068
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	77100
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - D5G)

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
Webs 2x4 SP #3 :W2 2x4 SP #2 Dense:
:Rt Slider 2x6 SP #2: BLOCK LENGTH = 1.640'

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 66 PLF at 0.00 to 66 PLF at 30.17
BC - From 20 PLF at 0.00 to 5 PLF at 30.17
BC - 1099 LB Conc. Load at 1.60, 3.60, 5.60, 7.60, 9.60
11.60
BC - 1182 LB Conc. Load at 13.60
BC - 1186 LB Conc. Load at 15.60, 17.60, 19.60, 21.60
BC - 2763 LB Conc. Load at 23.60

Left end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

THE ARCHITECT OR ENGINEER OF RECORD SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS".)

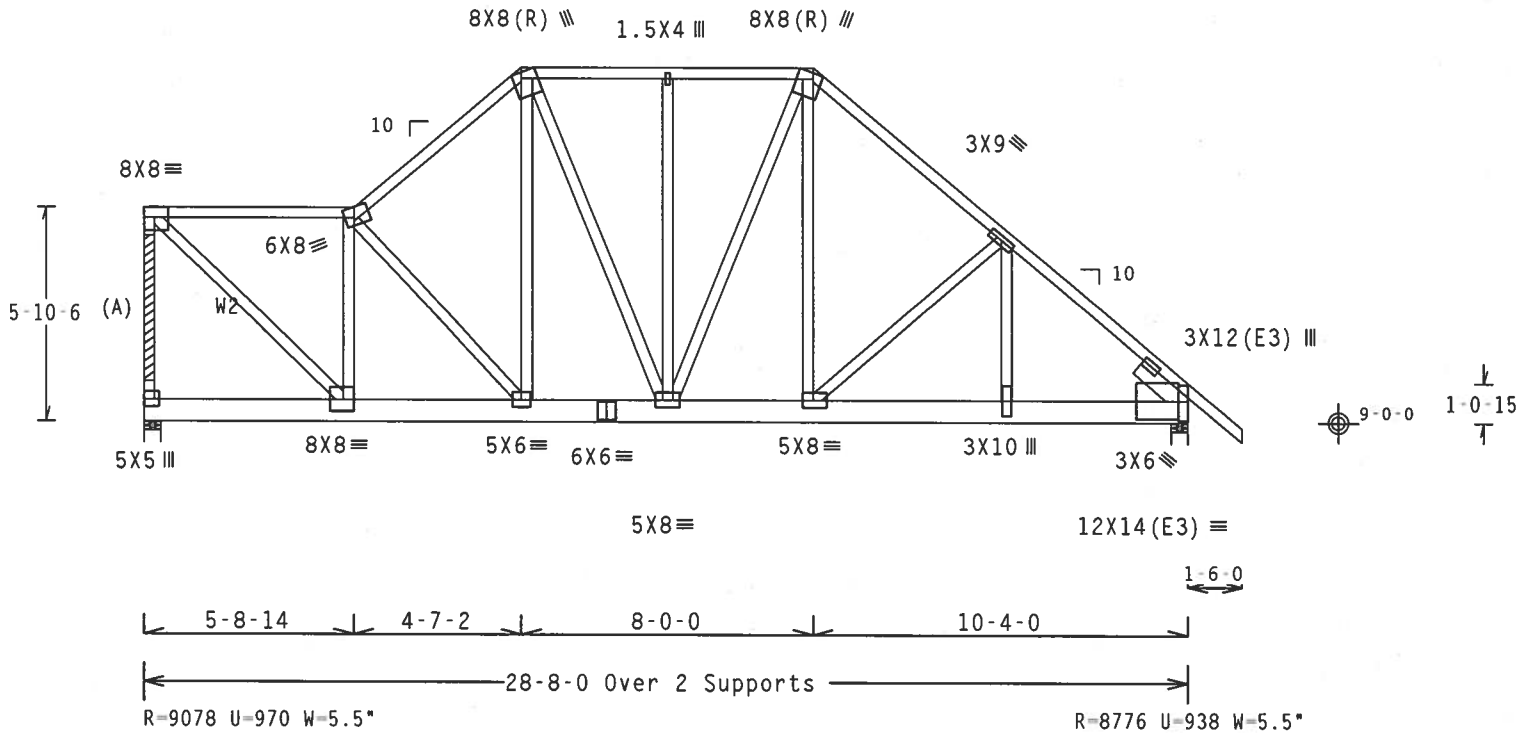
2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 3.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Max JT VERT DEFL: LL: 0.14" DL: 0.21" recommended camber 3/8"

(A) SP #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" OC.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 TY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

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

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82006
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018069
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	77119
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - EJA)

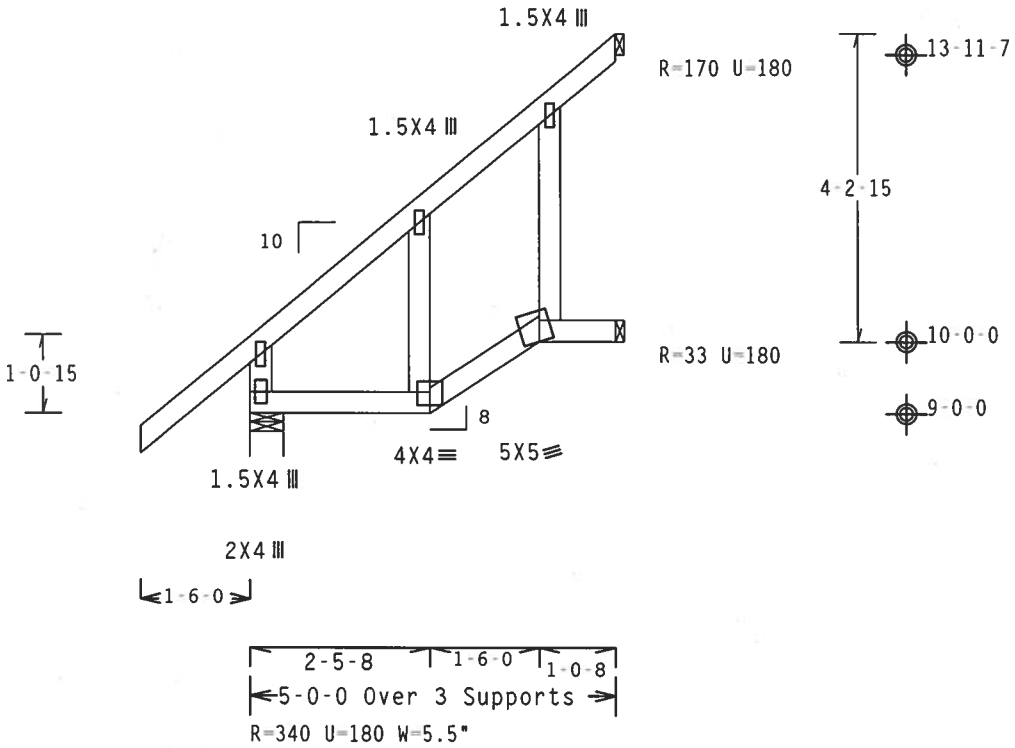
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

Fasten rated sheathing to one face of this frame.

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) 7.22.11 [illegible]Y:5 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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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82007
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018070
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25255
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - J3A)

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

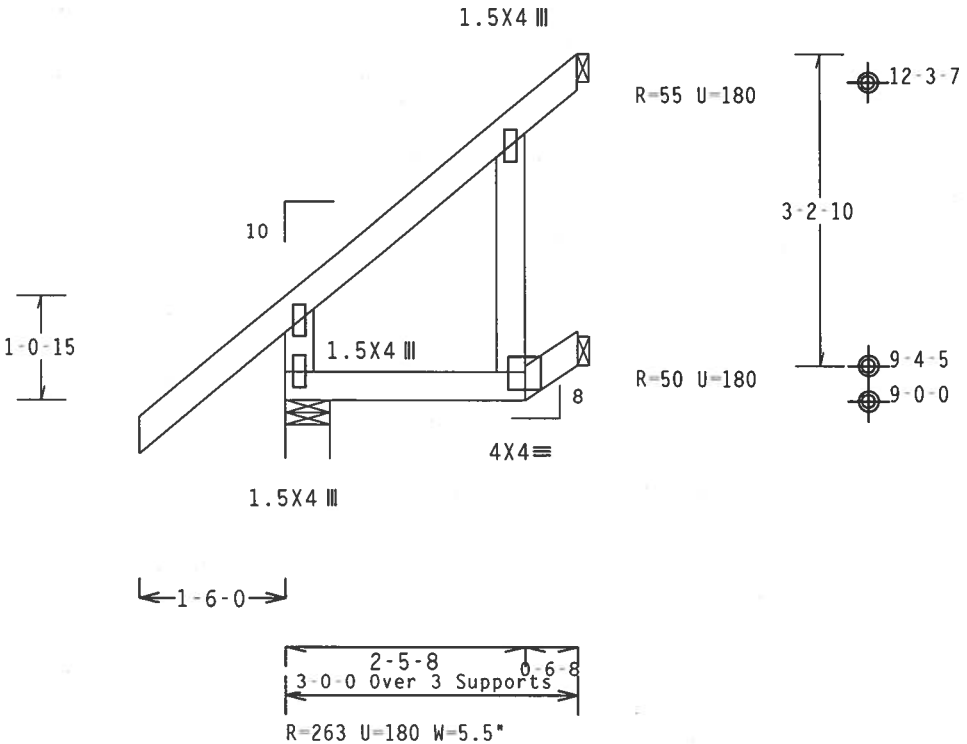
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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

Fasten rated sheathing to one face of this frame.

Shim all supports to solid bearing.



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

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

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ARTHUR R. FISHER LICENSE No.59887 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82008
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018071
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25249
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

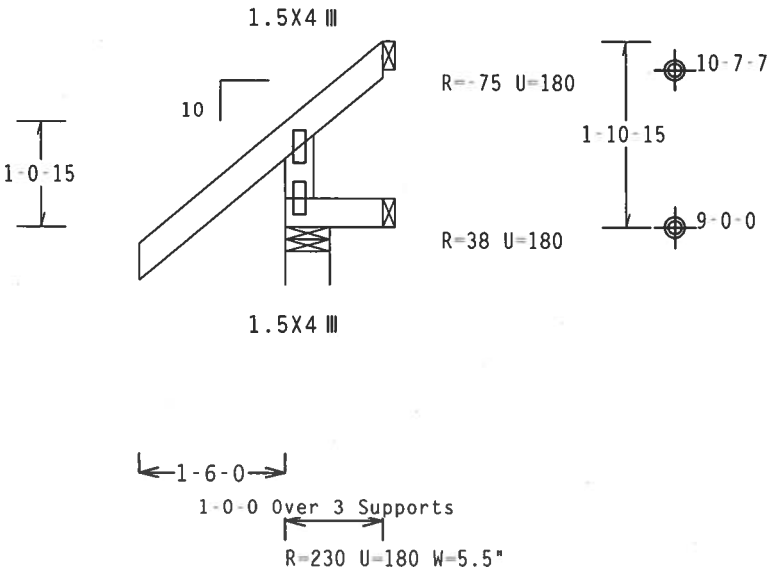
(5-557-ISAAC CONSTRUCTION-WHITCOMB - J1A)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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) 7.22.1 TY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82009
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018072
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25242
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - EJ5A)

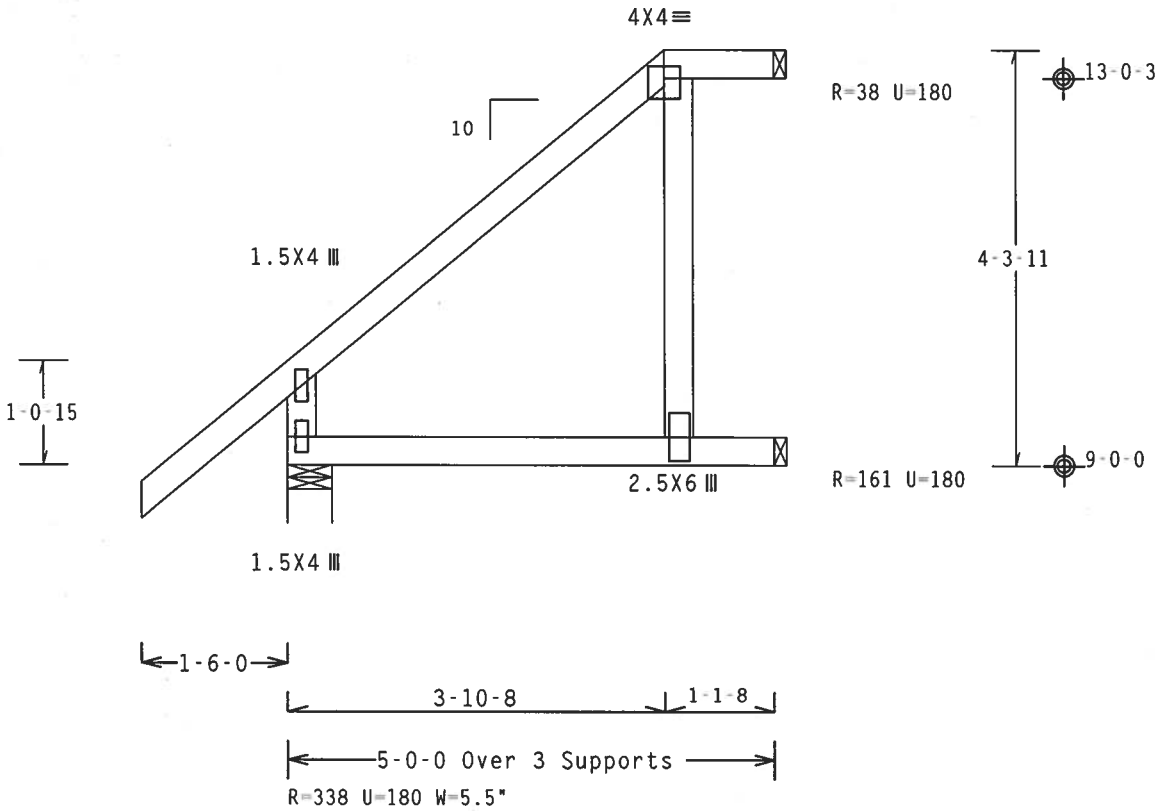
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

Fasten rated sheathing to one face of this frame.

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) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82010
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018073
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25170
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

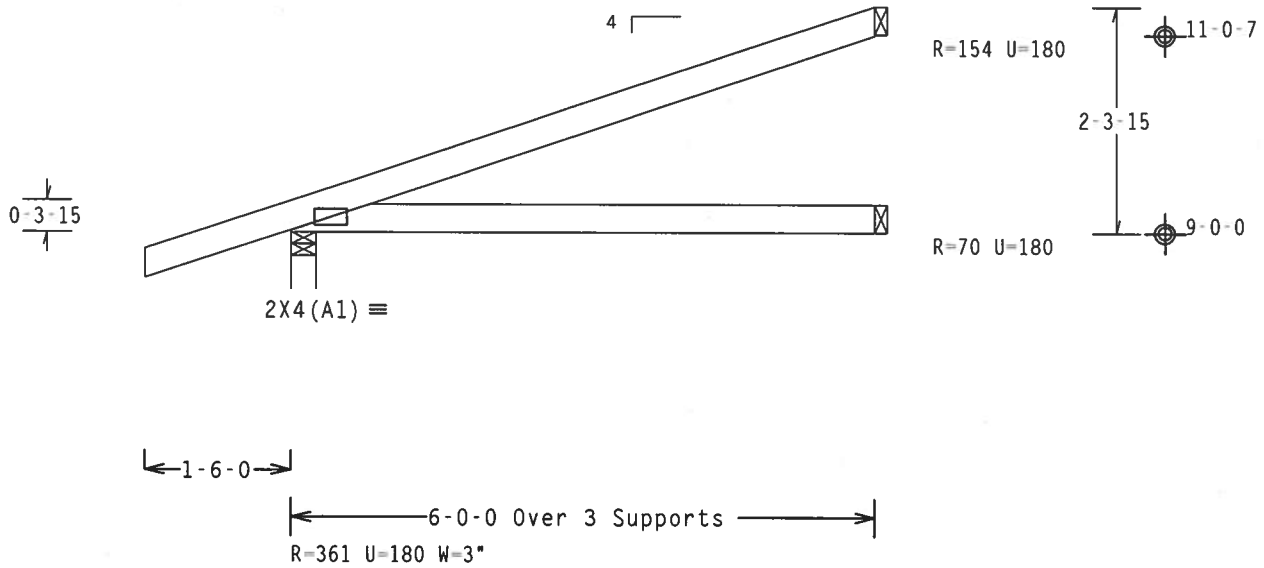
(5-557-ISAAC CONSTRUCTION-WHITCOMB - E06K)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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) 7.22.1 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

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TC LL	20.0 PSF	REF	R487-- 82011
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018074
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25173
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - HJ7K)

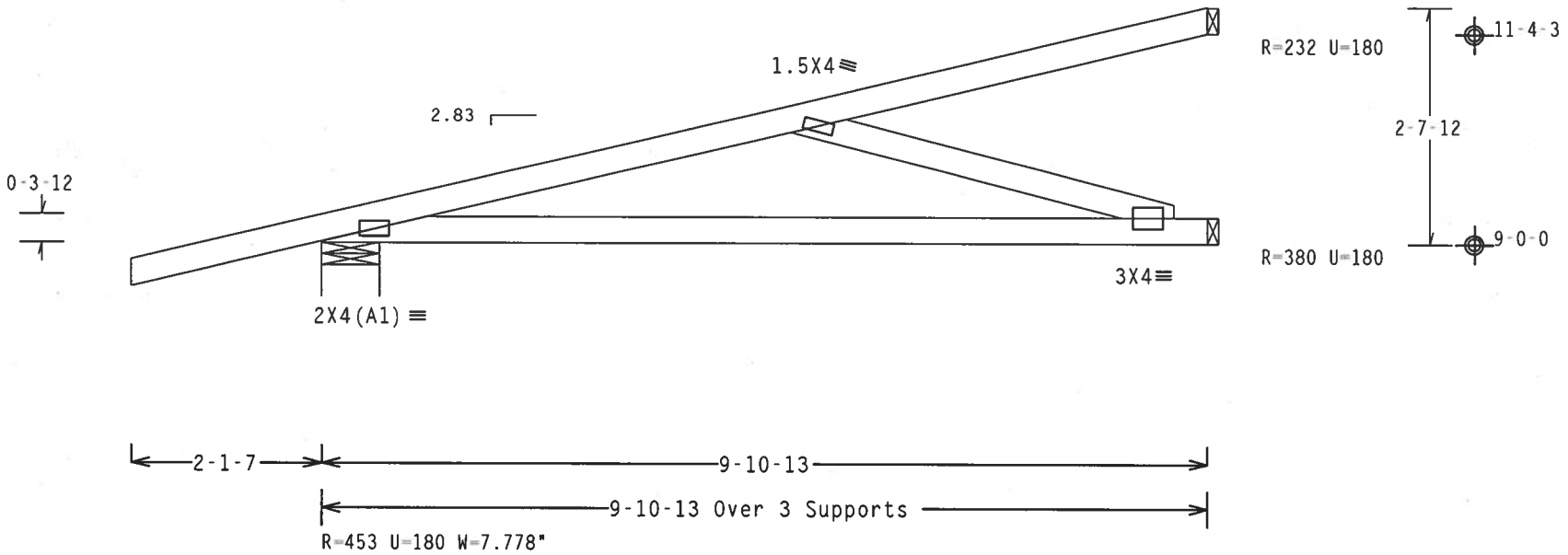
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

Provide (2) 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 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. 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) 7.22.11 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82012
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018075
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25228
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - HJ6K)

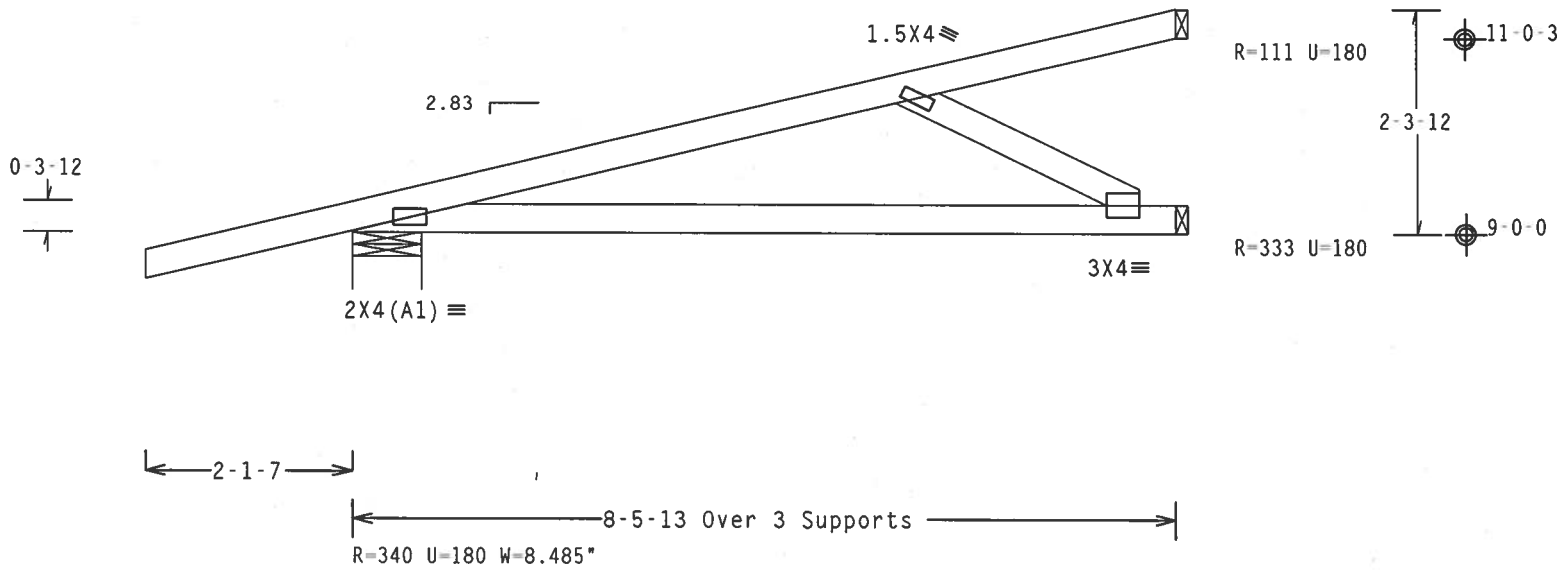
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Hipjack supports 6-0-0 setback jacks with no webs.

Provide (2) 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 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. 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) 7.22.1 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82013
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018076
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25190
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

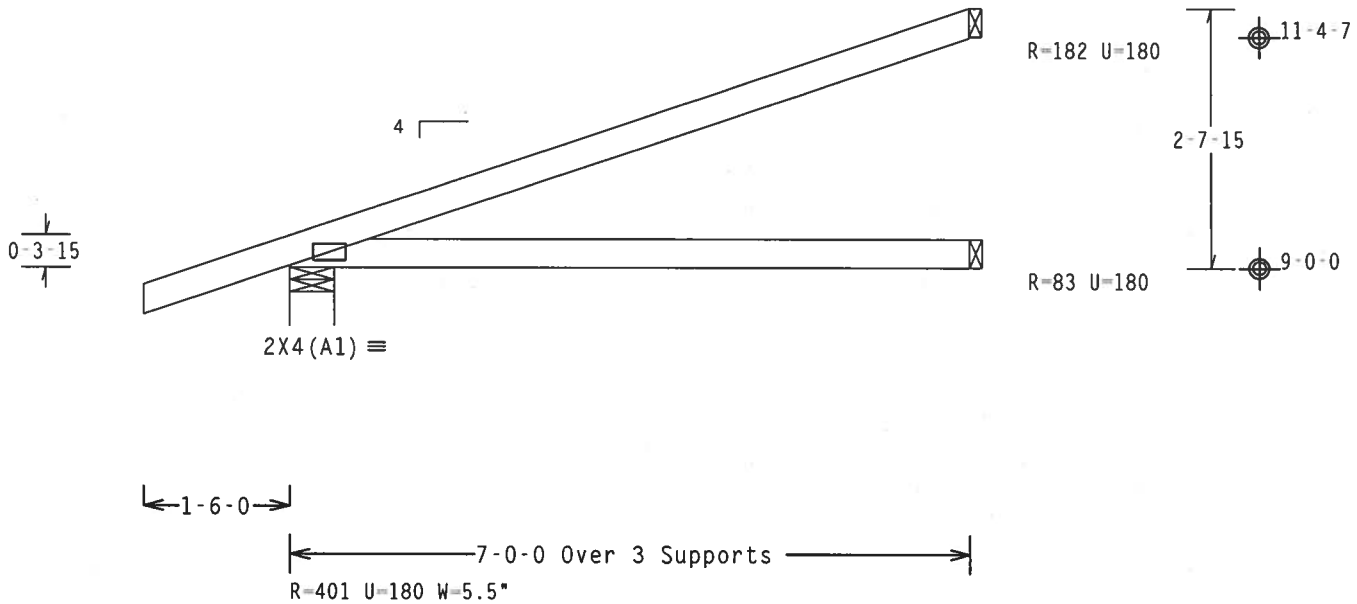
(5-557-ISAAC CONSTRUCTION WHITCOMB - EJ7K)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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
Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:4 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

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

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ARTHUR B. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82014
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018077
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25220
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

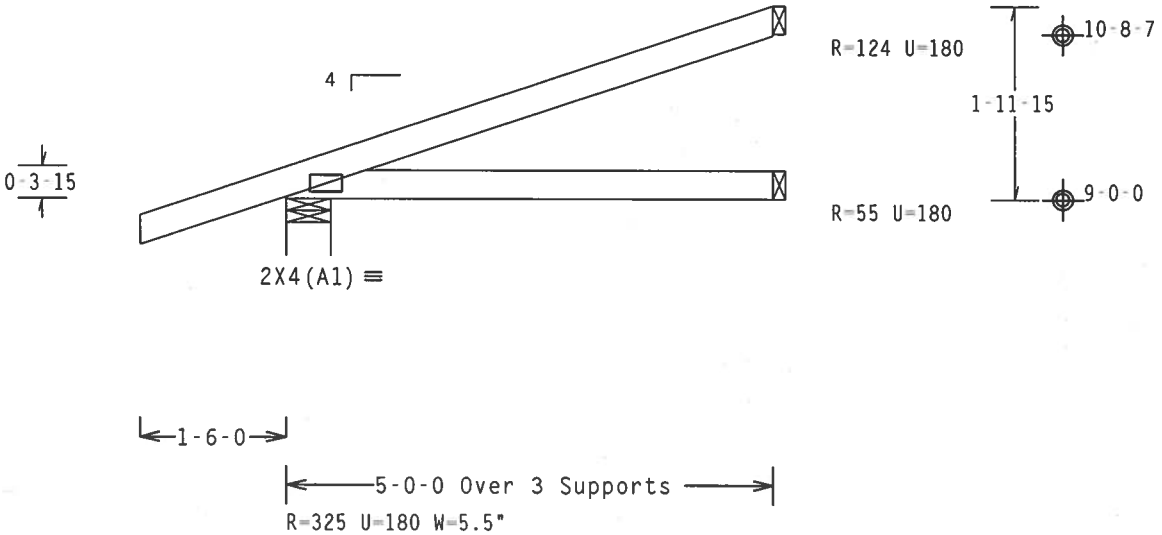
(5-557-ISAAC CONSTRUCTION WHITCOMB - 05K)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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

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

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18, 06

TC LL	20.0 PSF	REF	R487-- 82015
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018078
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25176
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

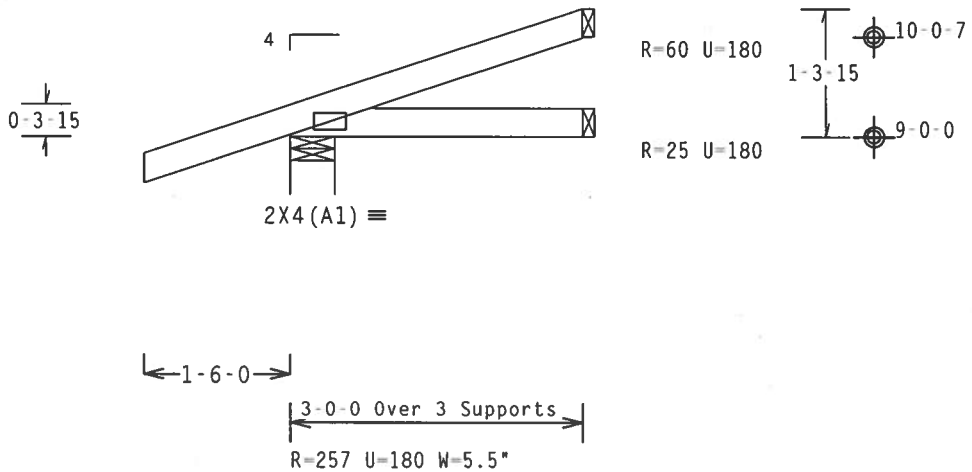
(5-557-ISAAC CONSTRUCTION wh1(COMB - 03K)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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

ALPINE
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ARTHUR R. FISHER LICENSE No. 38687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18, 06

TC LL	20.0 PSF	REF	R487-- 82016
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018079
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25180
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - J1K)

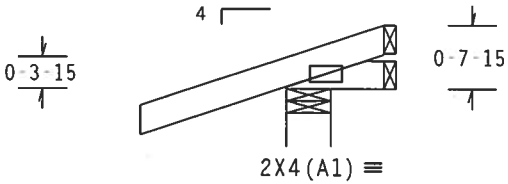
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

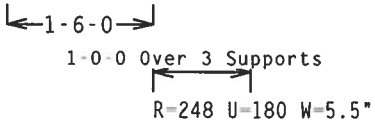
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

R=-52 U=180



9-4-7
9-0-0

R=-18 U=180



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.22.11 QTY:4 FL/-/4/-/-/R/- Scale =.5"/Ft.

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ARTHUR R. FISHER LICENSE NO. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAN 18 '06

TC LL	20.0 PSF	REF R487-- 82017
TC DL	10.0 PSF	DATE 01/18/06
BC DL	10.0 PSF	DRW HCUSR487 06018080
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 25182
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - EJ5)

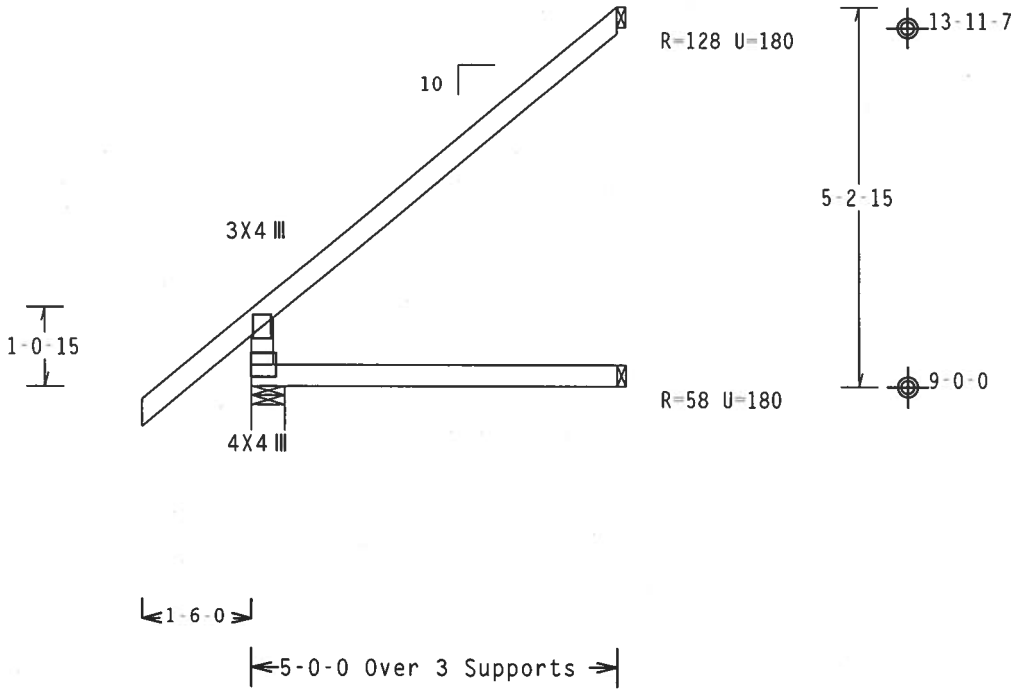
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Dead loads are stated on projected horizontal area basis.

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

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

Deflection meets L/360 live and L/240 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) 7.22.11 [illegible]TY:15 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82018
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018046
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	77005
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - HJ5)

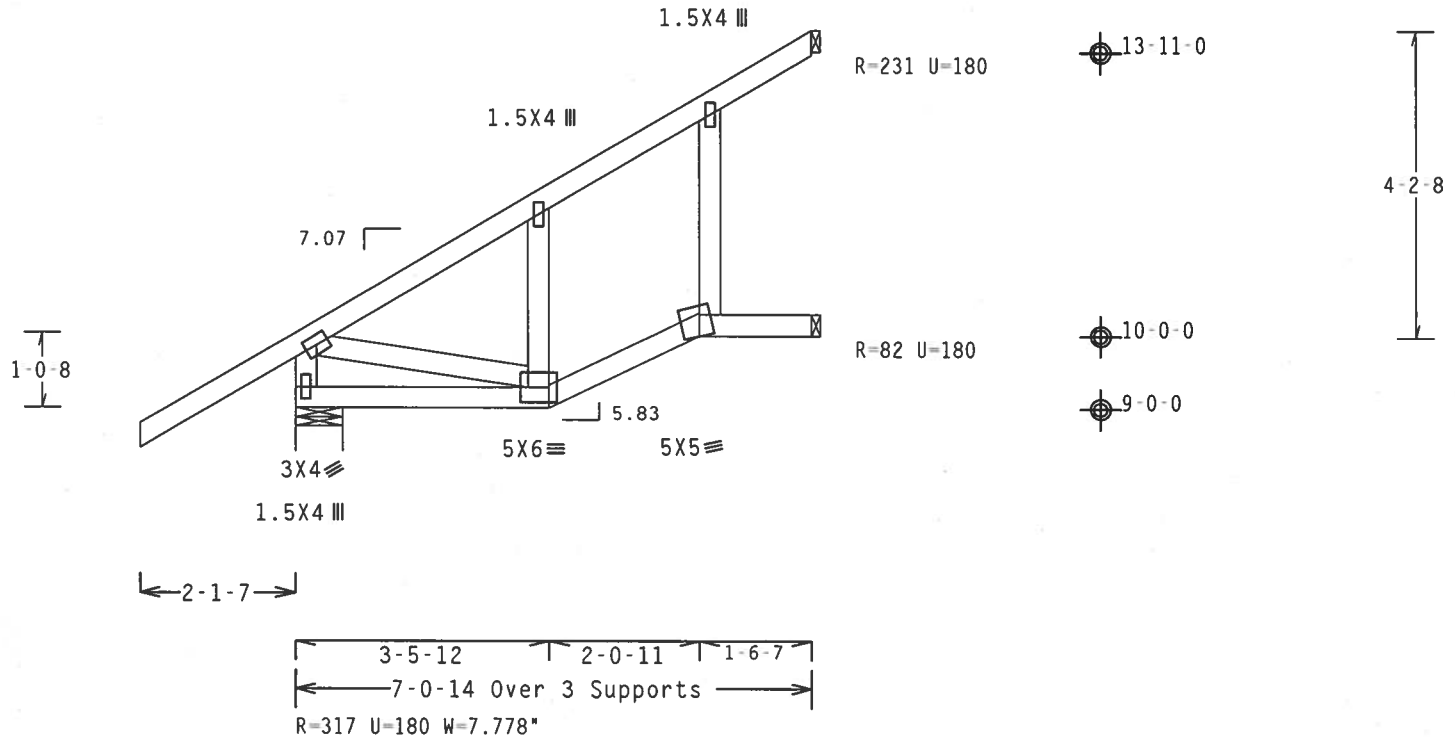
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Hipjack supports 5-0-0 setback jacks with no webs.

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

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

Deflection meets L/360 live and L/240 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) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.375"/Ft.

ALPINE
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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82019
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018081
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25262
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-1SAAC CONSTRUCTION-WHITCOMB - R1)

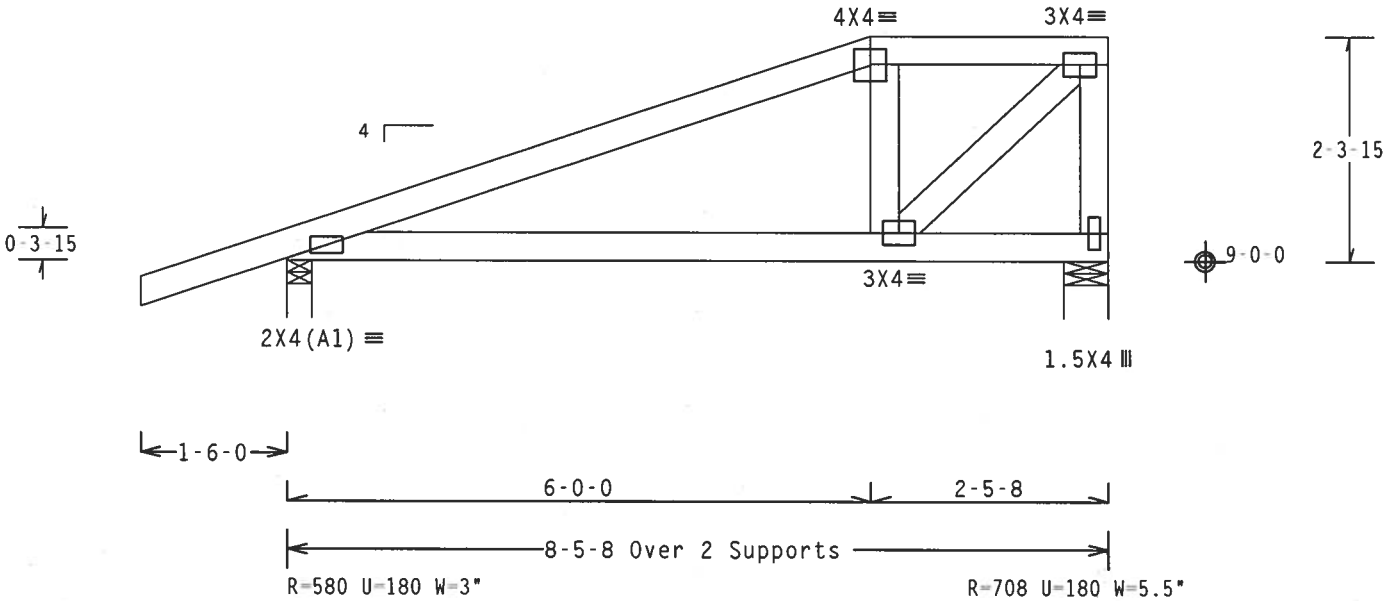
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

#1 hip supports 6-0-0 jacks with no webs.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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) 7.22.11 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 19 '06

ALPINE
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TC LL	20.0 PSF	REF	R487-- 82020
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018082
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25198
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

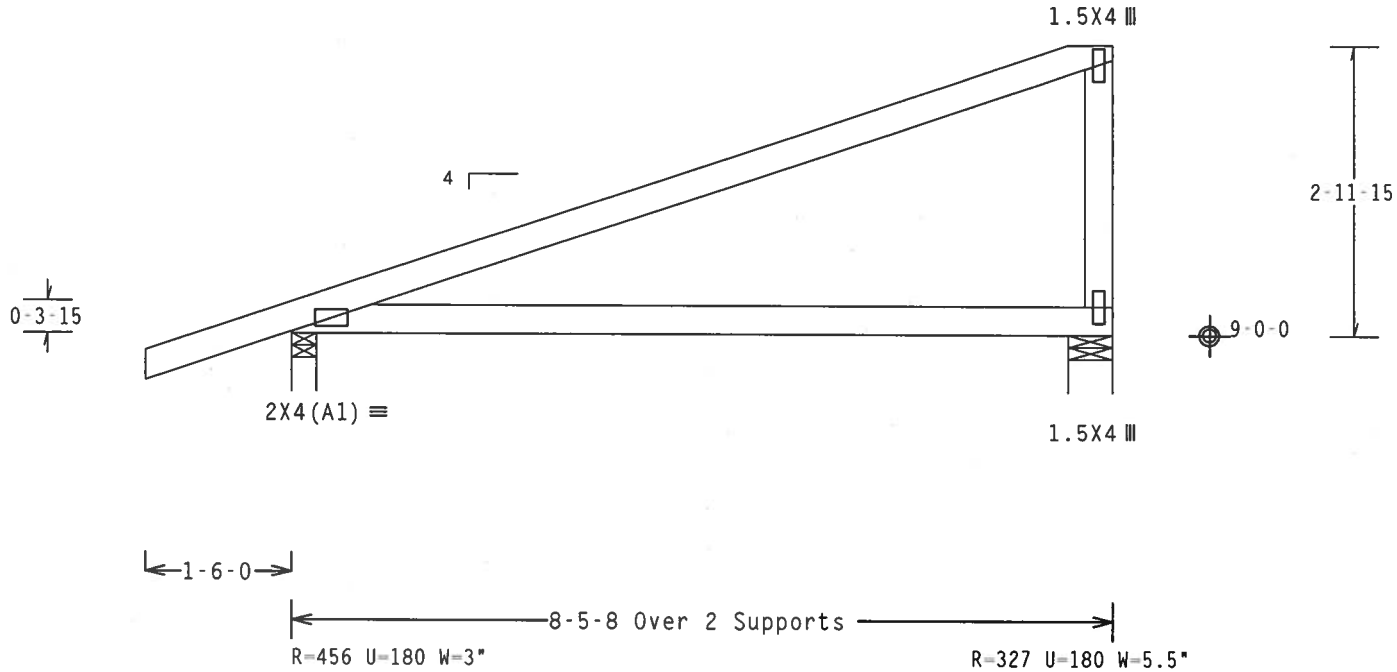
(5-557-ISAAC CONSTRUCTION-WHITCOMB - K2)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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) 7.22.11 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82021
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018083
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25205
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

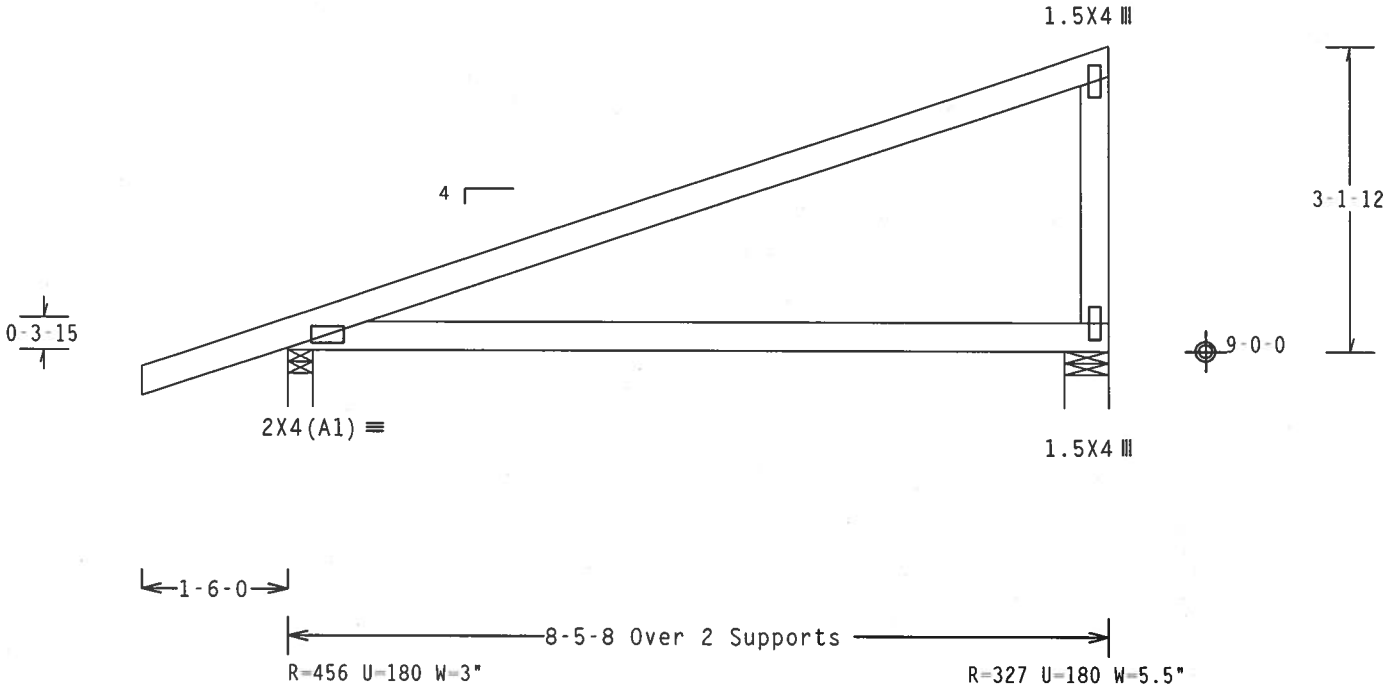
(5-557-ISAAC CONSTRUCTION WHITCOMB - R3)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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) 7.22.11 QTY:2 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82022
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018047
BC LL	0.0 PSF		HC-ENG JB/AF *
TOT.LD.	40.0 PSF	SEQN-	25211
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

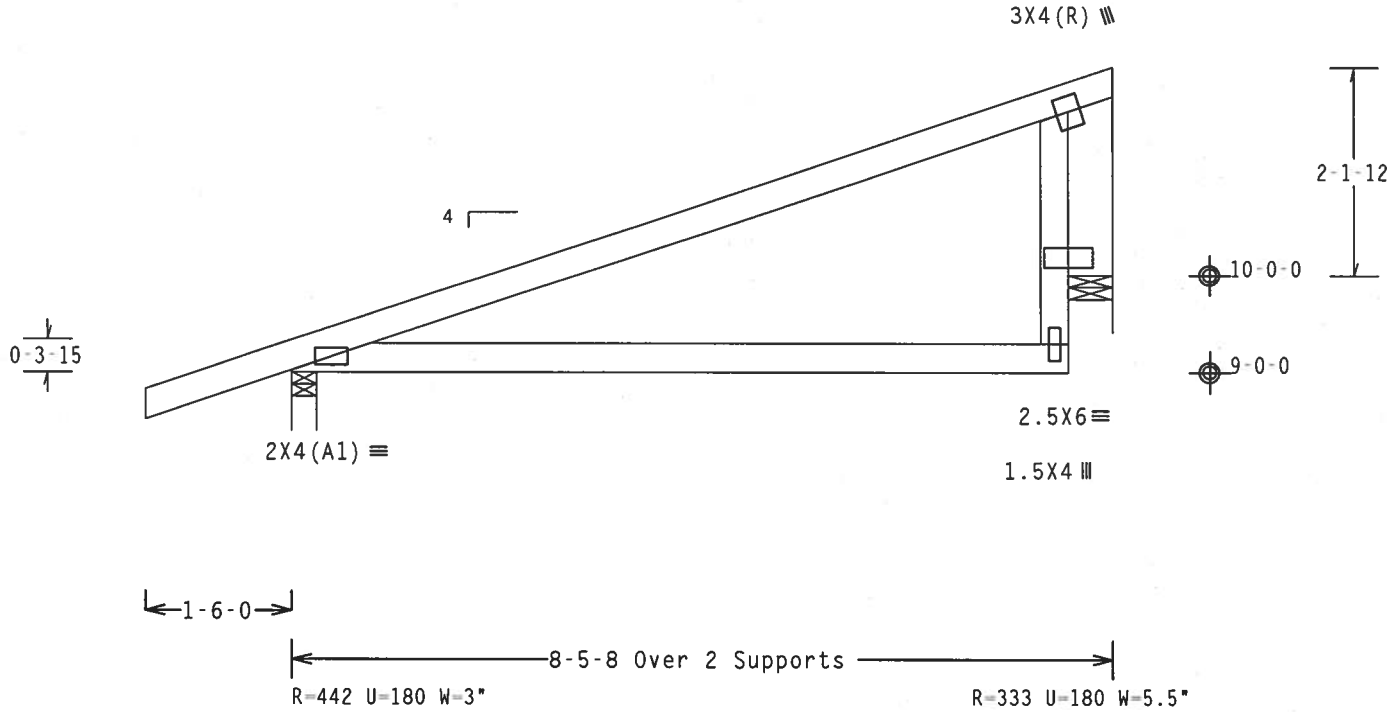
(5-557-ISAAC CONSTRUCTION-WHITCOMB - R4)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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

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) 7.22.1 QTY:9 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

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

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82023
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018084
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25217
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - R5)

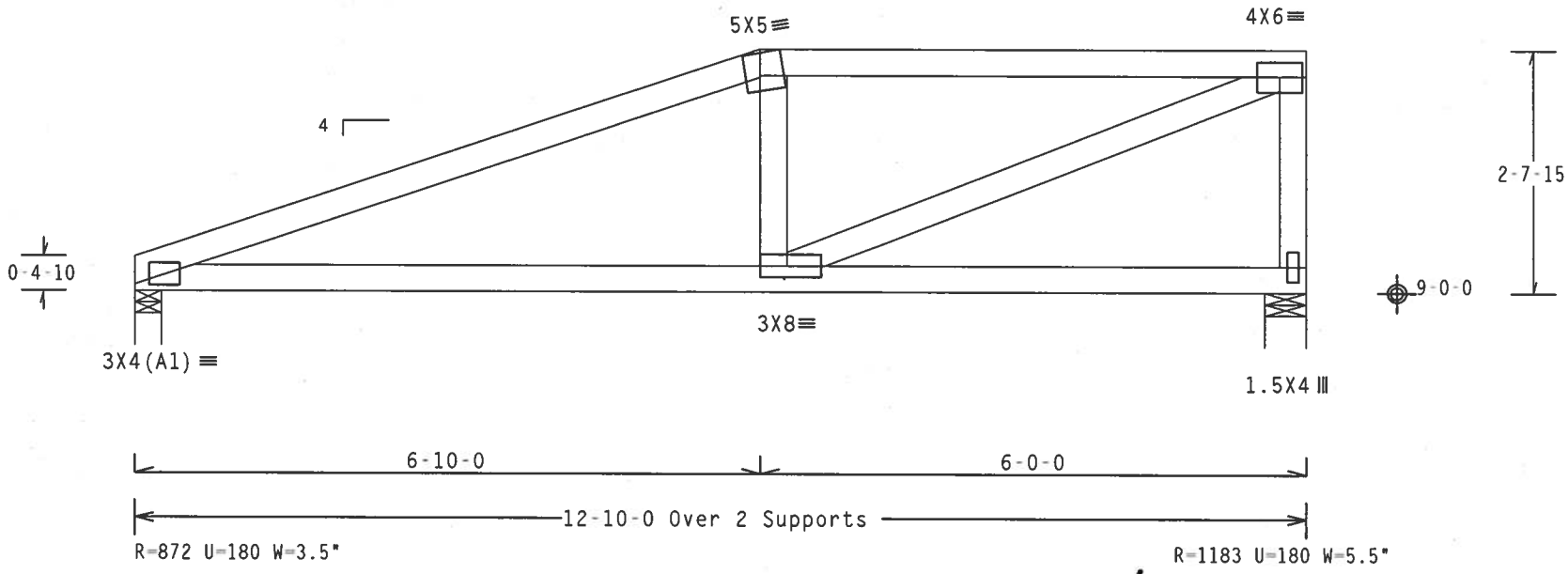
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 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) 7.22.11 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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

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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF R487-- 82024
TC DL	10.0 PSF	DATE 01/18/06
BC DL	10.0 PSF	DRW HCUSR487 06018085
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 25234
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - R6G)

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

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

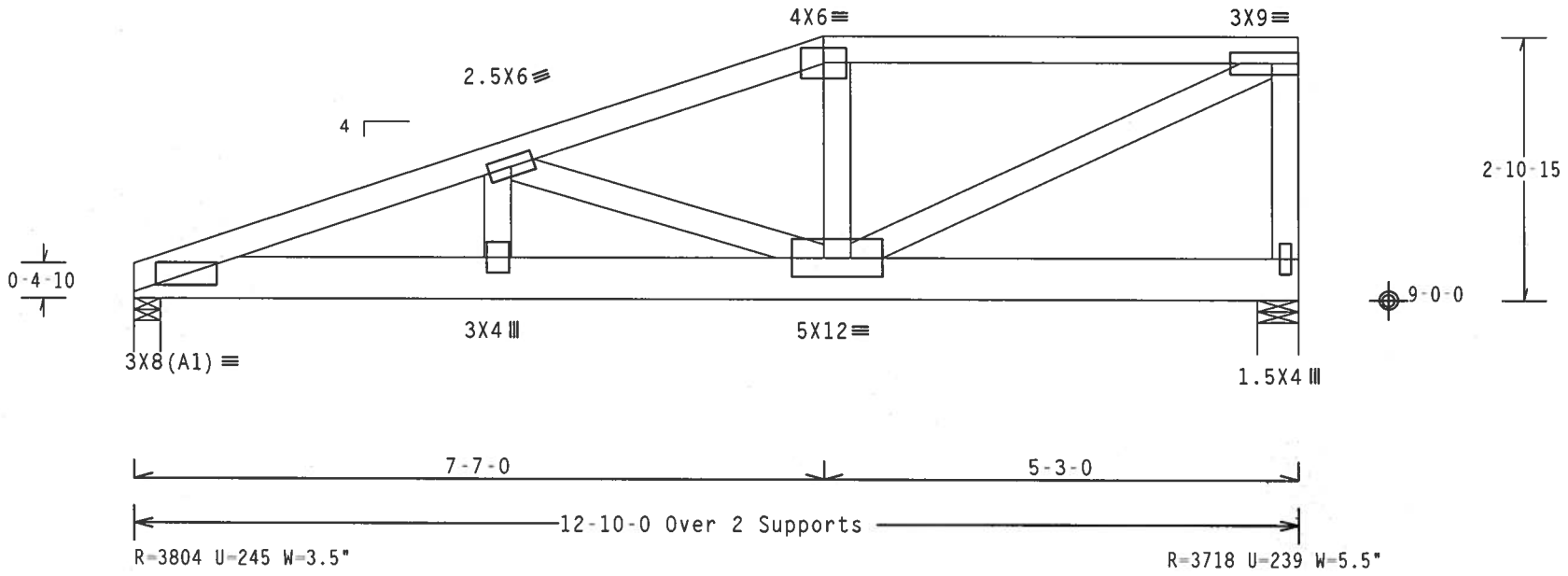
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 7.25" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Right end vertical not exposed to wind pressure.

Girder supports 25-6-8 span to BC one face and 2-0-0 span to TC/BC split opposite face.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.11 TY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
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ARTHUR R FISHER LICENSE No.55687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jul 28 '06

TC LL	20.0 PSF	REF R487-- 82025
TC DL	10.0 PSF	DATE 01/18/06
BC DL	10.0 PSF	DRW HCUSR487 06018086
BC LL	0.0 PSF	HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN- 25296
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1STY487_Z02

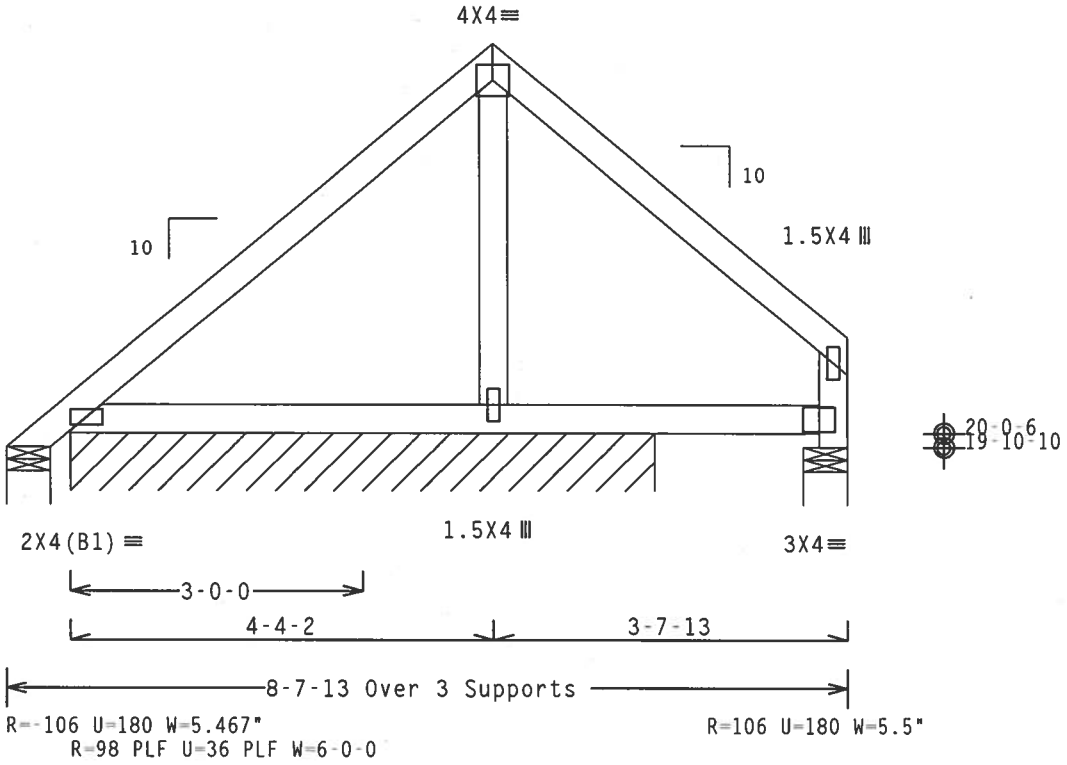
(5-557-ISAAC CONSTRUCTION-WHITCOMB - AP1)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.97 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.22.1 [illegible] FY:5 FL/-/4/-/-/R/- Scale =.5"/Ft.

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Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82026
TC DL	10.0 PSF	DATE	01/18/06
BC DL	2.0 PSF	DRW	HCUSR487 06018087
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	32.0 PSF	SEQN-	77183
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

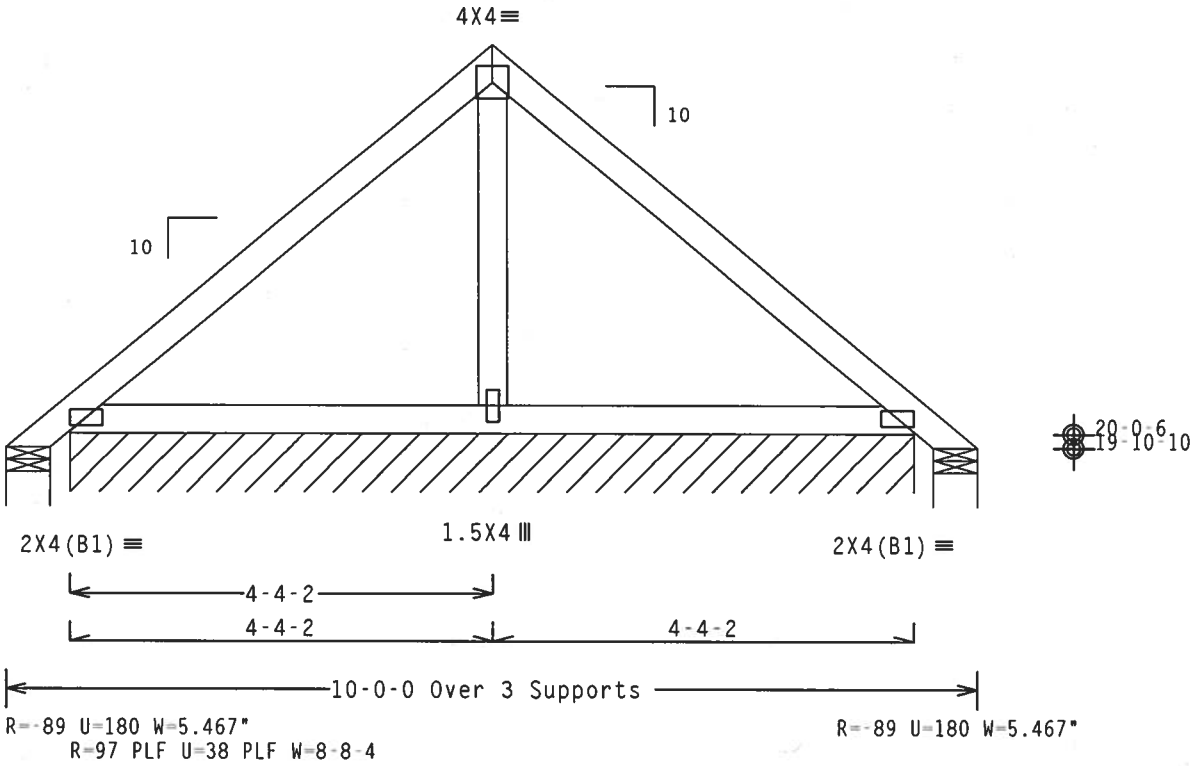
(5-557-ISAAC CONSTRUCTION-WHITCOMB - AP2)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

110 mph wind, 21.97 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.22.1 TY:21 FL/-/4/-/-/R/-
Scale =.5"/Ft.

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Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82027
TC DL	10.0 PSF	DATE	01/18/06
BC DL	2.0 PSF	DRW	HCUSR487 06018088
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	32.0 PSF	SEQN-	25282
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - DP1)

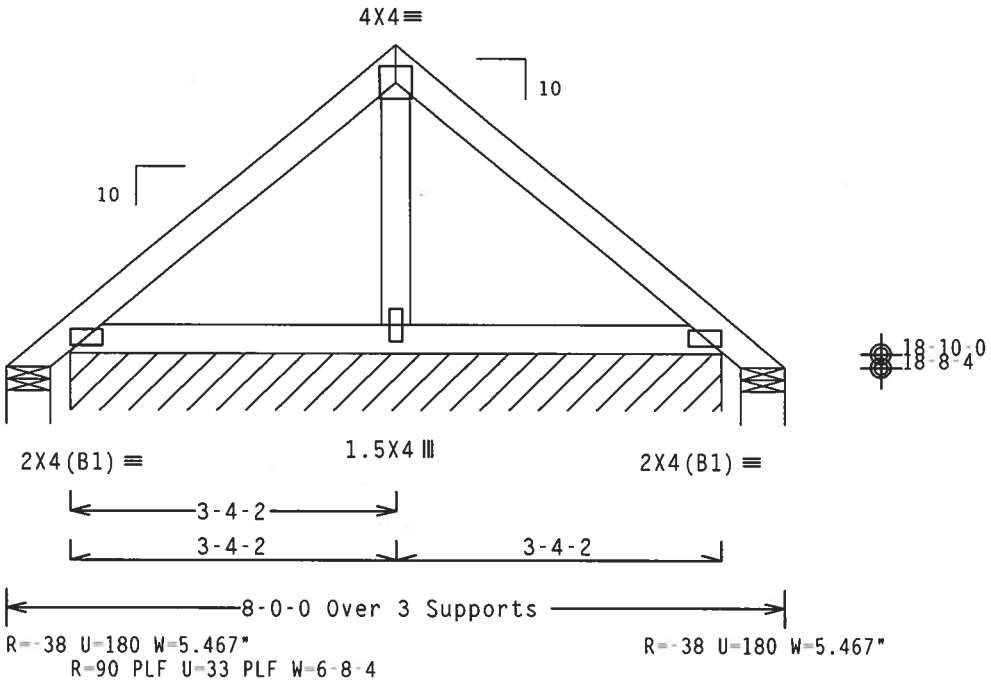
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

Refer to DWG PIGBACKA1103 or PIGBACKB0204 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC,
UNLESS OTHERWISE SPECIFIED.

110 mph wind, 20.36 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=1.2 psf.

Deflection meets L/360 live and L/240 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) 7.22.1 QTY:6 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE

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FL Certificate of Authorization # 567

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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.

ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82028
TC DL	10.0 PSF	DATE	01/18/06
BC DL	2.0 PSF	DRW	HCUSR487 06018089
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	32.0 PSF	SEQN-	25288
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - R1-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W1, W2 2x6 SP #2:

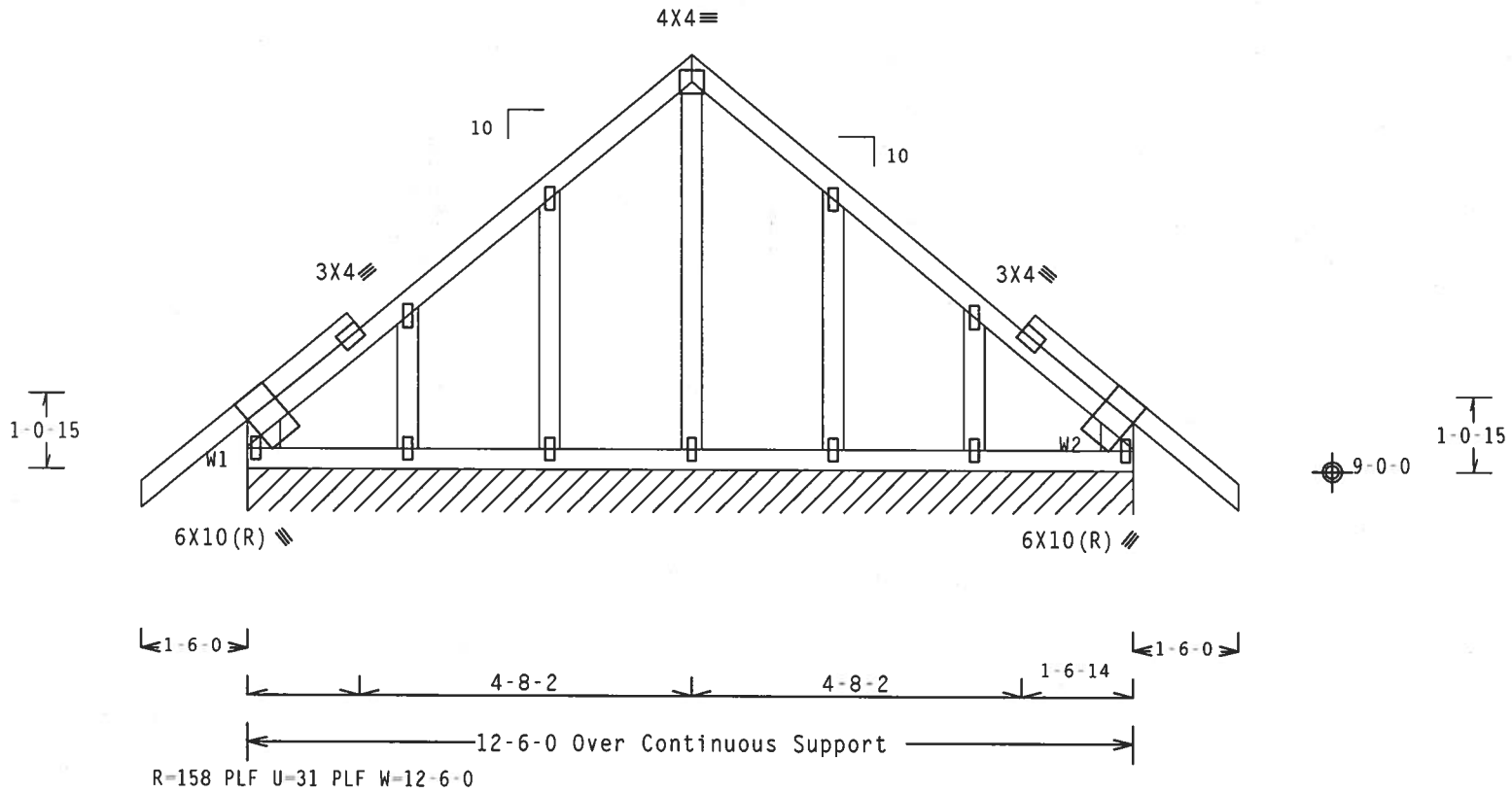
Truss spaced at 24.0" OC designed to support 1-4-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

Fasten rated sheathing to one face of this frame.

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

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.

Deflection meets L/360 live and L/240 total load. 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 Cg/RT=1.00(1.25)/10(0) 7.22.11 TY: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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 06

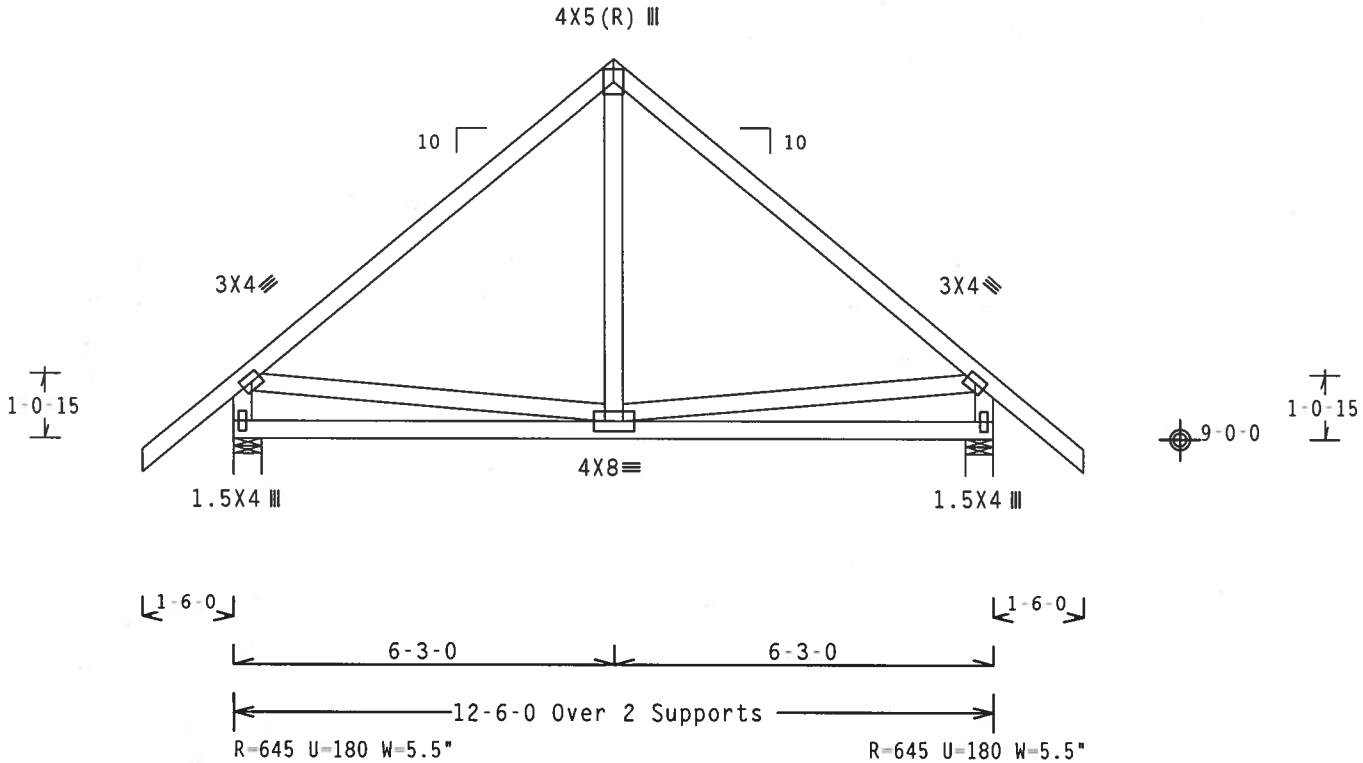
TC LL	20.0 PSF	REF	R487-- 82029
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018090
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25543 REV
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION WHITCOMB - R2)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

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ARTHUR R. FISHER LICENSE No. 52687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18, 2006

TC LL	20.0 PSF	REF	R487-- 82030
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018048
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	77131
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

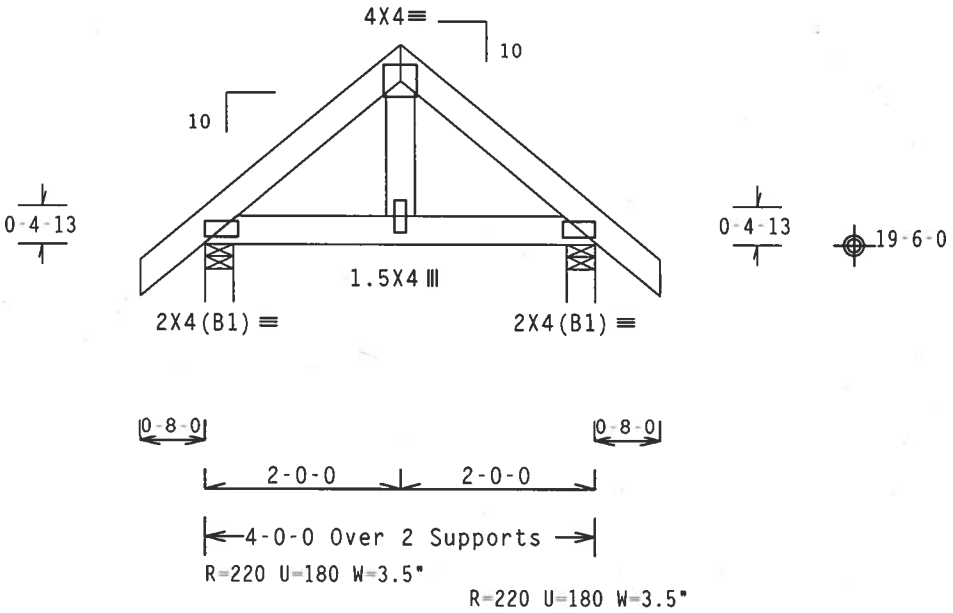
ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

(5-557-ISAAC CONSTRUCTION-WHITCOMB - x1)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 20.46 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.22.1 [illegible]Y:10 FL/-/4/-/-/R/-

PLT TYP. Wave

Scale =.5"/Ft.

ALPINE
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82031
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018049
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	25347
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - S1-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W1, W9 2x6 SP #2:

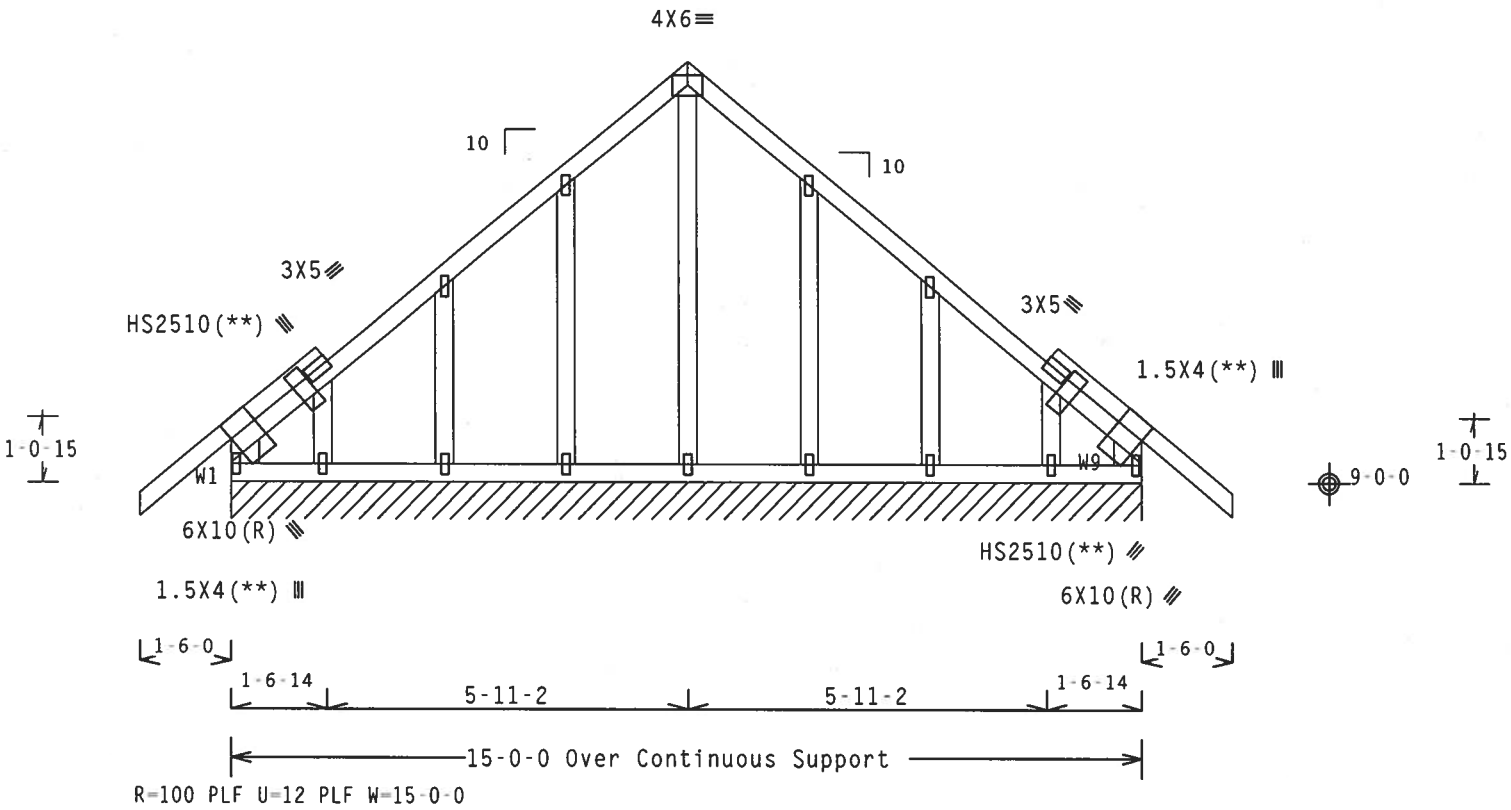
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

Fasten rated sheathing to one face of this frame.

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

(**) Plate relocated as shown.

See DWGS A11015EE0405 & GBLLETIN0405 for more requirements.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. 20 Gauge HS,Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 18, 06

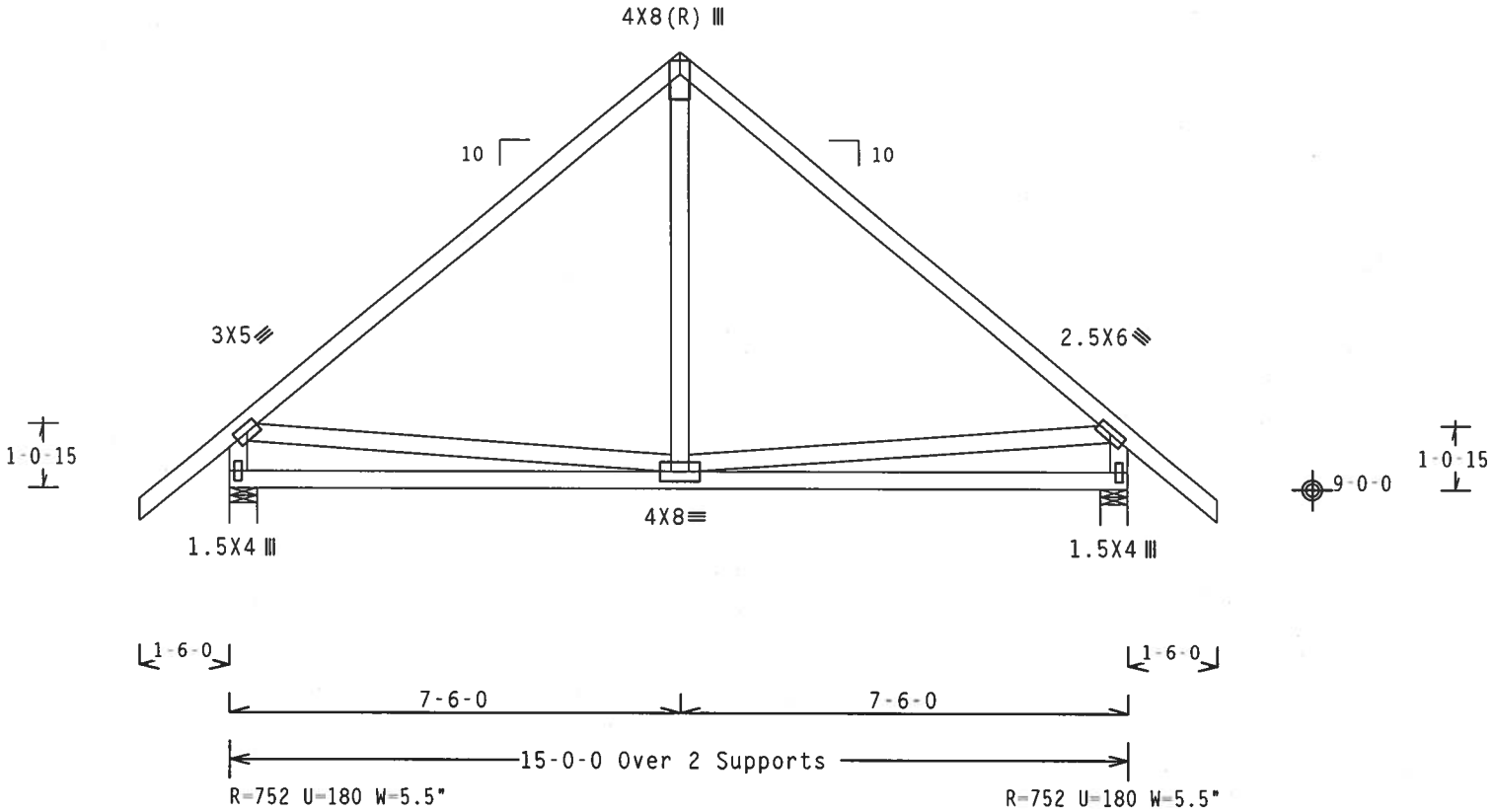
TC LL	20.0 PSF	REF	R487-- 82032
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018091
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	137694 REV
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - S2)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.3125"/Ft.

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
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ARTHUR R. FISHER
LICENSE
No. 59687
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jan 18 '06

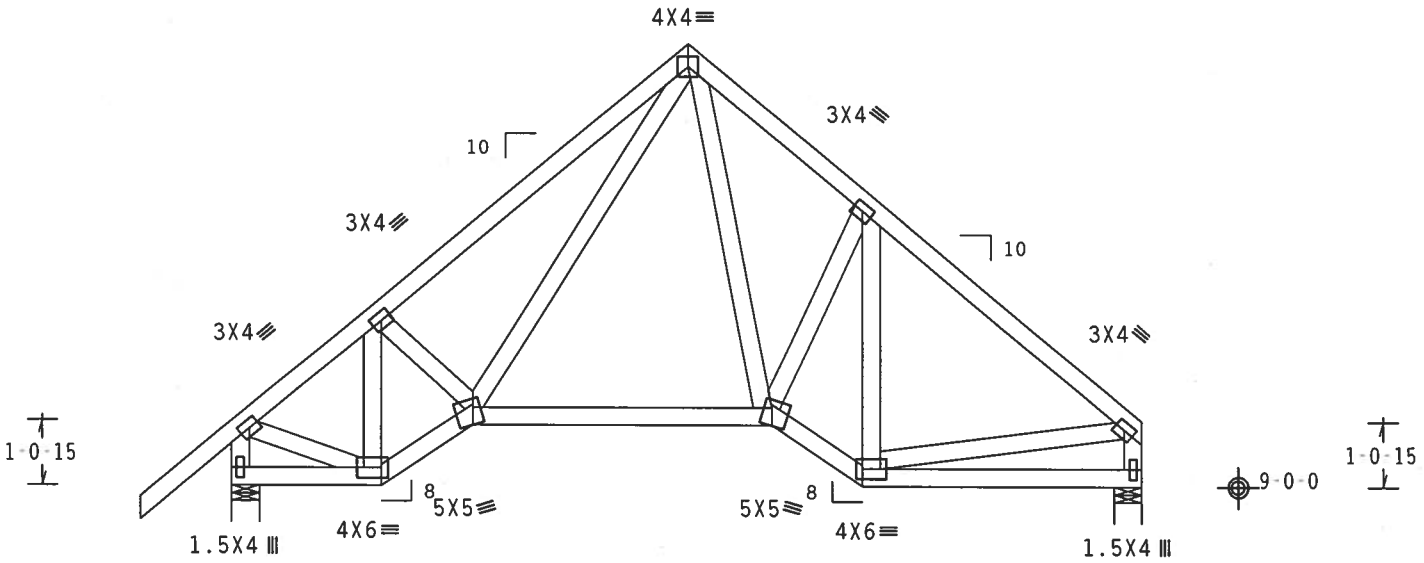
TC LL	20.0 PSF	REF	R487-- 82033
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018050
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	25367
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

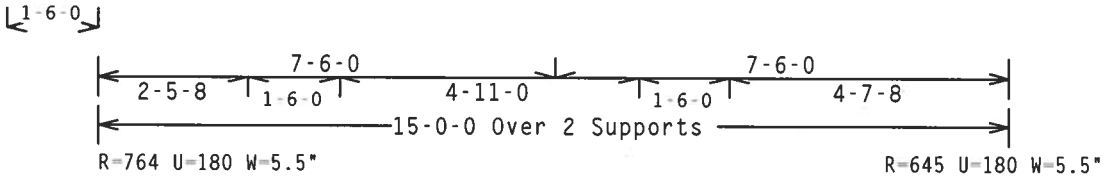
(5-557-ISAAC CONSTRUCTION WHITCOMB - S3)

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

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





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cg/RT=1.00(1.25)/10(0) 7.22.1 QTY:4 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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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82034
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018051
BC LL	0.0 PSF	HC-ENG	JB/AF *
TOT.LD.	40.0 PSF	SEQN-	25373
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION WHITCOMB - 34)

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

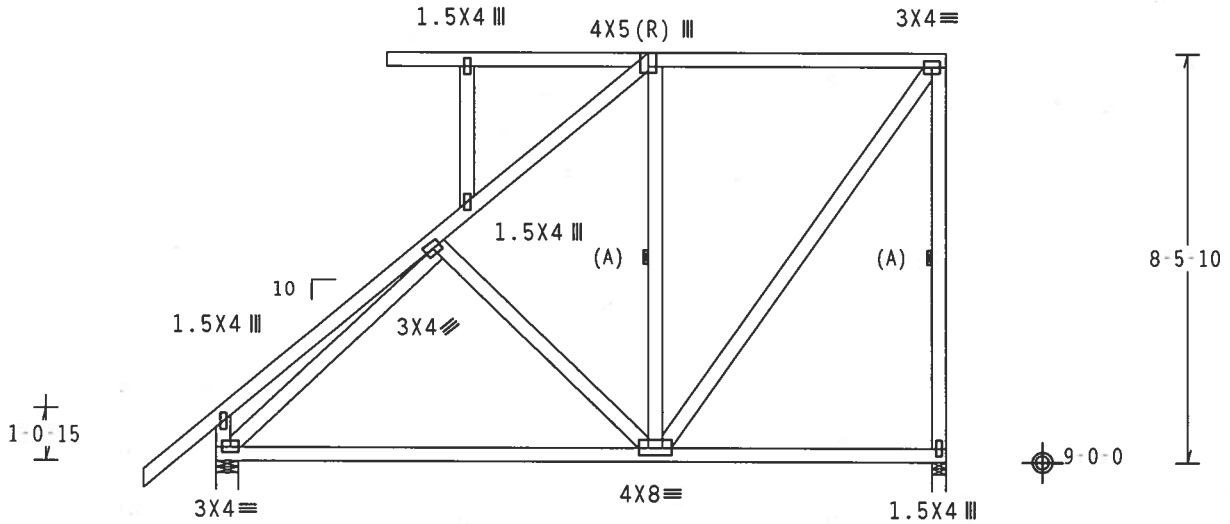
(A) Continuous lateral bracing equally spaced on member.

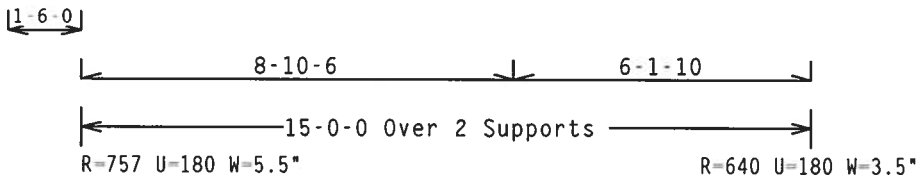
Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE TOP CHORD BELOW FILLER AT 24" O.C,
INCLUDING A LATERAL BRACE AT CHORD ENDS.

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

Right end vertical not exposed to wind pressure.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.11 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
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1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

TC LL	20.0 PSF	REF	R487-- 82035
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018092
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25386
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - S5)

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

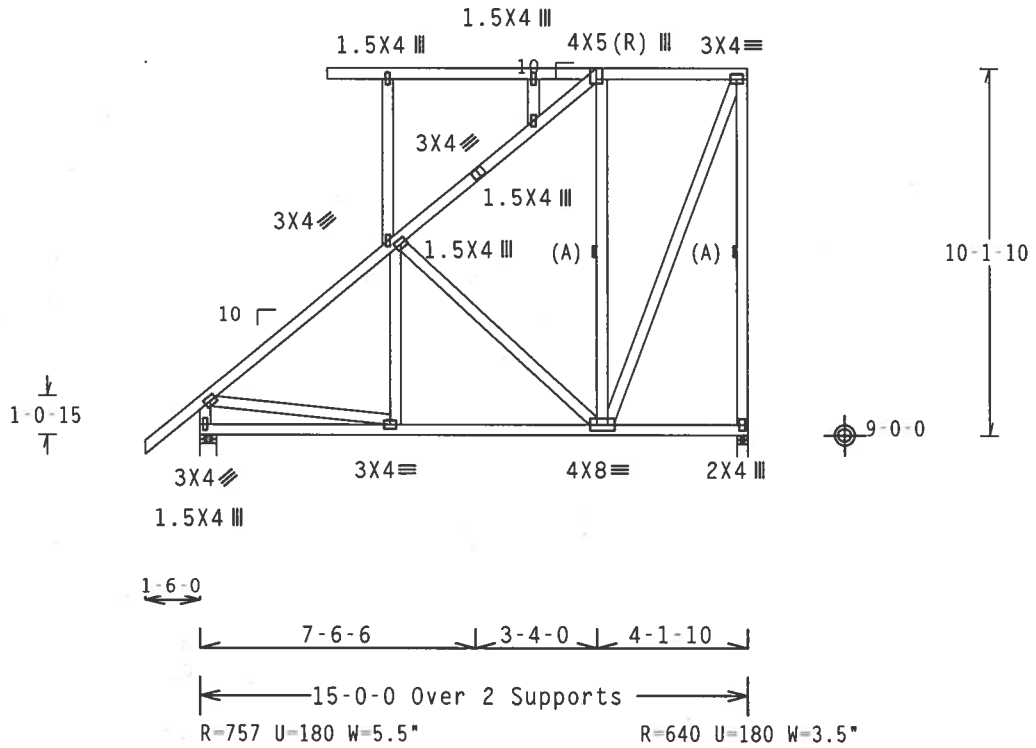
(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE TOP CHORD BELOW FILLER AT 24" O.C,
INCLUDING A LATERAL BRACE AT CHORD ENDS.

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

Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave Cq/RT=1.00(1.25)/10(0) 7.22.1 QTY:1 FL/-/4/-/-/R/- Scale =.1875"/Ft.

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18 '06

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

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TC LL	20.0 PSF	REF	R487-- 82036
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018093
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN-	25453
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

(5-557-ISAAC CONSTRUCTION-WHITCOMB - S6G)

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense
Webs 2x4 SP #3
:Lt Slider 2x6 SP #2: BLOCK LENGTH = 2.200'

SPECIAL LOADS
------(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 66 PLF at 0.00 to 66 PLF at 15.00
BC - From 20 PLF at 0.00 to 20 PLF at 15.00
PLB- 1830 LB Conc. Load at (5.06,9.04)
PLB- 792 LB Conc. Load at (7.06,9.04)
PLB- 792 LB Conc. Load at (9.06,9.04)
PLB- 792 LB Conc. Load at (11.06,9.04)
PLB- 806 LB Conc. Load at (13.06,9.04)

(A) SP #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" OC.

SEE DWGS TCFILLER1103 AND BCFILLER1103 FOR FILLER DETAILS.
LATERALLY BRACE TOP CHORD BELOW FILLER AT 24" O.C,
INCLUDING A LATERAL BRACE AT CHORD ENDS.

2 COMPLETE TRUSSES REQUIRED

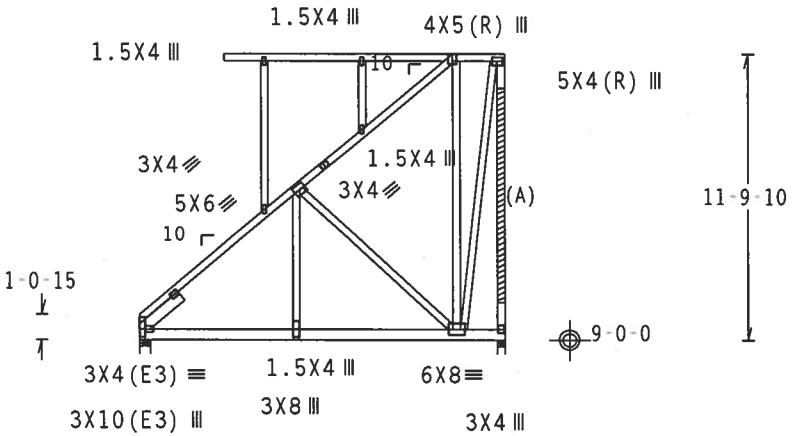
Nailing Schedule: (12d_Common_(0.148"x3.25",_min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @ 5.50" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.

THE ARCHITECT OR ENGINEER OF RECORD SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS".)



Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/10(0) 7.22.1[illegible]TY:1 FL/-/4/-/-/R/- Scale =.125"/Ft.

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ARTHUR R. FISHER LICENSE No.59687 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jan 18, '06

TC LL	20.0 PSF	REF	R487-- 82037
TC DL	10.0 PSF	DATE	01/18/06
BC DL	10.0 PSF	DRW	HCUSR487 06018094
BC LL	0.0 PSF		HC-ENG JB/AF
TOT.LD.	40.0 PSF	SEQN-	25447
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1STY487_Z02

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

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

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE * GROUP A	(1) 1X4 "L" BRACE * GROUP B	(1) 2X4 "L" BRACE * GROUP A	(1) 2X4 "L" BRACE * GROUP B	(2) 2X4 "L" BRACE ** GROUP A	(2) 2X4 "L" BRACE ** GROUP B	(1) 2X6 "L" BRACE * GROUP A	(1) 2X6 "L" BRACE * GROUP B	(2) 2X6 "L" BRACE ** GROUP A	(2) 2X6 "L" BRACE ** 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:

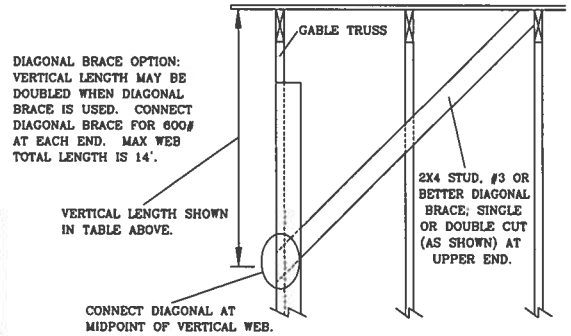
SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

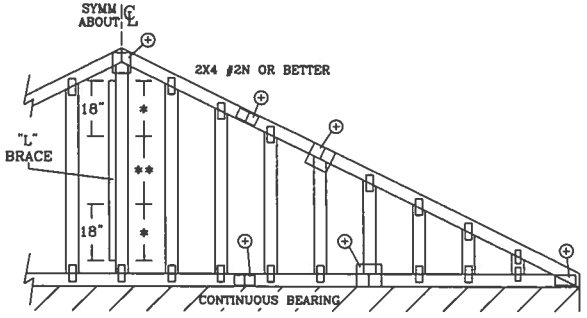
DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#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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MAX. TOT. LD. 60 PSF

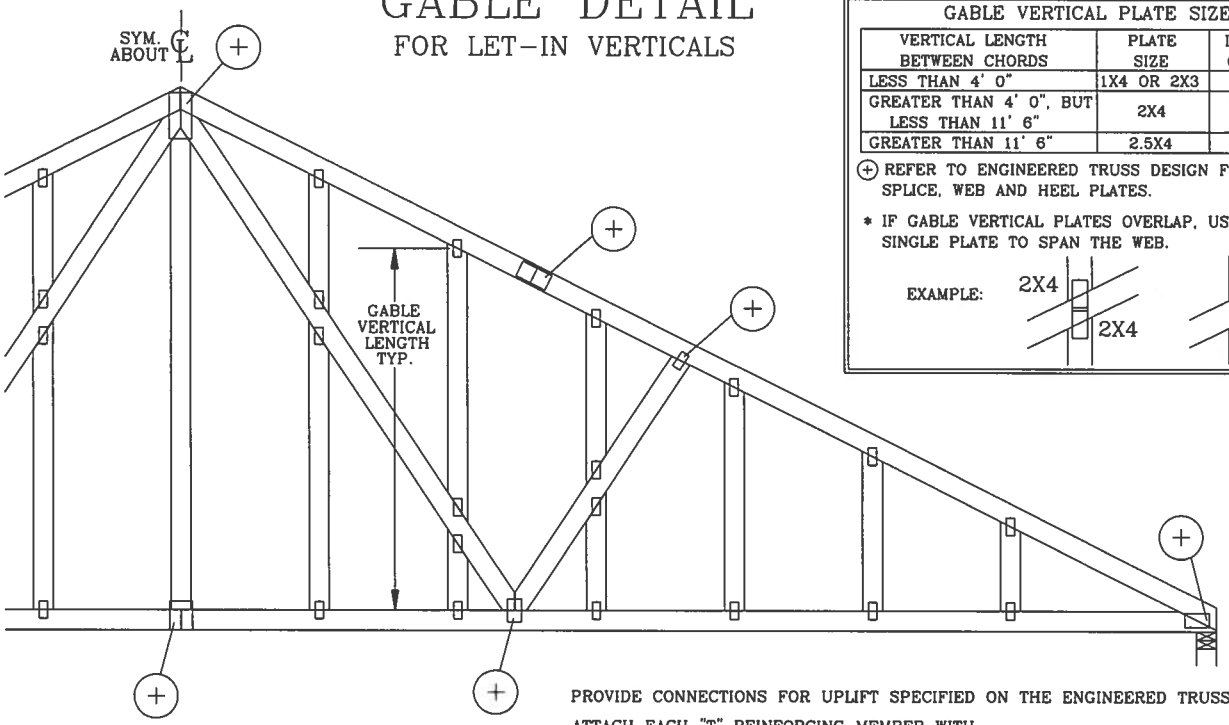
MAX. SPACING 24.0"

REF	ASCE7-02-GAB11015
DATE	04/15/05
DRWG	A11015EE0405
-ENG	

ARTHUR B. FISHER
LICENSE
No. 52687
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jan 1[illegible]

GABLE DETAIL
FOR LET-IN VERTICALS

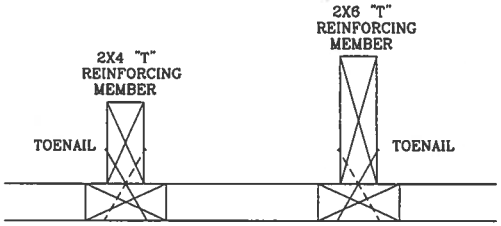


GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ 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:



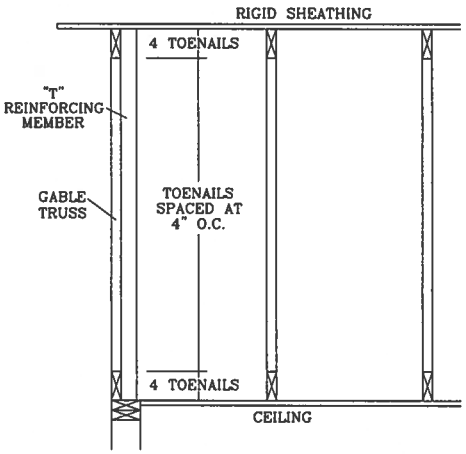
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

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.

REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

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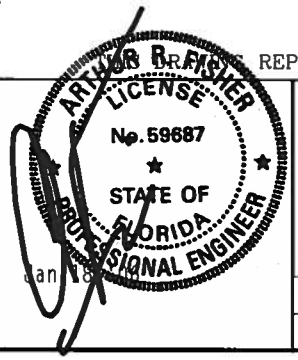


MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

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

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.

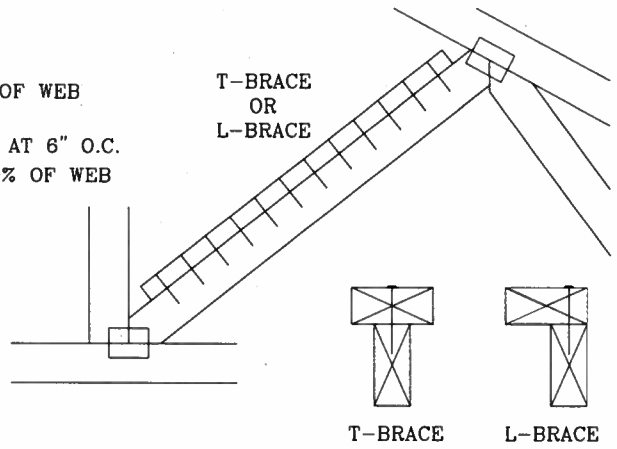
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

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.

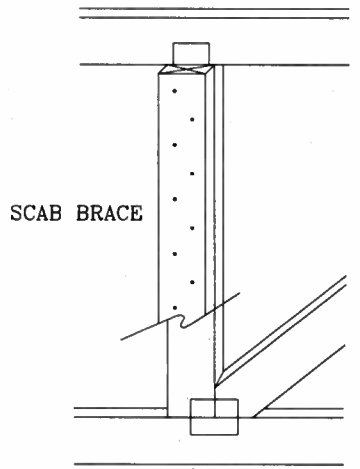
T-BRACING OR L-BRACING:

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

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ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Ja[illegible] 12

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

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

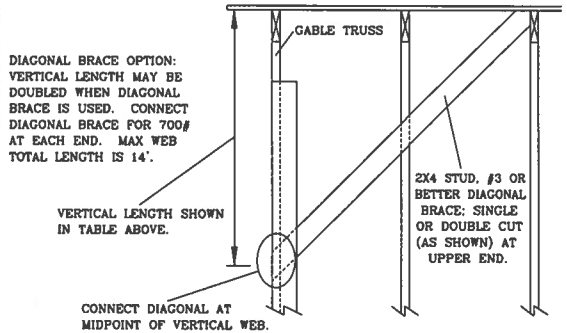
SOUTHERN PINE
#3
STUD
STANDARD

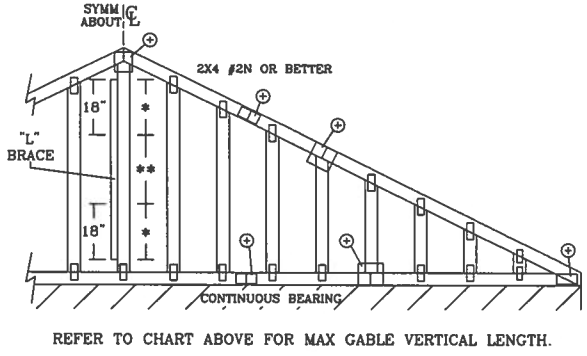
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

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

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

GABLE VERTICAL PLATE SIZES

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

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

ALPINE

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MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11030
DATE	04/14/05
DRWG	A11030EE0405
-ENG	

ARTHUR R. FISHER LICENSE No. 59687 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jan 18 05