ATE 10/17/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025130

APPLICANT CAREY CHANDLER PHONE 755-5500

ADDRESS 1256 SW CR 240 LAKE CITY FL 32025

OWNER RICHARD KEEN PHONE 758-8999

ADDRESS 240 SW PLATEAU GLEN LAKE CITY FL 32024

CONTRACTOR JAMES JOHNSTON PHONE 365-5999

LOCATION OF PROPERTY 47S, TR ON CR 242, TR ON WISE DR, TL ON GARDNER TERR, TR ON PLATEAU GLEN, 5TH LOT ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 82850.00

HEATED FLOOR AREA 1657.00 TOTAL AREA 2231.00 HEIGHT ____ STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 11

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

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

PARCEL ID 24-4S-16-03113-165 SUBDIVISION WISE ESTATES

LOT 35 BLOCK C PHASE ____ UNIT ____ TOTAL ACRES ____

000001242 ____ ____ X Carey J Chandler

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

CULVERT 06-0818-N BK JH ____

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

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 771

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 ____

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0610-29 Date Received 10/10/06 By LH Permit # 1242/25130

Application Approved by - Zoning Official RJK Date 12.10.06 Plans Examiner OKJTH Date 10-10-06

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

Comments Plat Requires MFE of 100.5' Elevation Letter Required

CR# 771

Applicants Name James Johnston Phone 755-5500 365-5999

Address 1256 SW CR 240 Lake City FL 32025

Owners Name Richard + Mary Keen Phone 758-8999

911 Address 240 SW Plateau Glen Lake City FL 32024

Contractors Name James Johnston Phone 365-5999

Address 1256 SW CR 240 Lake City FL 32025

Fee Simple Owner Name & Address Richard and Mary Keen

Bonding Co. Name & Address

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address Columbia County Bank

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

Property ID Number 24-4S-16-03113-165 Estimated Cost of Construction 140,000 00

Subdivision Name Wise Estates Lot 35 Block C Unit ___ Phase ___

Driving Directions 47 S. to CR 242 turn right, go to Wise Estates turn right on SW Wise Drive, go to SW Gardner Terr. turn left, go to SW Plateau Glen turn right, 5th lot on right

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage .63 Lot Size .63 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 38 Side 45 Side 40 Rear 50+

Total Building Height 11'4" 5/8 Number of Stories 1 Heated Floor Area 1657 Roof Pitch 6/12

TOTAL 2231

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

Contractors License Number CRC1328128

Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 10th day of Oct 2006.

Personally known X or Produced Identification ____

Notary Signature

CAREY R. CHANDLER
MY COMMISSION #DD432023
EXPIRES: MAY 22, 2009
Bonded through 1st State Insurance

JW called RK 10.13.06

1 of 3

Prepared by and Return to:
Katie Lilly
Gateway Title Agency, LLC
4255 SW Cambridge Glen
Lake City, Florida 32024
File Number: 37177GW
Parcel I.D. Number: R03113-165
incidental to the issuance of a Title Insurance Policy

Return To Keystone Title Agency, Inc.
9735 U.S. Hwy. 19
Port Richey, FL 34668
File # 37177GW

Inst:2006020950 Date:09/05/2006 Time:10:58
Doc Stamp-Deed : 315.00
S.T. DC,P.DeWitt Cason,Columbia County B:1094 P:2271

General Warranty Deed

Parcel ID Number: **R03113-165**

Made this August 30 2006 A.D. By **Morris Troglin and his wife, Dorothy M. Troglin**, whose mailing address is: **618 NW Savannah Cir., Lake City, Florida 32055**, hereinafter called the grantor, to **Richard Keen and Mary Keen, husband and wife**, whose post office address is: **1256 SW CR 240, Lake City, Florida 32025**, hereinafter called the grantee:

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

Witnesseth, that the grantor, for and in consideration of the sum of **Forty Five Thousand dollars & no cents, ($45,000.00)** and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

Lot 35, in Block C, of Wise Estates, according to the Plat thereof, as recorded in Plat Book 7, at Page(s) 164 through 167, inclusive, of the Public Records of Columbia County, Florida.

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

Subject, however, to all covenants, conditions, restrictions, reservations, limitations, easements and to all applicable zoning ordinances and/or restrictions and prohibitions imposed by governmental authorities, if any..

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

3 of 3

Return To Keystone Title Agency, Inc.
9735 U.S. Hwy. 19
Port Richey, FL 34668
File #37177GW

Prepared by & Return to:
Katie Lilly
Gateway Title Agency, LLC
4255 SW Cambridge Glen, Lake City, Florida 32024
File #37177GW

NOTICE OF COMMENCEMENT

The undersigned hereby informs all concerned that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is stated in the NOTICE OF COMMENCEMENT.

1. Description of property: Lot 35, in Block C, of Wise Estates, according to the Plat thereof, as recorded in Plat Book 7, at Page(s) 164 through 167, inclusive, of the Public Records of Columbia County, Florida.

2. General description of Improvements: Construction [house/pool]

3. Owner: Richard Keen and Mary Keen
1256 SW CR 240
Lake City, FL 32025

4. Owner's Interest in site of the Improvement: Fee Simple

5. Contractor: Richard Keen and Mary Keen
1256 SW CR 240
Lake City, FL 32025

Inst:2006020952 Date:09/05/2006 Time:10:58
DC,P.DeWitt Cason,Columbia County B:1094 P:2278

6. Name of person making a loan for the construction of the above improvements:

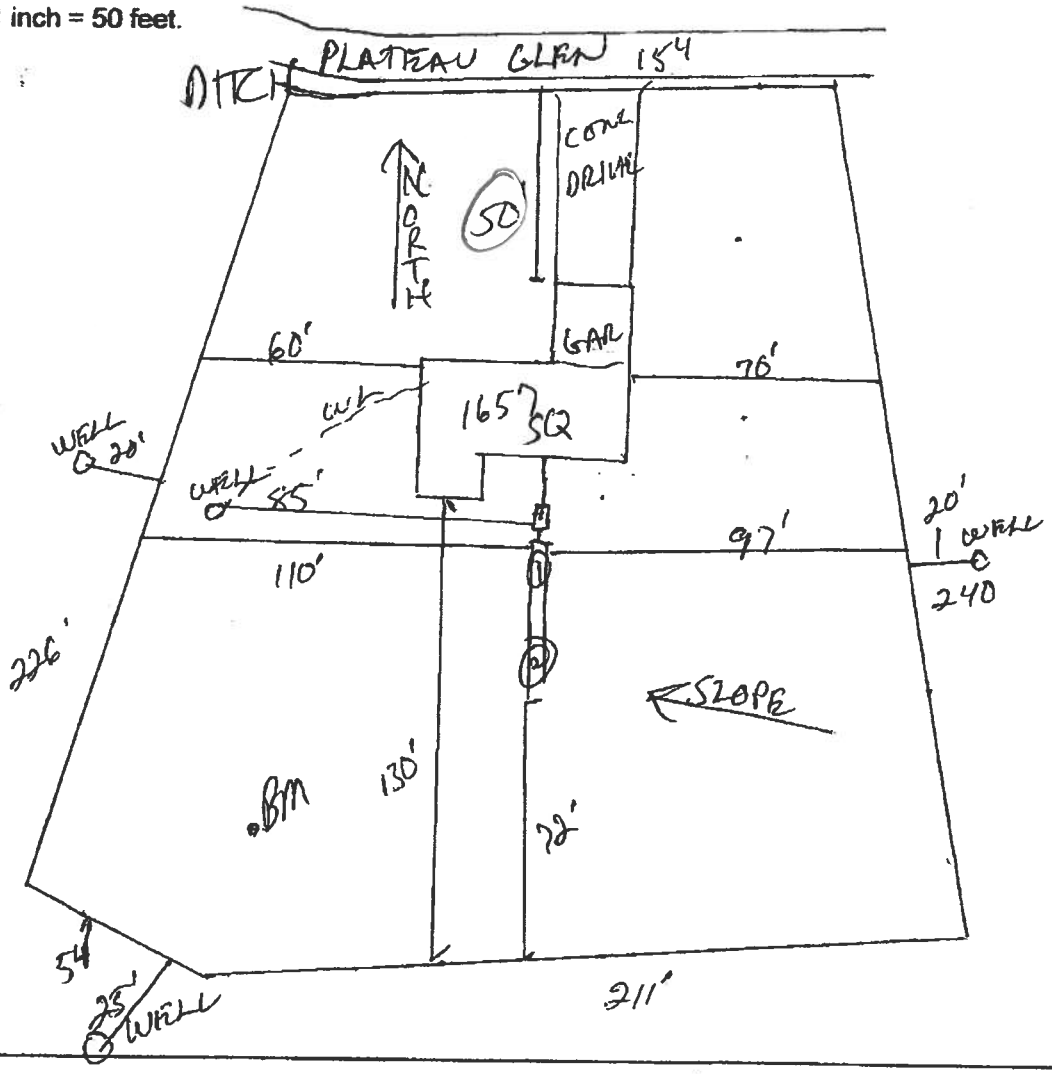
Columbia Bank
P.O. Box 1609, Lake City, Florida 32056

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0818N

---------- PART II - SITEPLAN ----------

Scale: 1 inch = 50 feet.



Notes: _____

Site Plan submitted by: Rock D [illegible] MASTER CONTRACTOR

Plan Approved ✓ Not Approved ____ Date 9/18/06

By [illegible] Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001242

DATE 10/17/2006 PARCEL ID # 24-4S-16-03113-165

APPLICANT CAREY CHANDLER PHONE 755-5500

ADDRESS 1256 SW CR 240 LAKE CITY FL 32025

OWNER RICHARD KEEN PHONE 758-8999

ADDRESS 240 SW PLATEAU GLEN LAKE CITY FL 32024

CONTRACTOR JAMES JOHNSTON PHONE 365-5999

LOCATION OF PROPERTY 47S, TR ON CR 242, TR ON WISE DR, TL ON GARDNER TERR,

TR ON PLATEAU GLEN, 5TH LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT WISE ESTATES 35 C

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid $

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:	**609085KeenRichard**	Builder:	
Address:	**Lot: 35, Sub: Wise Estates, Plat:**	Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	25130
Owner:	**Spec House**	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: 33.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1657 ft²	c. N/A	
7. Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT) 7a.	(Dble Default) 141.0 ft²	a. Electric Heat Pump	Cap: 33.0 kBtu/hr
b. SHGC:			HSPF: 7.90
(or Clear or Tint DEFAULT) 7b.	(Clear) 141.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 189.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 1175.0 ft²		EF: 0.93
b. Frame, Wood, Adjacent	R=13.0, 156.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar	
10. Ceiling types		DHP-Dedicated heat pump)	
a. Under Attic	R=30.0, 1657.0 ft²	15. HVAC credits	
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 156.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.09 Total as-built points: 22947 Total base points: 27737 **PASS**

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

PREPARED BY: Ken Lovett

DATE: 10-10-06

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

OWNER/AGENT: _____

DATE: 10/18/06

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: 35, Sub: Wise Estates, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	**1657.0**	**20.04**	**5977.1**	Double, Clear	W	1.5	5.5	45.0	38.52	0.90	1554.9
				Double, Clear	W	1.5	6.5	36.0	38.52	0.93	1285.8
				Double, Clear	N	1.5	5.5	15.0	19.20	0.93	267.3
				Double, Clear	E	1.5	5.5	15.0	42.06	0.90	565.5
				Double, Clear	E	1.5	5.5	30.0	42.06	0.90	1131.0
				As-Built Total:				**141.0**			**4804.4**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	156.0	0.70	109.2	Frame, Wood, Exterior			13.0	1175.0	1.50		1762.5
Exterior	1175.0	1.70	1997.5	Frame, Wood, Adjacent			13.0	156.0	0.60		93.6
Base Total:	**1331.0**		**2106.7**	**As-Built Total:**				**1331.0**			**1856.1**
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	1657.0	1.73	2866.6	Under Attic			30.0	1657.0	1.73 X 1.00		2866.6
Base Total:	**1657.0**		**2866.6**	**As-Built Total:**				**1657.0**			**2866.6**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	189.0(p)	-37.0	-6993.0	Slab-On-Grade Edge Insulation			0.0	189.0(p	-41.20		-7786.8
Raised	0.0	0.00	0.0								
Base Total:			**-6993.0**	**As-Built Total:**				**189.0**			**-7786.8**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1657.0	10.21	16918.0					1657.0	10.21		16918.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 35, Sub: Wise Estates, Plat: , , FL,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 20989.4			**Summer As-Built Points: 18772.3**					
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 33000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
			18772	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000	5607.1
20989.4	**0.4266**	**8954.1**	**18772.3**	**1.00**	**1.138**	**0.263**	**1.000**	**5607.1**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 35, Sub: Wise Estates, Plat: , , FL,** 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	1657.0	12.74	3799.8	Double, Clear	W	1.5	5.5	45.0	20.73	1.03	959.0
				Double, Clear	W	1.5	6.5	36.0	20.73	1.02	760.9
				Double, Clear	N	1.5	5.5	15.0	24.58	1.00	369.8
				Double, Clear	E	1.5	5.5	15.0	18.79	1.04	293.5
				Double, Clear	E	1.5	5.5	30.0	18.79	1.04	587.1
				As-Built Total:				**141.0**			**2970.3**
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Adjacent	156.0	3.60	561.6	Frame, Wood, Exterior			13.0	1175.0	3.40		3995.0
Exterior	1175.0	3.70	4347.5	Frame, Wood, Adjacent			13.0	156.0	3.30		514.8
Base Total:	**1331.0**		**4909.1**	**As-Built Total:**				**1331.0**			**4509.8**
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	1657.0	2.05	3396.8	Under Attic			30.0	1657.0	2.05 X 1.00		3396.8
Base Total:	**1657.0**		**3396.8**	**As-Built Total:**				**1657.0**			**3396.8**
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points
Slab	189.0(p)	8.9	1682.1	Slab-On-Grade Edge Insulation			0.0	189.0(p	18.80		3553.2
Raised	0.0	0.00	0.0								
Base Total:			**1682.1**	**As-Built Total:**				**189.0**			**3553.2**
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points
	1657.0	-0.59	-977.6					1657.0	-0.59		-977.6

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 35, Sub: Wise Estates, Plat: , , FL,** PERMIT #:

BASE			AS-BUILT						
Winter Base Points:		**13138.3**	**Winter As-Built Points:**						**13780.5**
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 33000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
			13780.5	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000	6913.0	
13138.3	**0.6274**	**8242.9**	**13780.5**	**1.00**	**1.162**	**0.432**	**1.000**	**6913.0**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 35, Sub: Wise Estates, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
4		2635.00	10540.0	40.0	0.93	4		1.00	2606.67	1.00	10426.7
				As-Built Total:							**10426.7**

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points		Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	
8954	**8243**	**10540**	**27737**		**5607**	**6913**	**10427**	**22947**	

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 35, Sub: Wise Estates, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.5

The higher the score, the more efficient the home.

Spec House, Lot: 35, Sub: Wise Estates, Plat: , , FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 33.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	4		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1657 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area	13.	Heating systems	
	(or Single or Double DEFAULT) 7a.	(Dble Default) 141.0 ft²		a. Electric Heat Pump	Cap: 33.0 kBtu/hr
	b. SHGC:				HSPF: 7.90
	(or Clear or Tint DEFAULT) 7b.	(Clear) 141.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 189.0(p) ft		c. N/A	
	b. N/A				
	c. N/A		14.	Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 40.0 gallons
	a. Frame, Wood, Exterior	R=13.0, 1175.0 ft²			EF: 0.93
	b. Frame, Wood, Adjacent	R=13.0, 156.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1657.0 ft²	15.	HVAC credits	
	b. N/A			(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 156.0 ft		MZ-C-Multizone cooling,	
	b. N/A			MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: 10/10/06

Address of New Home: Lot 35 Emerald Lake City/FL Zip: 32025

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.

Architectural Testing

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

Rendered to:

MI WINDOWS AND DOORS, INC

SERIES/MODEL: 420/430/440
PRODUCT TYPE: Aluminum Sliding Glass Door

Title	Summary of Results		
	Test Specimen #1	Test Specimen #2	Test Specimen #3
Rating	SGD-R25 182 x 96	SGD-R35 182 x 80	SGD-R40 144 x 96
Operating Force	17 lbf max.	17 lbf max.	N/A
Air Infiltration	0.23 cfm/ft^2	0.27 cfm/ft^2	N/A
Water Resistance Test Pressure	3.75/6.0/9.0 psf	6.0 psf	N/A
Uniform Load Deflection Test Pressure	±35.0 psf	±35.0 psf	+40.0 psf/-40.1 psf
Uniform Load Structural Test Pressure	±37.5 psf	±52.5 psf	+60.0 psf/-60.2 psf
Forced Entry Resistance	Grade 10	Grade 10	N/A

Reference should be made to ATI Report No. 52112.01-122-47 for complete test specimen description and data.

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Architectural Testing

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

Rendered to:

MI WINDOWS AND DOORS, INC
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No.:	52112.01-122-47
Revision 2:	09/14/05
Test Dates:	06/30/04
Through:	08/12/04
Report Date:	08/30/04
Expiration Date:	07/02/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Windows and Doors, Inc. to witness testing on three Series/Model 420/430/440, aluminum sliding glass doors at MI Windows and Doors, Inc. test facility in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for the following ratings: Test Specimen #1: SGD-R25 182 x 96; Test Specimen #2: SGD-R35 182 x 80; Test Specimen #3: SGD-R40 144 x 96. Test specimen description and results are reported herein.

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

Test Specimen Description:

Series/Model: 420/430/440

Product Type: Aluminum Sliding Glass Door

Test Specimen #1: SGD-R25 182 x 96 (XXO)

Overall Size: 15' 1-3/4" wide by 8' 0" high

Active Door Panel Size (2): 5' 0-1/2" wide by 7' 11" high

Fixed Door Panel Size: 5' 1" wide by 7' 11" high

Screen Size: 5' 0-3/8" wide by 7' 11" high

Overall Area: 121.2 ft^2

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520).

130 Derry Court
York, PA 17402-9405
phone: 717-764-7700
fax: 717-764-4129
www.archtest.com

Test Specimen Description: (Continued)

Test Specimen #2: SGD-R35 182 x 80 (OXX)

Overall Size: 15' 1-3/4" wide by 6' 8" high

Active Door Panel Size (2): 5' 0-1/2" wide by 6' 7" high

Fixed Door Panel Size: 4' 8-7/8" wide by 6' 2-5/8" high

Screen Size: 5' 0-3/8" wide by 6' 7" high

Overall Area: 101 ft^2

Reinforcement: No reinforcement was utilized.

Test Specimen #3: SGD-R40 144 x 96 (OXO)

Overall Size: 12' 0" wide by 8' 0" high

Active Door Panel Size: 3' 8-1/4" wide by 7' 10-1/2" high

Fixed Door Panel Size (2): 3' 8-3/4" wide by 7' 6-1/2" high

Screen Size: 3' 11-1/2" wide by 7' 11-3/8" high

Overall Area: 96 ft^2

Reinforcement: The active and fixed interlocking stile utilized a steel U-shaped reinforcement (Drawing #9917525). The fixed intermediate jamb utilized a steel reinforcement (Drawing #9917520). The interlock utilized an aluminum reinforcement (Drawing #SECT4237).

The following descriptions apply to all specimens.

Finish: All aluminum was painted.

Glazing Details: All glazing consisted of a single sheet of 3/16" thick clear tempered glass that was channel glazed with a wrap around rubber gasket.

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.270" high polypile with center fin	2 Rows	Stiles
1/2" wide by 1" long polypile dust plug	2 Pieces	Corner of head, jamb, and top and bottom of panel retainer
0.187" backed by 0.250" high polypile with center fin	2 Rows	Top rail
0.187" backed by 0.350" high polypile with center fin	2 Rows	Bottom rail
0.187" backed by 0.230" high polypile with center fin	1 Row	Panel interlock, screen stiles

Frame Construction: The frame was constructed of extruded aluminum. Corners were coped, butted, sealed, and fastened with two #8 x 5/8" screws. An aluminum panel adaptor was added to the screen adaptor and secured with #6 x 3/8" pan head screws located 3-1/2" from the ends and 14" on center through the screen adaptor into the panel adaptor. The jambs utilized a panel jamb retainer on the fixed panels secured to the jambs with two #6 x 1/2" screws through the retainer into the jambs. The panels were placed in the retainer and secured to the frame with two #8 x 1/2" screws located through the retainers into the panels. Three panel jamb retainers were utilized to secure the fixed panels, located at panel top and bottom and one midspan. The fixed panels also utilized an aluminum sill retainer clip located at the sill. The sill utilized an optional aluminum sill extender.

Door Panel Construction: The door panels were constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" x 3/4" screw at the bottom and two #8 x 3/4" screws at the top.

Screen Construction: The screen was constructed of extruded aluminum members. Corners were coped, butted, and fastened with one 1/4" x 3/4" screw and one #8 x 1" screw at the bottom and one #8 x 1" screw at the top.

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Locking handle	1	44" from active panel bottom
Roller assembly	2	3" from bottom rail ends
Screen locking handle	1	46" from screen bottom rail
Screen rollers	2	Corners of bottom rail

Drainage:

Description	Quantity	Location
Sloped sill	1	Sill
1/2" long drain off notches	6	Ends of vertical sill legs

Installation: The units were installed into a #2 Spruce-Pine-Fir wood test buck. The units were fastened to the test buck with two rows of #8 x 1-1/4" screws, 8" from each end and 23" on center. The exterior perimeter was sealed with silicone.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO)			
2.2.1.6.1	Operating Force	17 lbf	20 lbf max.
	Breakaway force	24 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283		
	1.57 psf (25 mph)	0.23 cfm/ft^2	0.3 cfm/ft^2 max.

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

2.1.3	Water Resistance per ASTM E 547 (with and without screen)		
	2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection per ASTM E 330		
	(Deflections reported were taken on the meeting rail)		
	(Loads were held for 52 seconds)		
	15.0 psf (positive)	0.56"	See Note #2
	15.0 psf (negative)	0.57"	See Note #2

Note #2: *The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.*

2.1.4.2	Uniform Load Structural per ASTM E 330		
	(Permanent sets reported were taken on the meeting stile)		
	(Loads were held for 10 seconds)		
	22.5 psf (positive)	0.02"	0.30" max.
	22.5 psf (negative)	0.03"	0.30" max.
2.2.1.6.2	Deglazing Test per ASTM E 987		
	In operating direction - 70 lbs		
	Locking stile	0.12"/24%	0.50"/100%
	Interlock stile	0.12"/24%	0.50"/100%

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)			
2.2.1.6.2	Deglazing Test per ASTM E 987 In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance per ASTM E 547 (with and without screen) 3.75 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 6.0 psf	No leakage	No leakage
4.3	Water Resistance per ASTM E 547 (with and without screen) (with 2-5/8" Dade County sill extension) 9.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	35.0 psf (positive)	2.98"	See Note #2
	35.0 psf (negative)	2.52"	See Note #2

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Test Specimen #1: SGD-R25 182 x 96 (XXO) (Continued)			
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	37.5 psf (positive)	0.20"	0.36" max.
	37.5 psf (negative)	0.19"	0.36" max.
Test Specimen #2: SGD-R35 182 x 80 (OXX)			
2.2.1.6.1	Operating Force	17 lbf	20 lbf max.
	Breakaway force	21 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283		
	1.57 psf (25 mph)	0.27 cfm/ft^2	0.3 cfm/ft^2 max.

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

2.1.3	Water Resistance per ASTM E 547 (with and without screen)		
	2.86 psf	No leakage	No leakage
2.2.1.6.2	Deglazing Test per ASTM E 987		
	In operating direction - 70 lbs		
	Locking stile	0.12"/24%	0.50"/100%
	Interlock stile	0.12"/24%	0.50"/100%
	In remaining direction - 50 lbs		
	Top rail	0.06"/12%	0.50"/100%
	Bottom rail	0.06"/12%	0.50"/100%
2.1.8	Forced Entry Resistance per ASTM F 842		
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1 through A6	No entry	No entry
	Lock Manipulation Test	No entry	No entry

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
	Test Specimen #2: SGD-R35 182 x 80 (OXX) (Continued)		
	Optional Performance		
4.3	Water Resistance per ASTM E 547 (with and without screen) (with sill riser) 6.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	35.0 psf (positive)	1.28"	See Note #2
	35.0 psf (negative)	1.33"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	52.5 psf (positive)	0.13"	0.30" max.
	52.5 psf (negative)	0.15"	0.30" max.
	Test Specimen #3: SGD-R40 144 x 96 (OXO)		
	Optional Performance		
4.4.1	Uniform Load Deflection per ASTM E 330 (Deflections reported were taken on the meeting stile) (Loads were held for 52 seconds)		
	40.0 psf (positive)	1.42"	See Note #2
	40.1 psf (negative)	1.28"	See Note #2
4.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the meeting stile) (Loads were held for 10 seconds)		
	60.0 psf (positive)	0.27"	0.37" max.
	60.2 psf (negative)	0.30"	0.37" max.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. 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. This report may not be reproduced, except in full, without approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Mark A. Hess

Mark A. Hess
Technician

Digitally Signed by: Steven M. Urich

Steven M. Urich, P.E.
Senior Project Engineer

MH:vlm

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	08/30/04	N/A	Original report issue
1	09/13/04	Cover page	Switch Specimens 1 and 2 / Added 430/440 to Series/Model
1	09/13/04	Page 1 and 2	Switch Specimen 1 and 2 sizes Added 430/440 to Series/Model on Page 1
1	09/13/04	Pages 4 through 7	Switch Specimen 1 and 2 test results / Specimen 2 optional performance water resistance from 3.75 psf to 6.00 psf with sill riser.
2	09/14/05	Page 2	Corrected configuration of Test Specimen #3
2	09/14/05	Page 3	Added additional Weatherstripping

FLORIDA DEPARTMENT OF Community Affairs

DCA HOME | ABOUT DCA | DCA PROG

BCIS Home | Log In | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | B

Community Affairs

- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- BUILDING CODES
- FLORIDA COMMUNITIES TRUST
- FRONT PORCH FLORIDA
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY
- NEWS
- FREQUENTLY ASKED QUESTIONS
- ABOUT OUR SECRETARY
- E-MAIL THE SECRETARY
- INSPECTOR GENERAL
- WEB ASSISTANCE
- CONTACT US
- OUR LOGO
- DCA EMPLOYEE SERVICES

Product Approval

USER: Public User

Product Approval Menu > Product or Application Search > **Application List**

Search Criteria

Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	MI Windo
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

Go to Page GO

FL#	Type	Manufacturer	Validat
FL5100	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	
FL5104	New	MI Windows and Doors **Category:** Windows **Subcategory:** Double Hung	
FL5108	New	MI Windows and Doors **Category:** Windows **Subcategory:** Single Hung	
FL5418	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	
FL5438	New	MI Windows and Doors **Category:** Windows **Subcategory:** Single Hung	
FL5447	New	MI Windows and Doors **Category:** Windows **Subcategory:** Double Hung	
FL5451	New	MI Windows and Doors **Category:** Windows **Subcategory:** Horizontal Slider	
FL5483-R1 History	Revision	MI Windows and Doors **Category:** Exterior Doors **Subcategory:** Sliding Exterior Door Assemblies	
FL5513	New	MI Windows and Doors **Category:** Windows	Steven

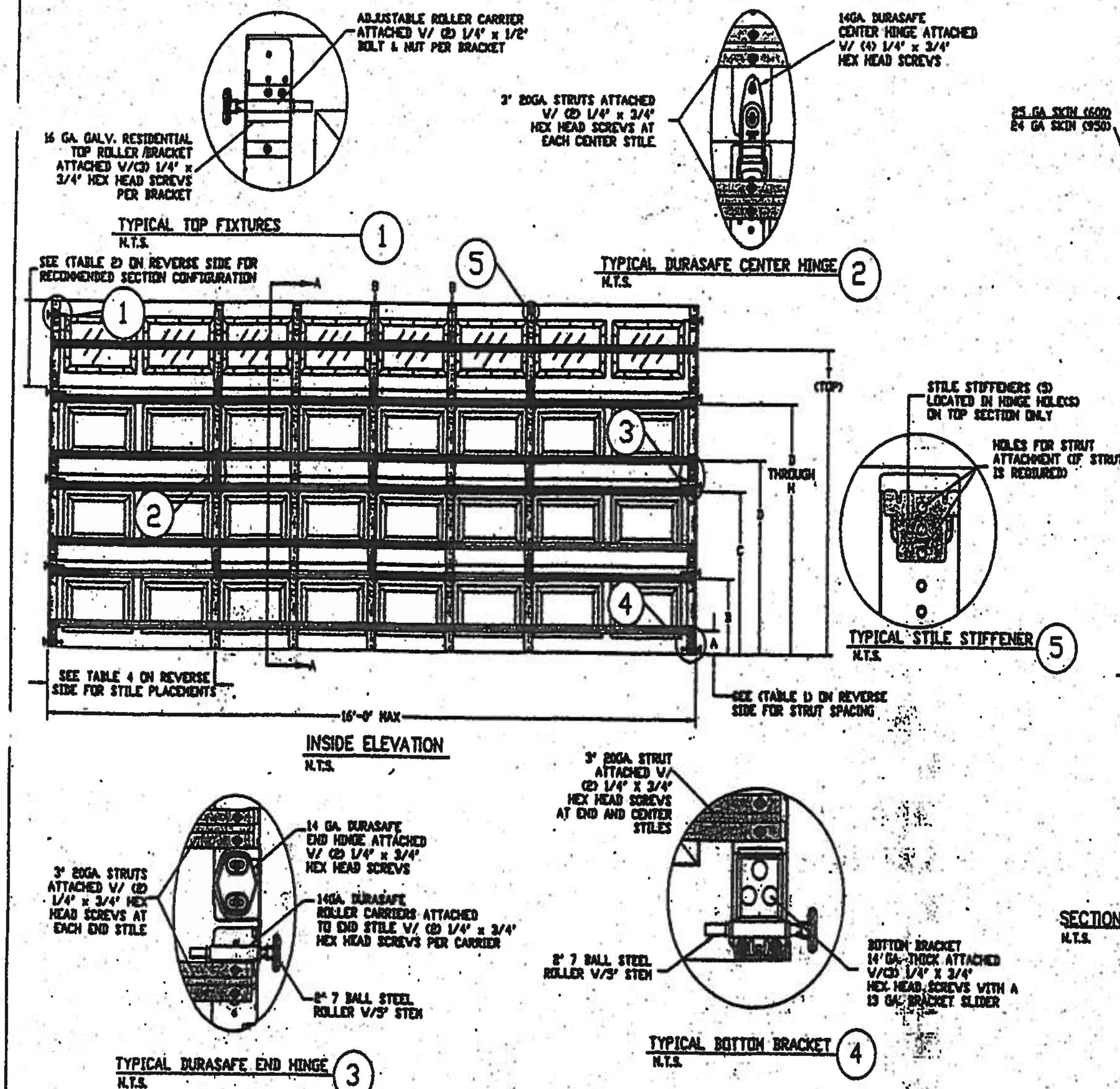
		Subcategory: Mullions	(717) 7
FL6023	New	MI Windows and Doors **Category:** Windows **Subcategory:** Casement	
FL6024	New	MI Windows and Doors **Category:** Windows **Subcategory:** Horizontal Slider	
FL6028	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	
FL6029	New	MI Windows and Doors **Category:** Windows **Subcategory:** Single Hung	
FL6489	New	MI Windows and Doors **Category:** Windows **Subcategory:** Mullions	Steven (717) 7
FL6499	New	MI Windows and Doors **Category:** Windows **Subcategory:** Single Hung	
FL6501	New	MI Windows and Doors **Category:** Windows **Subcategory:** Double Hung	
FL6502	New	MI Windows and Doors **Category:** Windows **Subcategory:** Horizontal Slider	
FL6503	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	
FL6679	New	MI Windows and Doors **Category:** Windows **Subcategory:** Fixed	

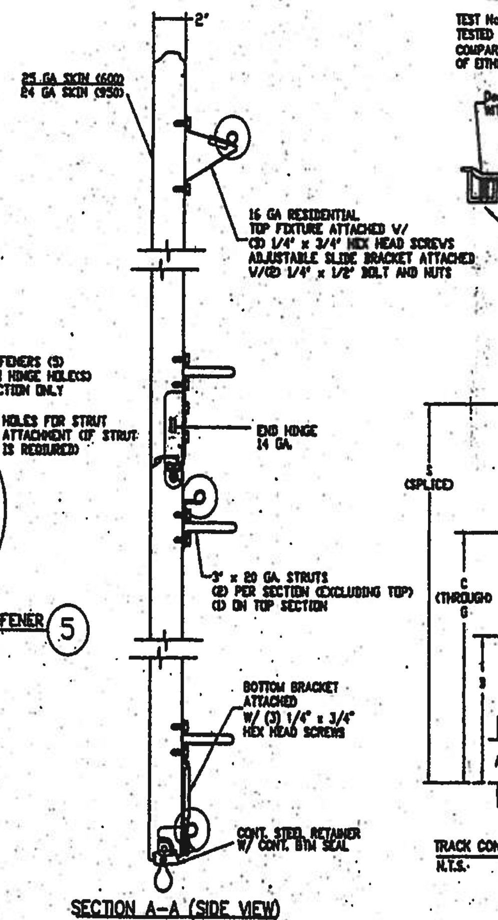
Go to Page GO!

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

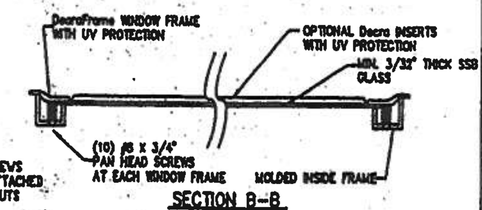

ADJUSTABLE ROLLER CARRIER ATTACHED W/ (2) 1/4" x 1/2" BOLT & NUT PER BRACKET
16 GA. GALV. RESIDENTIAL TOP ROLLER /BRACKET ATTACHED W/(3) 1/4" x 3/4" HEX HEAD SCREWS PER BRACKET
TYPICAL TOP FIXTURES
N.T.S.
14GA. DURASAFE CENTER HINGE ATTACHED W/ (4) 1/4" x 3/4" HEX HEAD SCREWS
3" 20GA. STRUTS ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH CENTER STILE
TYPICAL DURASAFE CENTER HINGE
N.T.S.
SEE (TABLE 2) ON REVERSE SIDE FOR RECOMMENDED SECTION CONFIGURATION
SEE TABLE 4 ON REVERSE SIDE FOR STILE PLACEMENTS
SEE (TABLE 1) ON REVERSE SIDE FOR STRUT SPACING
16'-0" MAX
INSIDE ELEVATION
N.T.S.
STILE STIFFENERS (3) LOCATED IN HINGE HOLE(S) ON TOP SECTION ONLY
HOLES FOR STRUT ATTACHMENT (IF STRUT IS REQUIRED)
TYPICAL STILE STIFFENER
N.T.S.
3" 20GA. STRUTS ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH END STILE
14 GA. DURASAFE END HINGE ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS
14GA. DURASAFE ROLLER CARRIERS ATTACHED TO END STILE W/ (2) 1/4" x 3/4" HEX HEAD SCREWS PER CARRIER
2" 7 BALL STEEL ROLLER W/5" STEM
TYPICAL DURASAFE END HINGE
N.T.S.
3" 20GA. STRUT ATTACHED W/ (2) 1/4" X 3/4" HEX HEAD SCREWS AT END AND CENTER STILES
2" 7 BALL STEEL ROLLER W/3" STEM
BOTTOM BRACKET 14' GA. THICK ATTACHED W/(3) 1/4" X 3/4" HEX HEAD SCREWS WITH A 13 GA. BRACKET SLIDER
TYPICAL BOTTOM BRACKET
N.T.S.

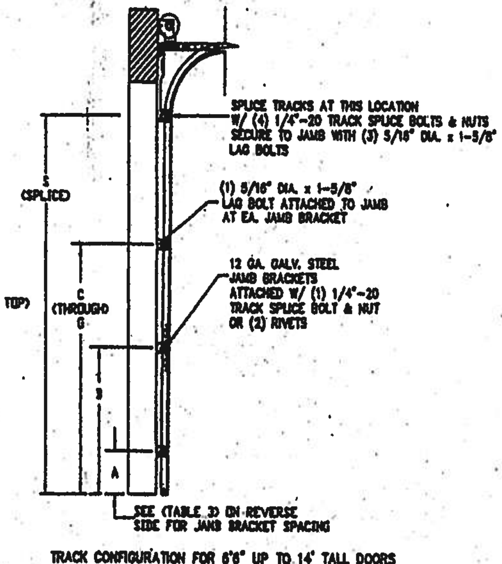

25 GA SKIN (600)
24 GA SKIN (950)
16 GA RESIDENTIAL TOP FIXTURE ATTACHED W/ (3) 1/4" x 3/4" HEX HEAD SCREWS ADJUSTABLE SLIDE BRACKET ATTACHED W/(2) 1/4" x 1/2" BOLT AND NUTS
END HINGE 14 GA.
3" x 20 GA. STRUTS (2) PER SECTION (EXCLUDING TOP) (1) ON TOP SECTION
BOTTOM BRACKET ATTACHED W/ (3) 1/4" x 3/4" HEX HEAD SCREWS
CONT. STEEL RETAINER W/ CONT. BTM SEAL
SECTION A-A (SIDE VIEW)
N.T.S.

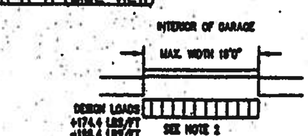
GLAZING OPTION CROSS SECTION

GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION

TEST No. IRC-6009-159-15 ON OCTOBER 10, 2002 INCLUDED GLAZING IN THE TESTED DOOR. THE TEST PRESSURES WERE +67.9 PSF AND -80.3 PSF. BY COMPARISON, UP TO EIGHT (8) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF EITHER THE MODEL 600 OR 950 DOORS CONSTRUCTED PER THIS DRAWING.

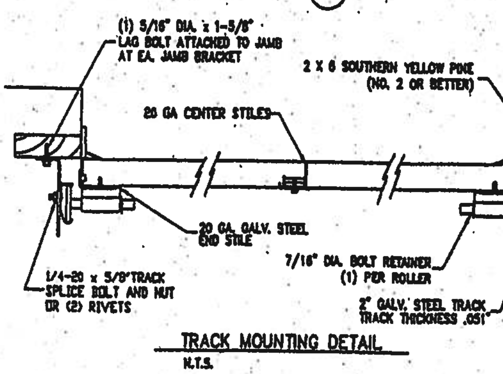



SPLICE TRACKS AT THIS LOCATION W/ (4) 1/4"-20 TRACK SPLICE BOLTS & NUTS SECURE TO JAMB WITH (3) 5/16" DIA. x 1-5/8" LAG BOLTS
(1) 5/16" DIA. x 1-5/8" LAG BOLT ATTACHED TO JAMB AT EA. JAMB BRACKET
12 GA. GALV. STEEL JAMB BRACKETS ATTACHED W/ (1) 1/4"-20 TRACK SPLICE BOLT & NUT OR (2) RIVETS
SEE (TABLE 3) ON REVERSE SIDE FOR JAMB BRACKET SPACING
TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS
N.T.S.



SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +174.4 LBS/FT & -188.4 LBS/FT
3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 25 GA. MIN. (.019") ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108, ASTM E330, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98 WITH THE FOLLOWING PARAMETERS:
   - A. BASIC WIND SPEED OF 120 MPH (PEAK GUST)
   - B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   - C. 30' OR LESS MEAN ROOF HEIGHT AT ANY SLOPE
   - D. USE FACTOR OF 1.0
   - E. EXPOSURE RATING OF B
7. REFER TO TABLES ON THE REVERSE SIDE FOR ADDITIONAL DOOR WIDTHS AND THEIR DESIGN PRESSURES


(1) 5/16" DIA. x 1-5/8" LAG BOLT ATTACHED TO JAMB AT EA. JAMB BRACKET
2 X 6 SOUTHERN YELLOW PINE (NO. 2 OR BETTER)
20 GA CENTER STILES
20 GA. GALV. STEEL END STILE
7/16" DIA. BOLT RETAINER (1) PER ROLLER
1/4-20 x 5/8"TRACK SPLICE BOLT AND NUT OR (2) RIVETS
2" GALV. STEEL TRACK TRACK THICKNESS .051"

TRACK MOUNTING DETAIL
N.T.S.

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 120 MPH PEAK GUST; EXPOSURE B, 30' OR LESS MEAN ROOF HEIGHT

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C.(1 1/4" EMBEDMENT)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+21.8 PSF
-24.8 PSF

TEST LOADS
+32.7 PSF
-37.2 PSF

JUN 0 3 2003

L. SHERERDINE ... CERTIFICATE ... STATE OF FLORIDA

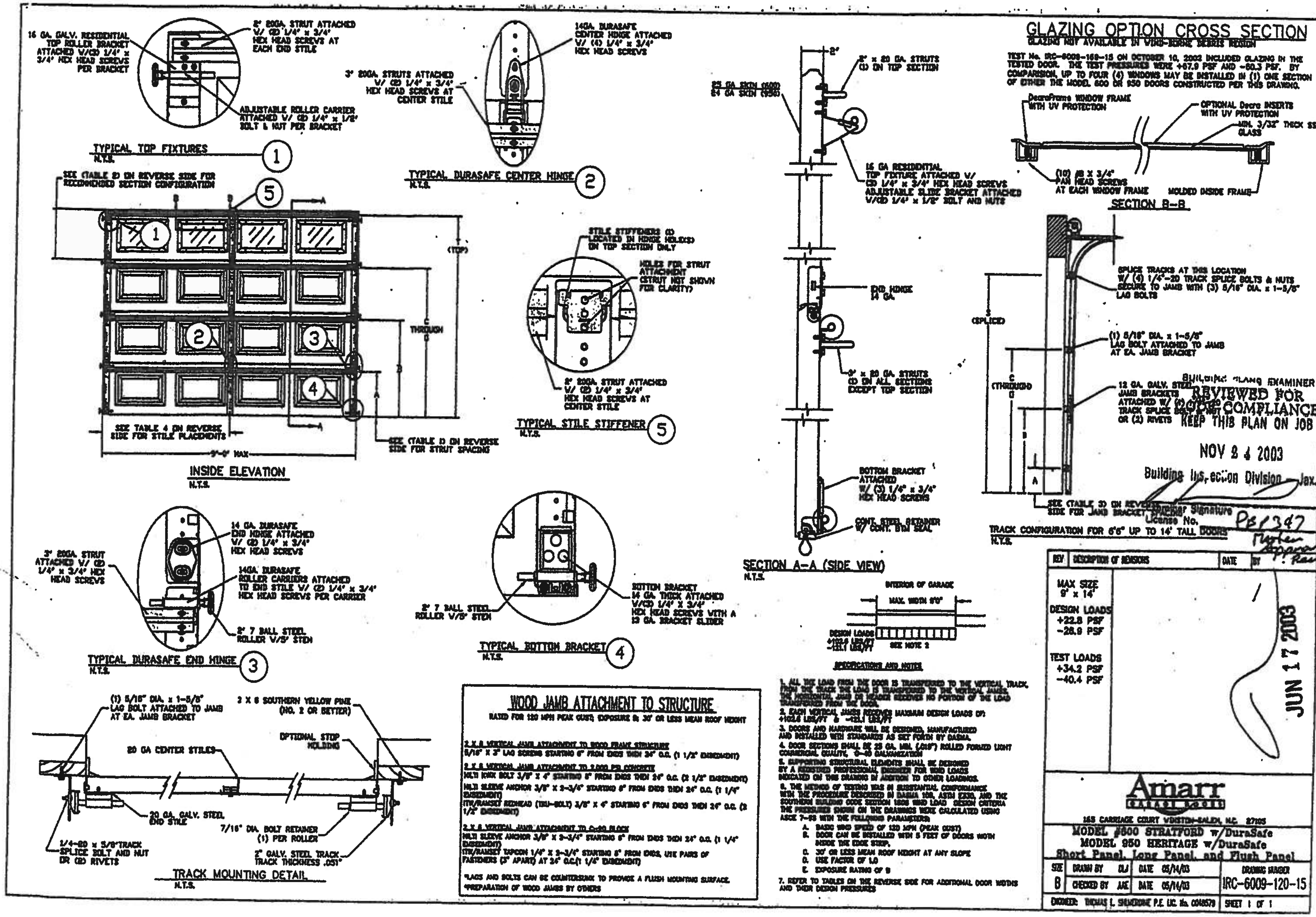
Amarr GARAGE DOORS
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

MODEL #600 STRATFORD w/DuraSafe
MODEL 950 HERITAGE w/DuraSafe
Short Panel, Long Panel, and Flush Panel

SIZE	DRAWN BY	TLJ	DATE 04/15/03	DRAWING NUMBER
B	CHECKED BY	AJE	DATE 04/15/03	IRC-6016-120-15

ENGINEER: THOMAS L. SHLUDONE P.E. LIC. No. 0048579 | SHEET 1 OF 1

9x7


TYPICAL TOP FIXTURES N.T.S. (1)
16 GA. GALV. RESIDENTIAL TOP ROLLER BRACKET ATTACHED W/(2) 1/4" x 3/4" HEX HEAD SCREWS PER BRACKET
2" 20GA. STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT EACH END STILE
ADJUSTABLE ROLLER CARRIER ATTACHED W/ (2) 1/4" x 1/2" BOLT & NUT PER BRACKET
TYPICAL DURASAFE CENTER HINGE N.T.S. (2)
14GA. DURASAFE CENTER HINGE ATTACHED W/ (4) 1/4" x 3/4" HEX HEAD SCREWS
3" 20GA. STRUTS ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT CENTER STILE
INSIDE ELEVATION N.T.S.
SEE (TABLE 2) ON REVERSE SIDE FOR RECOMMENDED SECTION CONFIGURATION
SEE TABLE 4 ON REVERSE SIDE FOR STILE PLACEMENTS
SEE (TABLE 1) ON REVERSE SIDE FOR STRUT SPACING
9'-0" MAX.
TYPICAL STILE STIFFENER N.T.S. (5)
STILE STIFFENERS (2) LOCATED IN HINGE HOLES ON TOP SECTION ONLY
HOLES FOR STRUT ATTACHMENT (STRUT NOT SHOWN FOR CLARITY)
2" 20GA. STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS AT CENTER STILE
TYPICAL DURASAFE END HINGE N.T.S. (3)
14 GA. DURASAFE END HINGE ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS
14GA. DURASAFE ROLLER CARRIERS ATTACHED TO END STILE W/ (2) 1/4" x 3/4" HEX HEAD SCREWS PER CARRIER
3" 20GA. STRUT ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS
2" 7 BALL STEEL ROLLER W/5" STEM
TYPICAL BOTTOM BRACKET N.T.S. (4)
BOTTOM BRACKET 14 GA. THICK ATTACHED W/(2) 1/4" X 3/4" HEX HEAD SCREWS WITH A 13 GA. BRACKET SLIDER
TRACK MOUNTING DETAIL N.T.S.
(1) 5/16" DIA. x 1-5/8" LAG BOLT ATTACHED TO JAMB AT EA. JAMB BRACKET
2 X 6 SOUTHERN YELLOW PINE (NO. 2 OR BETTER)
20 GA CENTER STILES
OPTIONAL STOP MOLDING
20 GA. GALV. STEEL END STILE
7/16" DIA. BOLT RETAINER (1) PER ROLLER
1/4-20 x 5/8"TRACK SPLICE BOLT AND NUT OR (2) RIVETS
2" GALV. STEEL TRACK TRACK THICKNESS .051"
SECTION A-A (SIDE VIEW) N.T.S.
25 GA SKIN (800) 24 GA SKIN (950)
2" x 20 GA. STRUTS (3) ON TOP SECTION
16 GA RESIDENTIAL TOP FIXTURE ATTACHED W/ (2) 1/4" x 3/4" HEX HEAD SCREWS ADJUSTABLE SLIDE BRACKET ATTACHED W/(2) 1/4" x 1/2" BOLT AND NUTS
END HINGE 14 GA.
2" x 20 GA. STRUTS (2) ON ALL SECTIONS EXCEPT TOP SECTION
BOTTOM BRACKET ATTACHED W/ (3) 1/4" x 3/4" HEX HEAD SCREWS
CONT. STEEL RETAINER W/ CONT. BTM SEAL
INTERIOR OF GARAGE
MAX. WIDTH 9'0"
DESIGN LOADS +102.6 LBS/FT -121.1 LBS/FT
SEE NOTE 2
GLAZING OPTION CROSS SECTION
GLAZING NOT AVAILABLE IN WIND-BORNE DEBRIS REGION
TEST No. IRC-6009-108-15 ON OCTOBER 10, 2002 INCLUDED GLAZING IN THE TESTED DOOR. THE TEST PRESSURES WERE +67.9 PSF AND -60.3 PSF. BY COMPARISON, UP TO FOUR (4) WINDOWS MAY BE INSTALLED IN (1) ONE SECTION OF EITHER THE MODEL 800 OR 950 DOORS CONSTRUCTED PER THIS DRAWING.
DecoFrame WINDOW FRAME WITH UV PROTECTION
OPTIONAL Deco INSERTS WITH UV PROTECTION
MIN. 3/32" THICK SSB GLASS
(10) #8 X 3/4" PAN HEAD SCREWS AT EACH WINDOW FRAME
MOLDED INSIDE FRAME
SECTION B-B
SPLICE TRACKS AT THIS LOCATION W/ (4) 1/4"-20 TRACK SPLICE BOLTS & NUTS SECURE TO JAMB WITH (3) 5/16" DIA. x 1-5/8" LAG BOLTS
(1) 5/16" DIA. x 1-5/8" LAG BOLT ATTACHED TO JAMB AT EA. JAMB BRACKET
12 GA. GALV. STEEL JAMB BRACKETS ATTACHED W/ (2) TRACK SPLICE BOLT & NUT OR (2) RIVETS
SEE (TABLE 3) ON REVERSE SIDE FOR JAMB BRACKET SPACING
TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS N.T.S.

WOOD JAMB ATTACHMENT TO STRUCTURE

RATED FOR 120 MPH PEAK GUST; EXPOSURE B; 30' OR LESS MEAN ROOF HEIGHT

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO C-90 BLOCK
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET TAPCON 1/4" X 2-3/4" STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 24" O.C.(1 1/4" EMBEDMENT)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +102.6 LBS/FT & -121.1 LBS/FT
3. DOORS AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 25 GA. MIN. (.018") ROLLED FORMED LIGHT COMMERCIAL QUALITY, G-40 GALVANIZATION
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
6. THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108, ASTM E330, AND THE SOUTHERN BUILDING CODE SECTION 1606 WIND LOAD DESIGN CRITERIA THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98 WITH THE FOLLOWING PARAMETERS:
   A. BASIC WIND SPEED OF 120 MPH (PEAK GUST)
   B. DOOR CAN BE INSTALLED WITH 5 FEET OF DOORS WIDTH INSIDE THE EDGE STRIP.
   C. 30' OR LESS MEAN ROOF HEIGHT AT ANY SLOPE
   D. USE FACTOR OF 1.0
   E. EXPOSURE RATING OF B
7. REFER TO TABLES ON THE REVERSE SIDE FOR ADDITIONAL DOOR WIDTHS AND THEIR DESIGN PRESSURES

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 9' x 14'
DESIGN LOADS +22.8 PSF -26.9 PSF
TEST LOADS +34.2 PSF -40.4 PSF

Amarr GARAGE DOORS
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105
MODEL #800 STRATFORD w/DuraSafe
MODEL 950 HERITAGE w/DuraSafe
Short Panel, Long Panel, and Flush Panel

SIZE	DRAWN BY	DJJ	DATE	05/14/03	DRAWING NUMBER
B	CHECKED BY	AAE	DATE	05/14/03	IRC-6009-120-15
ENGINEER: THOMAS L. SHUMBORNE P.E. LIC. No. C016579					SHEET 1 OF 1

JUN 17 2003

Building Plans Examiner
REVIEWED FOR CODE COMPLIANCE
KEEP THIS PLAN ON JOB
NOV 24 2003
Building Inspection Division — Jax, FL.
Examiner Signature
License No. PB1347

THE RENAISSANCE SERIES

Colonial

VENT-FREE GAS FIREPLACES

V32/36/42/50 Model Series

Offering Beauty, Value and Versatility

for builders

FIREPLACES FOR BUILDERS

Fmi

Colonial

VENT-FREE GAS FIREPLACES

V32/36/42/50 Model Series

Warm Up To A High-Efficiency Colonial

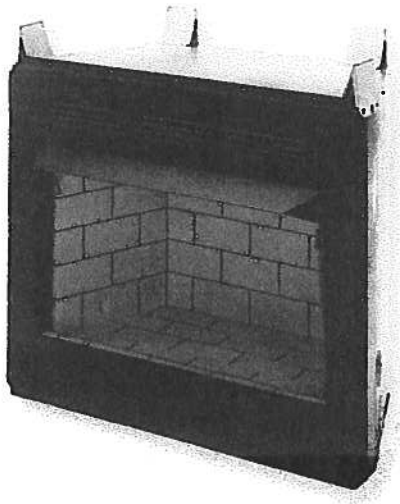
There's a growing demand for vent-free gas fireplaces because they're 99 percent energy-efficient and can be installed virtually anywhere. FMI's *Colonial* vent-free models deliver these benefits and more. They're part of our exciting new Renaissance Series, which offers a consistent look, sizing and construction across the entire line...plus beautiful new features homeowners will love!

Homeowner Highlights:

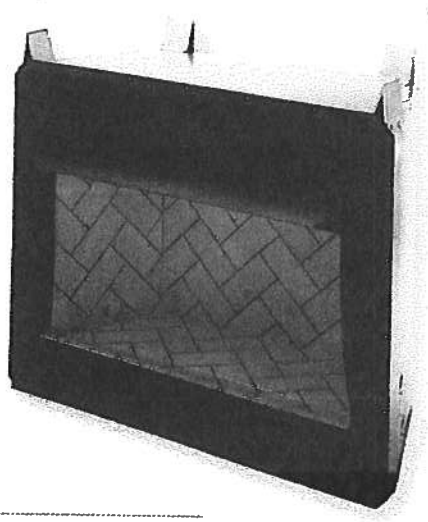
- **Visual appeal**—The industry's finest textured refractory brick liner (except 32") offers the attractive look of a true masonry fireplace.
- **Many luxury features are standard**—The Colonial comes standard with a heat deflection hood, hidden screen pockets (except 50"), stamped steel louvered panels, and other distinctive features.
- **Dollar-saving efficiency**—Paired with an Fmi vent free gas log heater, the systems 99% energy efficiency can provide dramatic energy savings.

Builder Benefits:

- **Straight, secure installation**—We've added full-length nailing flanges, and drywall stops.
- **Flexibility in the field**—You can quickly convert from louvered to clean face at any time (except 50").
- **Economical and versatile**—There's no chimney required. Can be installed virtually anywhere.



V36 is our louver-faced 36" fireplace with textured refractory brick-lined interior.

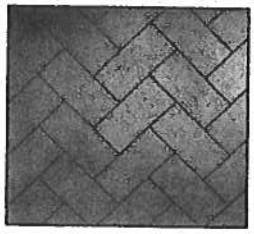


V42 is FMI's 42" louvered-face fireplace shown with optional herringbone textured refractory brick-lined interior.

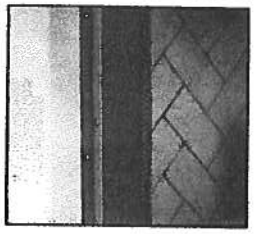
Colonial Vent-Free Fireplace Product Offering Summary

32", 36", 42" & 50" Vent-Free Fireplace Models Available With The Following:

- Clean or Louver (Circulating) Faced Models Available (Clean Faced only on 50")
- Traditional Stacked and Herringbone Pattern Refractory Brick-Lined Interiors
- Solid wrap or Outside Air Ready Models



The Colonial features the industry's finest textured refractory brick lining.

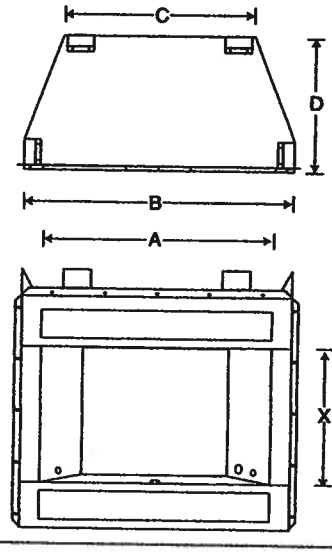


You get straight, solid installation, thanks to our full-length nailing flanges and drywall stops.

Accessory Offering Summary

- Rolled Black Louver Panels
- Louver Trim (Brushed Brass & Platinum)
- Decorative Filigree Panels (Black, Brushed Brass & Platinum)
- Perimeter Trim Kits (Black, Brushed Brass & Platinum)
- Heat Deflection Hoods (Brushed Brass & Platinum)
- Fan Kits
- Standard & Herringbone Refractory Brick Liners

Dimensions (For reference only. Not for installation)



	32"	36"	42"	50"
A	29 1/2	35	42	50
B	34 1/2	41	48	59
C	22 3/8	29	35 1/16	38 1/2
D	16 3/4	21	23 1/16	28 1/2
X	18 1/4	21	24	30
Y	32 1/4	36	40	49
Z	36 1/2	40 5/8	44 1/4	54 3/4

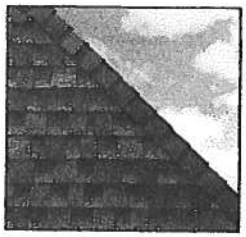
FIREPLACES FOR BUILDERS Fmi

Fmi Hearth Industries
www.fmifireplace.com
For more information, call (866) 328-4537

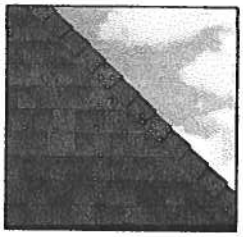
Made in USA

Printed in U.S.A.

ELK Roofing Products Specifications – Tuscaloosa, AL



PRESTIQUE®
HIGH DEFINITION®



RAISED PROFILE™

Prestique Plus *High Definition* and Prestique Gallery Collection™

Product size	13¼"x 39⅜"
Exposure	5⅝"
Pieces/Bundle	16
Bundles/Square	4/98.5 sq.ft.
Squares/Pallet	11

50-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Raised Profile

Product size	13¼"x 38⅜"
Exposure	5⅝"
Pieces/Bundle	22
Bundles/Square	3/100 sq.ft.
Squares/Pallet	16

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Prestique I *High Definition*

Product size	13¼"x 39⅜"
Exposure	5⅝"
Pieces/Bundle	16
Bundles/Square	4/98.5 sq.ft.
Squares/Pallet	14

40-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

Prestique *High Definition*

Product size	13¼"x 38⅜"
Exposure	5⅝"
Pieces/Bundle	22
Bundles/Square	3/100 sq.ft.
Squares/Pallet	16

30-year limited warranty period: non-prorated coverage for shingles and application labor for the initial 5 years, plus an option for transferability*; prorated coverage for application labor and shingles for balance of limited warranty period; 5-year limited wind warranty*.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/*FLX*™

Size: 12"x 12"
Exposure: 6⅓"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood**, Forest Green, Wedgewood**, Birchwood**, Sandalwood. Gallery Collection: Balsam Forest**, Weathered Sage**, Sienna Sunset**.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

*See actual limited warranty for conditions and limitations.
**Check for product availability.

Specifications

Scope: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula *FLX*.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

Preparation of Roof Deck: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

Materials: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes (4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)), use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula *FLX* with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

Southeast & Atlantic Office: 800.945.5551

Corporate Headquarters: 800.354.7732

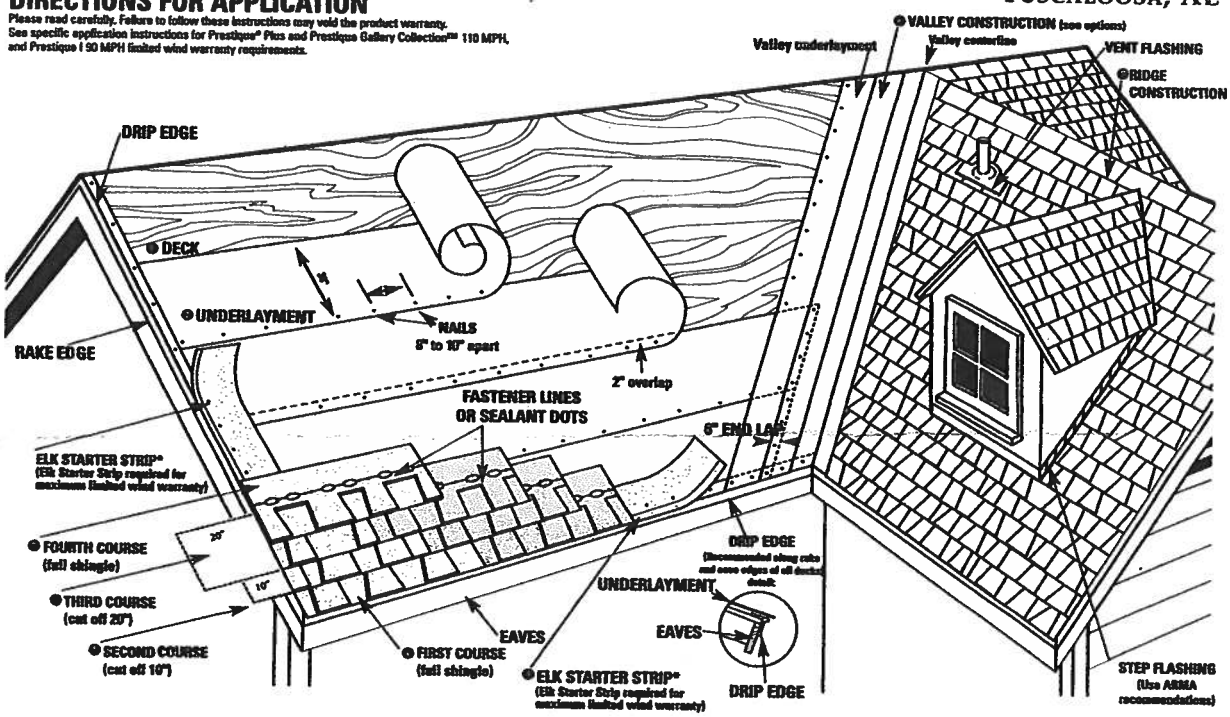
Plant Location: 800.945.5545

ELK
www.elkcorp.com

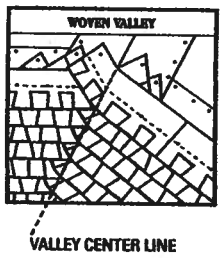
TUSCALOOSA, AL

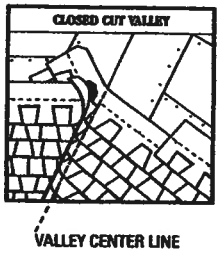
DIRECTIONS FOR APPLICATION

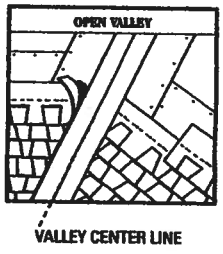
Please read carefully. Failure to follow these instructions may void the product warranty. See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH, and Prestique I 90 MPH limited wind warranty requirements.



VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual.







DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

❶ DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

❷ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 19". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

❸ STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

❹ FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof.

❺ SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

❻ THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

❼ FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

❽ VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 16" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

❾ RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula *FLX*™ (See ridge package for installation instructions.)

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

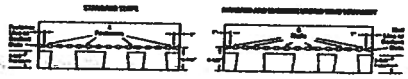
Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

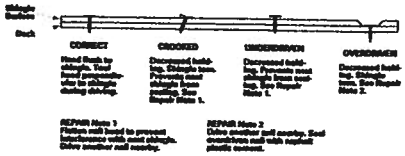
LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake



HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.
All Prestique and Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

ELK

www.elkcorp.com

FLORIDA DEPARTMENT OF Community Affairs

DCA HOME | ABOUT DCA | DCA PROG

BCIS Home | Log In | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | B

Community Affairs

- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- BUILDING CODES
- FLORIDA COMMUNITIES TRUST
- FRONT PORCH FLORIDA
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY
- NEWS
- FREQUENTLY ASKED QUESTIONS
- ABOUT OUR SECRETARY
- E-MAIL THE SECRETARY
- INSPECTOR GENERAL
- WEB ASSISTANCE
- CONTACT US
- OUR LOGO
- DCA EMPLOYEE SERVICES

Product Approval

USER: Public User

Product Approval Menu > Product or Application Search > **Application List**

Search Criteria

Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	JORDAN WIND
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

FL#	Type	Manufacturer	Validat
FL1378-R1 History	Revision	JORDAN WINDOWS and DOORS **Category:** Windows **Subcategory:** Single Hung	
FL1384-R1 History	Revision	JORDAN WINDOWS and DOORS **Category:** Windows **Subcategory:** Horizontal Slider	
FL1385-R1 History	Revision	JORDAN WINDOWS and DOORS **Category:** Windows **Subcategory:** Fixed	
FL1386-R1 History	Revision	JORDAN WINDOWS and DOORS **Category:** Exterior Doors **Subcategory:** Sliding Exterior Door Assemblies	
FL2685-R1 History	Revision	JORDAN WINDOWS and DOORS **Category:** Windows **Subcategory:** Mullions	Steven (717) 7
FL2946-R1 History	Revision	JORDAN WINDOWS and DOORS **Category:** Windows **Subcategory:** Awning	
FL2949-R1 History	Revision	JORDAN WINDOWS and DOORS **Category:** Windows **Subcategory:** Casement	

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard

FLORIDA DEPARTMENT OF Community Affairs

DCA HOME | ABOUT DCA | DCA PROG

BCIS Home | Log In | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | B

Community Affairs

- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- BUILDING CODES
- FLORIDA COMMUNITIES TRUST
- FRONT PORCH FLORIDA
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY
- NEWS
- FREQUENTLY ASKED QUESTIONS
- ABOUT OUR SECRETARY
- E-MAIL THE SECRETARY
- INSPECTOR GENERAL
- WEB ASSISTANCE
- CONTACT US
- OUR LOGO
- DCA EMPLOYEE SERVICES

Product Approval

USER: Public User

Product Approval Menu > Product or Application Search > **Application List**

Search Criteria			
Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	Masonit
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

FL#	Type	Manufacturer	Validated By
FL4242-R1 History	Revision	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL4334-R1 History	Revision	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL4668-R1 History	Revision	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL4904	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL4940	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL5114	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL5465	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door	

		Assemblies	
FL5507	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL5508	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL6015	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL6506-R1 History	Revision	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL6509	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL7050	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	
FL7091	New	Masonite International **Category:** Exterior Doors **Subcategory:** Swinging Exterior Door Assemblies	

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

Notice of Treatment 12292

Applicator: **Florida Pest Control & Chemical Co. (www.flapest .com)**
Address: BAYA AVE
City Lake City Phone 752-1705

Site Location: Subdivision Wise Estates
Lot # 35 Block# C Permit # 25130
Address 209 SW Plateau Gln

Product used	**Active Ingredient**	**% Concentration**
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☐ Soil ☐ Wood

Area Treated	**Square feet**	**Linear feet**	**Gallons Applied**
Dwelling	2031	171	4

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

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

12/16/16	13:40	
Date	Time	Print Technician's Name

Remarks: ______________________________

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©

Residential System Sizing Calculation

Summary

Spec House

, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

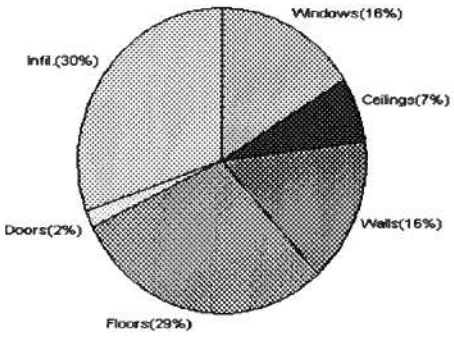
10/10/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**28044**	**Btuh**	**Total cooling load calculation**	**23200**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	117.7	33000	Sensible (SHR = 0.75)	140.3	24750
Heat Pump + Auxiliary(0.0kW)	117.7	33000	Latent	148.5	8250
			Total (Electric Heat Pump)	142.2	33000

WINTER CALCULATIONS

Winter Heating Load (for 1657 sqft)

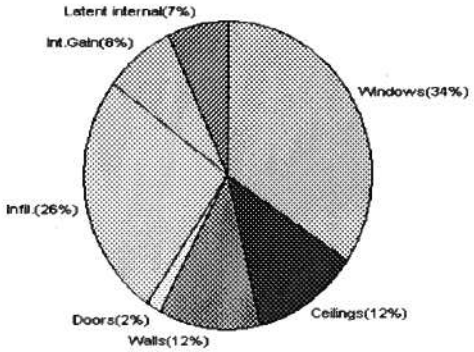
Load component			Load	
Window total	141	sqft	4539	Btuh
Wall total	1331	sqft	4371	Btuh
Door total	40	sqft	518	Btuh
Ceiling total	1657	sqft	1953	Btuh
Floor total	189	sqft	8252	Btuh
Infiltration	208	cfm	8412	Btuh
Duct loss			0	Btuh
Subtotal			**28044**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**28044**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1657 sqft)

Load component			Load	
Window total	141	sqft	7966	Btuh
Wall total	1331	sqft	2686	Btuh
Door total	40	sqft	392	Btuh
Ceiling total	1657	sqft	2744	Btuh
Floor total			0	Btuh
Infiltration	108	cfm	2015	Btuh
Internal gain			1840	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**17643**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3956	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**5556**	**Btuh**
TOTAL HEAT GAIN			**23200**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 10-10-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House
, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

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

10/10/2006

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	SE	15.0	32.2	483 Btuh
5	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
	Window Total		141(sqft)		4539 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1175	3.3	3859 Btuh
2	Frame - Wood - Adj(0.09)	13.0	156	3.3	512 Btuh
	Wall Total		1331		4371 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	1657	1.2	1953 Btuh
	Ceiling Total		1657		1953Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	189.0 ft(p)	43.7	8252 Btuh
	Floor Total		189		8252 Btuh
			Zone Envelope Subtotal:		19632 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.94	13256	207.7	8412 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**28044 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	28044 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	28044 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(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

Spec House
, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

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

10/10/2006

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh
3	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	SE	15.0	32.2	483 Btuh
5	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh
	Window Total		141(sqft)		4539 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1175	3.3	3859 Btuh
2	Frame - Wood - Adj(0.09)	13.0	156	3.3	512 Btuh
	Wall Total		1331		4371 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	1657	1.2	1953 Btuh
	Ceiling Total		1657		1953Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	189.0 ft(p)	43.7	8252 Btuh
	Floor Total		189		8252 Btuh
			Zone Envelope Subtotal:		19632 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.94	13256	207.7	8412 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**28044 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	28044 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	28044 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(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

Spec House
, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 10/10/2006

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

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161 Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468 Btuh
	Window Total				141 (sqft)					7966 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1175.0	2.1	2451 Btuh
2	Frame - Wood - Adj	13.0/0.09	156.0	1.5	235 Btuh
	Wall Total		1331 (sqft)		2686 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1657.0	1.7	2744 Btuh
	Ceiling Total		1657 (sqft)		2744 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	189 (ft(p))	0.0	0 Btuh
	Floor Total		189.0 (sqft)		0 Btuh

				Zone Envelope Subtotal:	13789 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.49	13256	108.3	2015 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		8	X 230 +	0	1840 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
				Sensible Zone Load	**17643 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

10/10/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**17643 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**17643 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**17643 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3956 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5556 Btuh**
	TOTAL GAIN	**23200 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

Spec House
, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

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

10/10/2006

Component Loads for Zone #1: Main

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	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161 Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh
4	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
5	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	29	63	1468 Btuh
	Window Total				141 (sqft)					7966 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1175.0	2.1	2451 Btuh
2	Frame - Wood - Adj	13.0/0.09	156.0	1.5	235 Btuh
	Wall Total		1331 (sqft)		2686 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1657.0	1.7	2744 Btuh
	Ceiling Total		1657 (sqft)		2744 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	189 (ft(p))	0.0	0 Btuh
	Floor Total		189.0 (sqft)		0 Btuh

			Load
	Zone Envelope Subtotal:		13789 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.49	13256	108.3	2015 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	8	X 230 +	0	1840 Btuh

Duct load			Load
	Unsealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh

		Load
	Sensible Zone Load	**17643 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
, FL

Project Title:
609085KeenRichard

Class 3 Rating
Registration No. 0
Climate: North

10/10/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**17643 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**17643 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**17643 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3956 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5556 Btuh**
	TOTAL GAIN	**23200 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

Spec House

, FL

Project Title:
609085KeenRichard

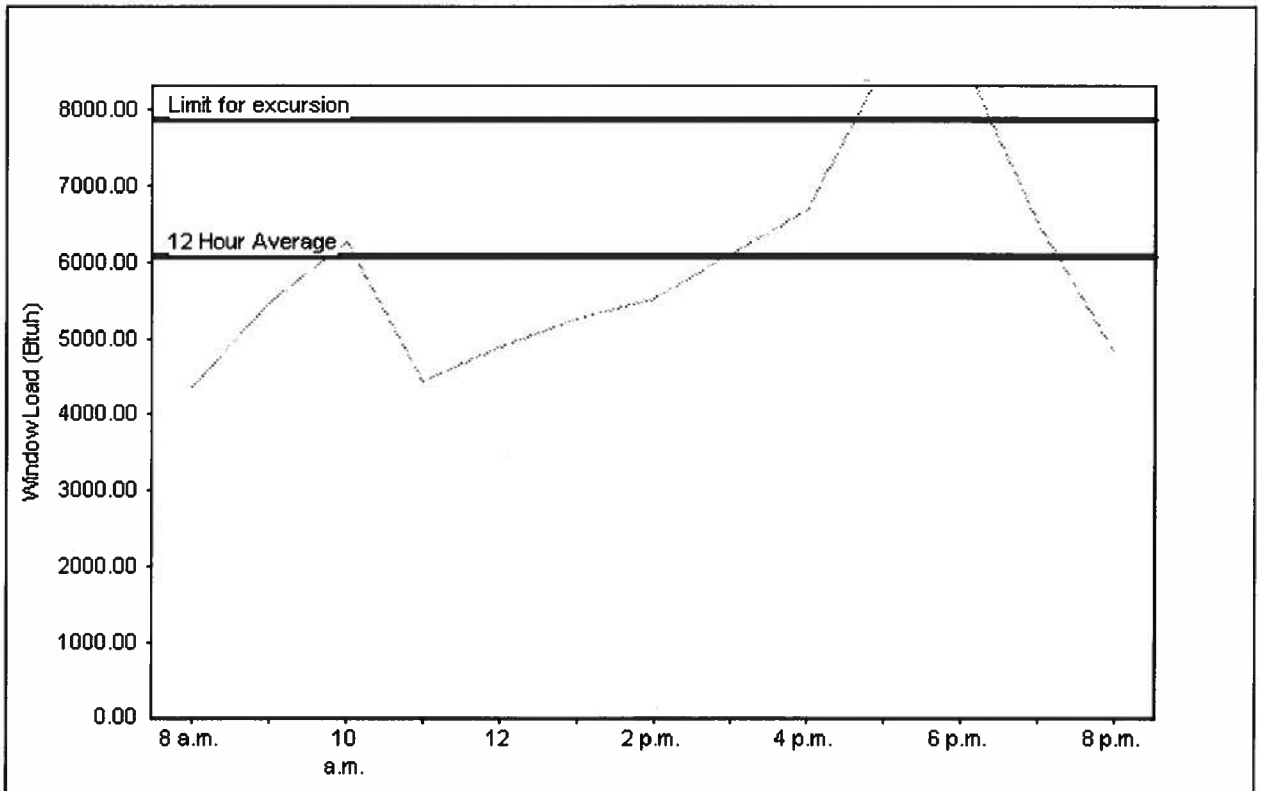
Class 3 Rating
Registration No. 0
Climate: North

10/10/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	6067 Btuh
Summer setpoint	75 F	Peak window load for July	8703 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	7887 Btuh
Latitude	29 North	Window excursion (July)	816 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 10-10-06

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 24-4S-16-03113-165 **Building permit No.** 000025130

Use Classification SFD,UTILITY **Fire:** 39.06

Permit Holder JAMES JOHNSTON **Waste:** 117.25

Owner of Building RICHARD KEEN **Total:** 156.31

Location: 240 SW PLATEAU GLEN, WISE ESTATES LOT 35-C

Date: 03/15/2007

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Project Information for:	L208875		
Builder:	RICHARD KEEN	Date:	8/29/2006
Lot:	LOT 35	Start Number:	**1043**
Subdivision:	WISE ESTATES	SEI Ref:	L208875
County or City:	COLUMBIA COUNTY		
Truss Page Count:	26		

Truss Design Load Information (UNO) Design Program: MiTek

Gravity		**Wind**		**Building Code:**	**FBC2004**
Roof (psf):	**42**	Wind Standard:	**ASCE 7-02**		
Floor (psf):	55	Wind Speed (mph):	**110**		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

JOHNSTON,JAMES H III RC0067161
Address: 650 SOUTHWEST MAIN BOULEVARD
LAKE CITY, FL 32024 Designer: **72**

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address 16105 N. Florida Ave, Ste B, Lutz, FL 33549 Phone: 813-849-5769

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for veritcal loads only, unless noted otherwise.
5. Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitablity and use of Carrying Member hanger capacity.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0829061043	8/29/2006				
2	CJ3	0829061044	8/29/2006				
3	CJ5	0829061045	8/29/2006				
4	EJ7	0829061046	8/29/2006				
5	HJ9	0829061047	8/29/2006				
6	T01	0829061048	8/29/2006				
7	T01G	0829061049	8/29/2006				
8	T02	0829061050	8/29/2006				
9	T02G	0829061051	8/29/2006				
10	T03	0829061052	8/29/2006				
11	T04	0829061053	8/29/2006				
12	T05	0829061054	8/29/2006				
13	T06	0829061055	8/29/2006				
14	T07	0829061056	8/29/2006				
15	T08	0829061057	8/29/2006				
16	T09	0829061058	8/29/2006				
17	T10	0829061059	8/29/2006				
18	T11	0829061060	8/29/2006				
19	T12	0829061061	8/29/2006				
20	T13	0829061062	8/29/2006				
21	T14	0829061063	8/29/2006				
22	T15	0829061064	8/29/2006				
23	T16	0829061065	8/29/2006				
24	T17	0829061066	8/29/2006				
25	T18	0829061067	8/29/2006				
26	T19	0829061068	8/29/2006				

AUG 29 2006

Log On

4:25:30 PM

Public Services

- Search for a Licensee
- Apply for a License
- View Application Status
- Apply to Retake Exam
- Find Exam Information
- File a Complaint
- AB&T Delinquent Invoice & Activity List Search

User Services

- Renew a License
- Change License Status
- Maintain Account
- Change My Address
- View Messages
- Change My PIN
- View Continuing Ed

Term Glossary

Online Help

Licensee Details

Licensee Information

Name:	**JOHNSTON, JAMES H III (Primary Name)** **INDIVIDUAL (DBA Name)**
Main Address:	**650 SOUTHWEST MAIN BOULEVARD** **LAKE CITY Florida 32024**
County:	**COLUMBIA**
License Mailing:	
LicenseLocation:	**RT #15 BOX 3693** **LAKE CITY FL 32024**
County:	**COLUMBIA**

License Information

License Type:	**Registered Roofing Contractor**
Rank:	**Reg Roofing**
License Number:	**RC0067161**
Status:	**Current,Inactive**
Licensure Date:	**08/27/1998**
Expires:	**08/31/2005**
Special Qualifications	**Qualification Effective**
Bldg Code Core Course Credit	
No Qualified Business License Required	**02/20/2004**

View Related License Information

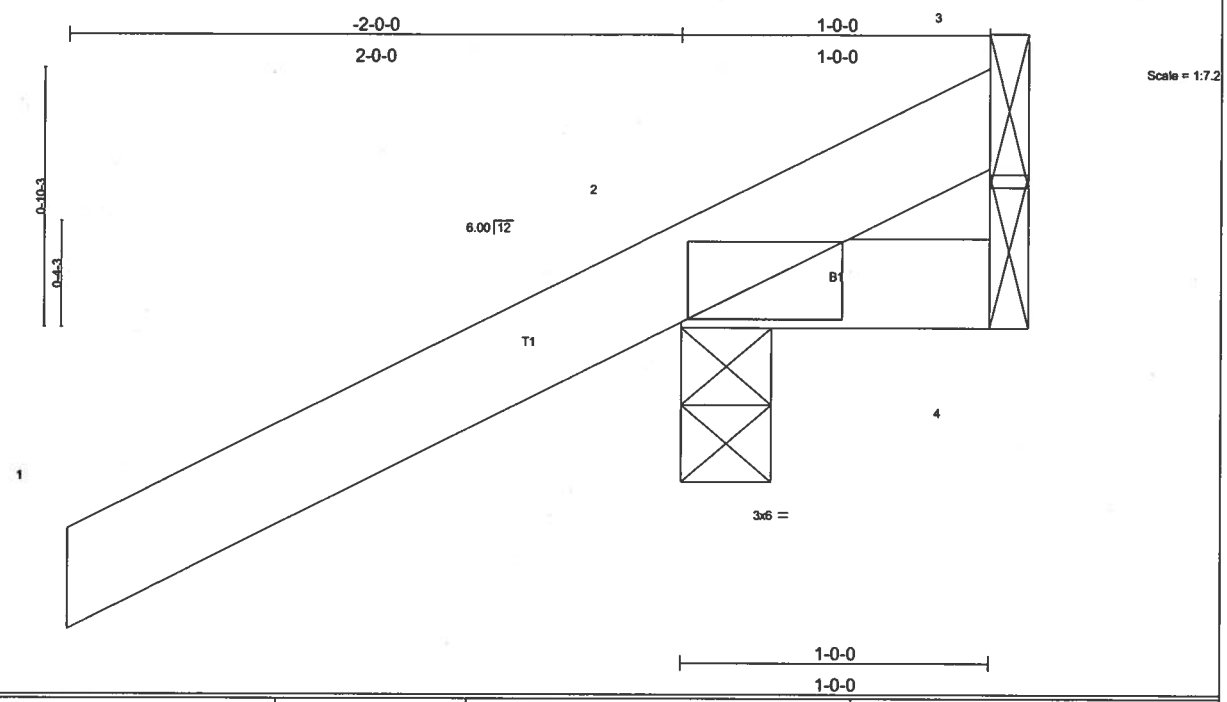
View License Complaint

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING & INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061043

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	CJ1	JACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:34 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 7 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=266/0-3-8, 4=14/Mechanical, 3=-90/Mechanical
Max Horz 2=87(load case 5)
Max Uplift2=-274(load case 5), 3=-90(load case 1)
Max Grav 2=266(load case 1), 4=14(load case 1), 3=127(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-69/75
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.14

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 2 and 90 lb uplift at joint 3.

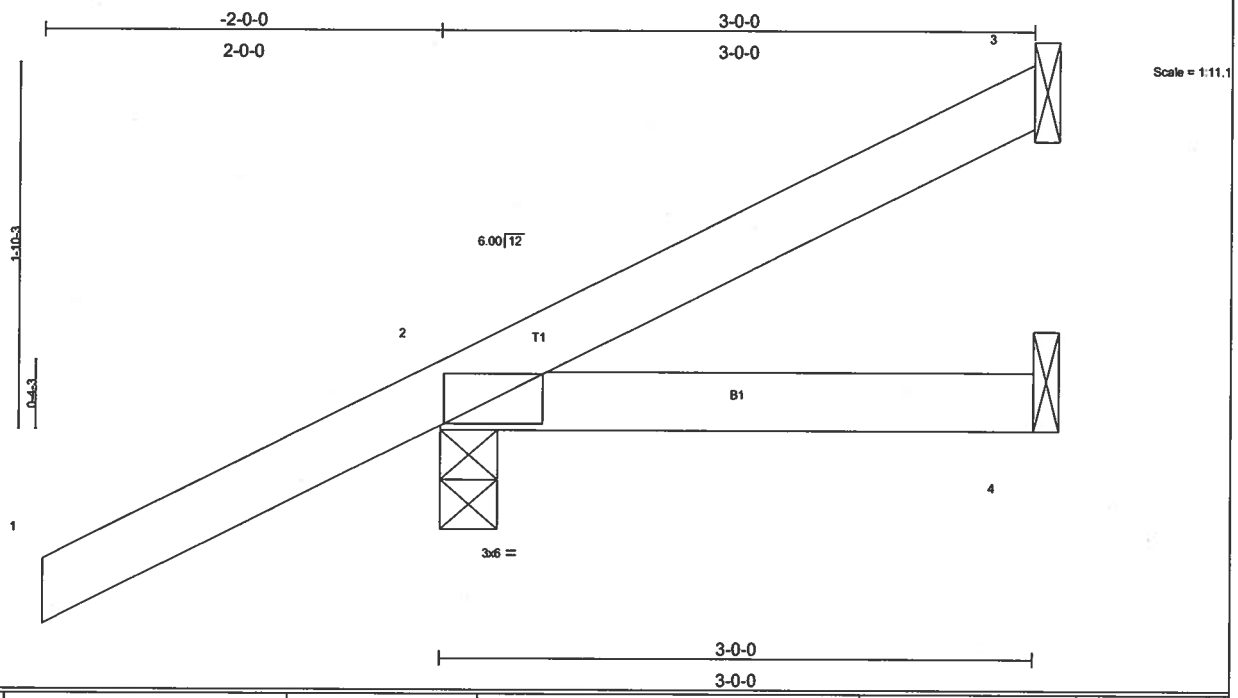
LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061044

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	CJ3	JACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:36 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.01	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical
Max Horz 2=132(load case 5)
Max Uplift3=-28(load case 6), 2=-203(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-57/7
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.13

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3 and 203 lb uplift at joint 2.

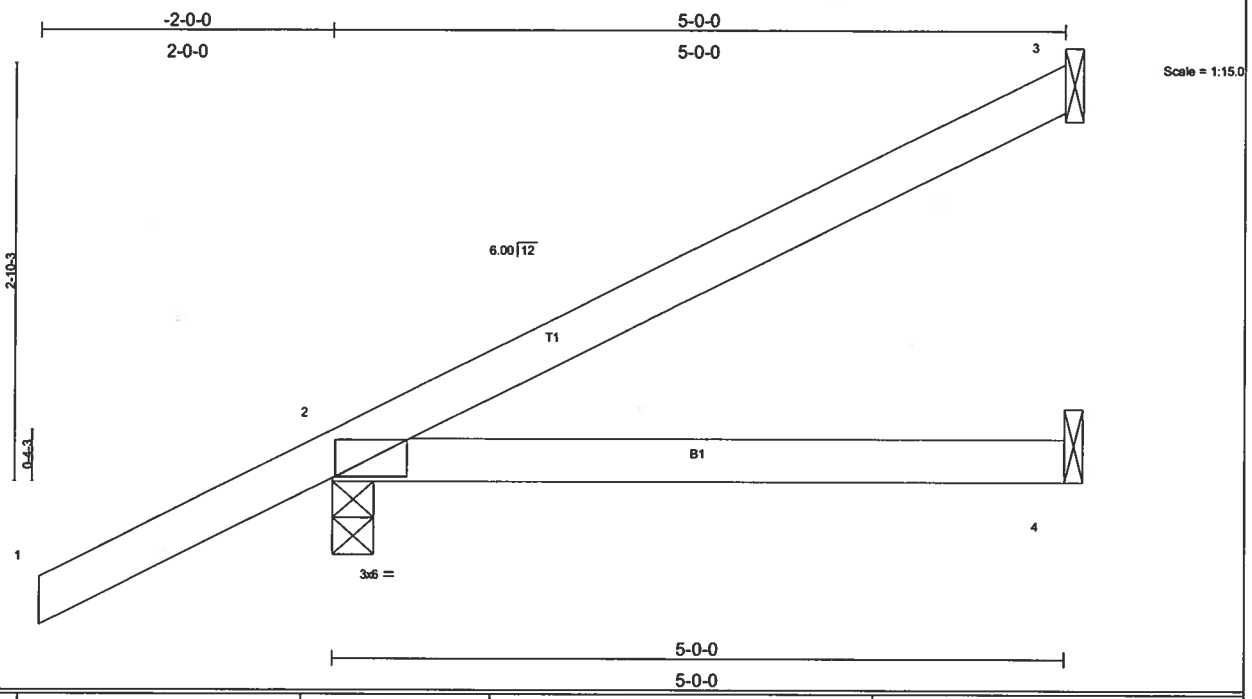
LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061045

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	CJ5	JACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:36 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	2-4	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 19 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift3=-87(load case 5), 2=-199(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-88/36
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.15

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3 and 199 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061046

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	EJ7	JACK	23	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:38 2006 Page 1

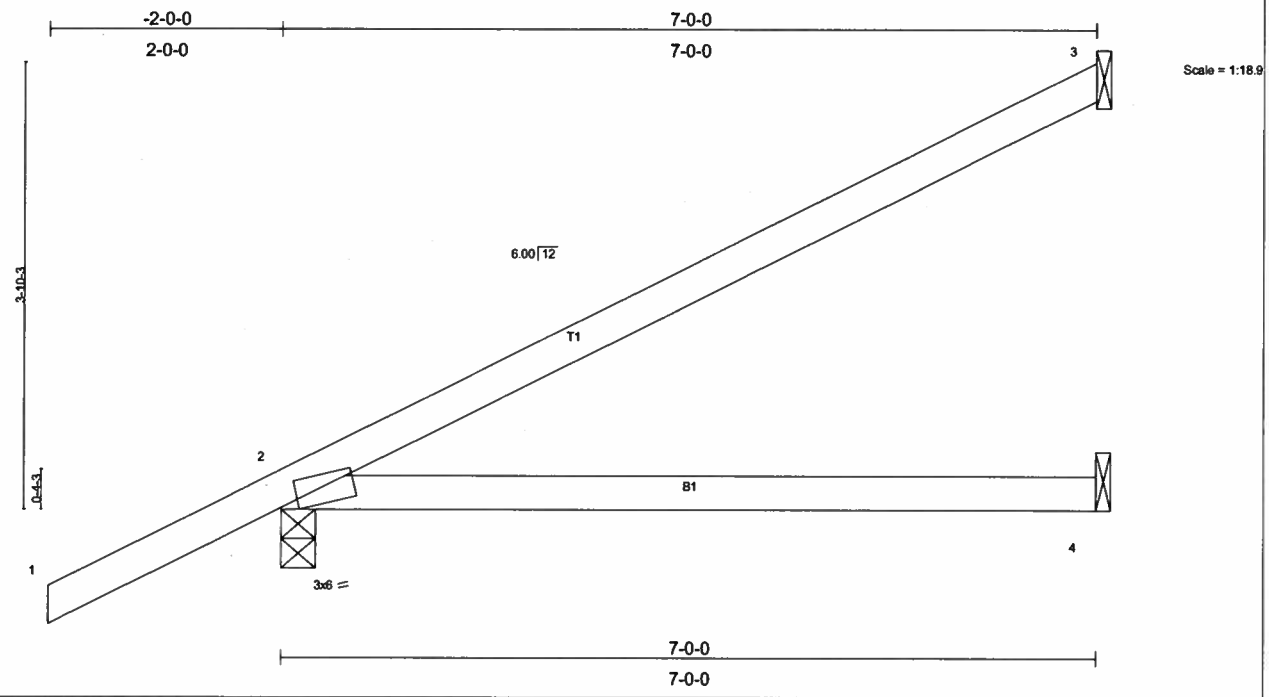


Plate Offsets (X,Y): [2:0-1-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.12	2-4	>664	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.21	2-4	>397	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=162/Mechanical, 2=419/0-3-8, 4=104/Mechanical
Max Horz 2=224(load case 5)
Max Uplift3=-134(load case 5), 2=-210(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-119/58
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.79

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 3 and 210 lb uplift at joint 2.

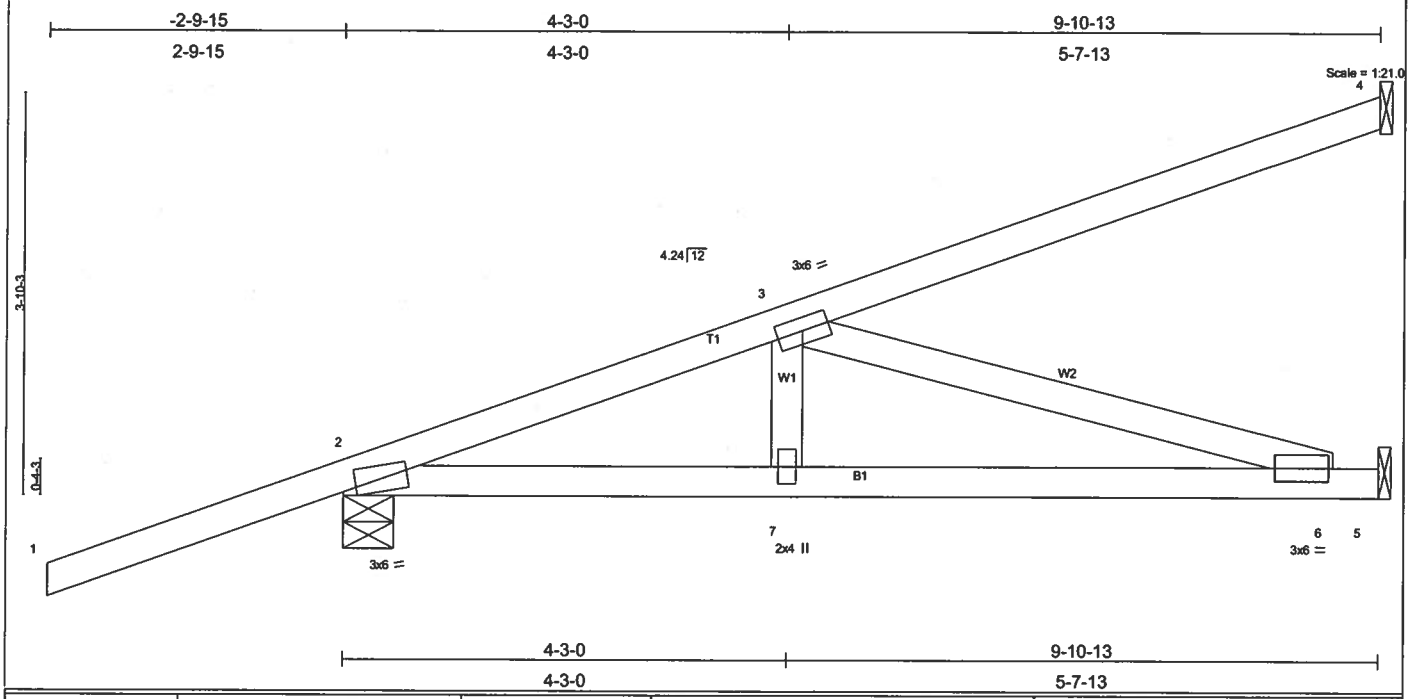
LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061047

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	HJ9	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:39 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	-0.11	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.18	6-7	>626	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.46	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 45 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=270/Mechanical, 2=535/0-5-11, 5=374/Mechanical
Max Horz 2=268(load case 2)
Max Uplift4=-231(load case 2), 2=-280(load case 2), 5=-63(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-872/117, 3-4=-105/66
BOT CHORD 2-7=-306/805, 6-7=-306/805, 5-6=0/0
WEBS 3-7=0/189, 3-6=-840/319

JOINT STRESS INDEX
2 = 0.76, 3 = 0.22, 6 = 0.24 and 7 = 0.14

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 4, 280 lb uplift at joint 2 and 63 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-3(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=-0(F=15, B=15)-to-5=-74(F=-22, B=-22)

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ. FL 33549

Dwg.#0829061048

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T01	COMMON	7	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:40 2006 Page 1

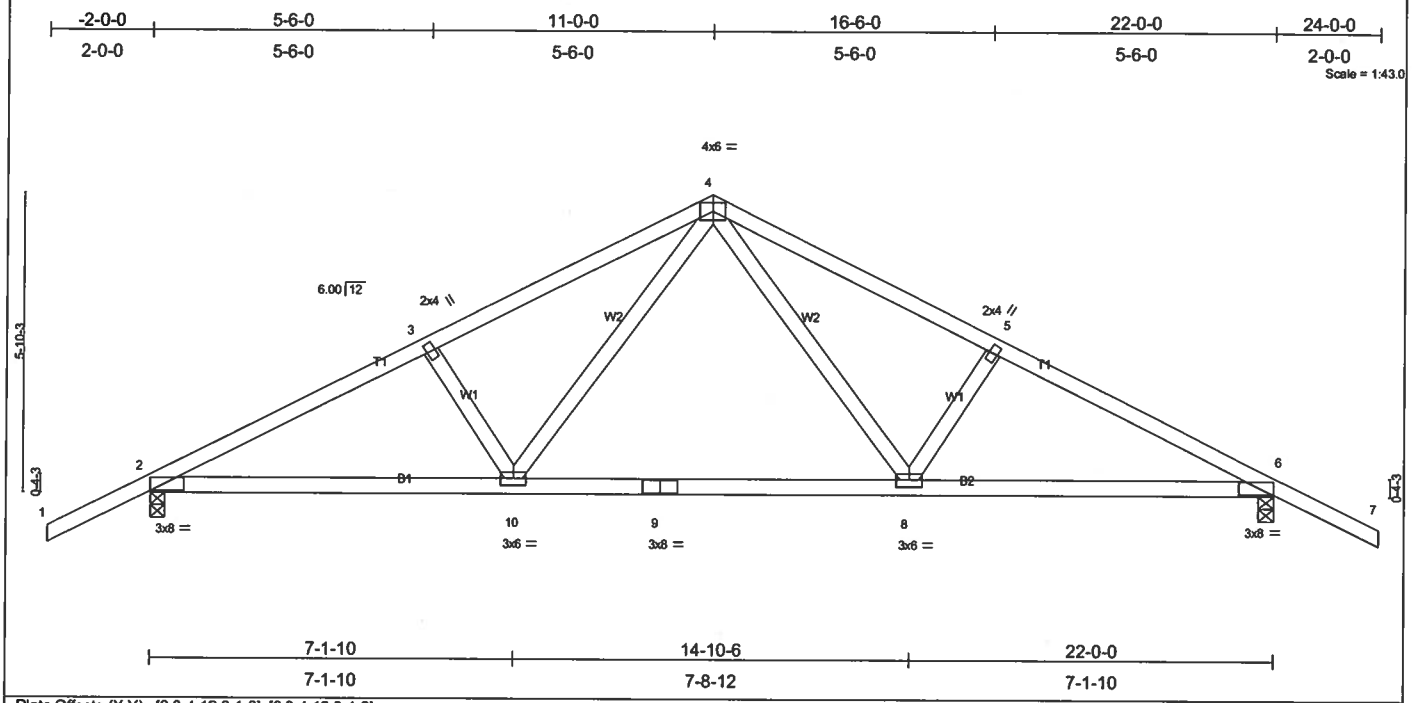


Plate Offsets (X,Y): [2:0-4-12,0-1-8], [6:0-4-12,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.30	8-10	>883	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.48	8-10	>545	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 105 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-9 oc bracing.

REACTIONS (lb/size) 2=1221/0-3-8, 6=1221/0-3-8
Max Horz 2=-115(load case 6)
Max Uplift2=-495(load case 5), 6=-495(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-2010/829, 3-4=-1859/830, 4-5=-1859/830, 5-6=-2010/829, 6-7=0/47
BOT CHORD 2-10=-570/1724, 9-10=-281/1157, 8-9=-281/1157, 6-8=-570/1724
WEBS 3-10=-241/230, 4-10=-291/802, 4-8=-291/802, 5-8=-241/230

JOINT STRESS INDEX
2 = 0.75, 3 = 0.34, 4 = 0.68, 5 = 0.34, 6 = 0.75, 8 = 0.59, 9 = 0.94 and 10 = 0.59

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 495 lb uplift at joint 2 and 495 lb uplift at joint 6.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-10=-30, 8-10=-80(F=-50), 6-8=-30

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061049

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T01G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:41 2006 Page 1

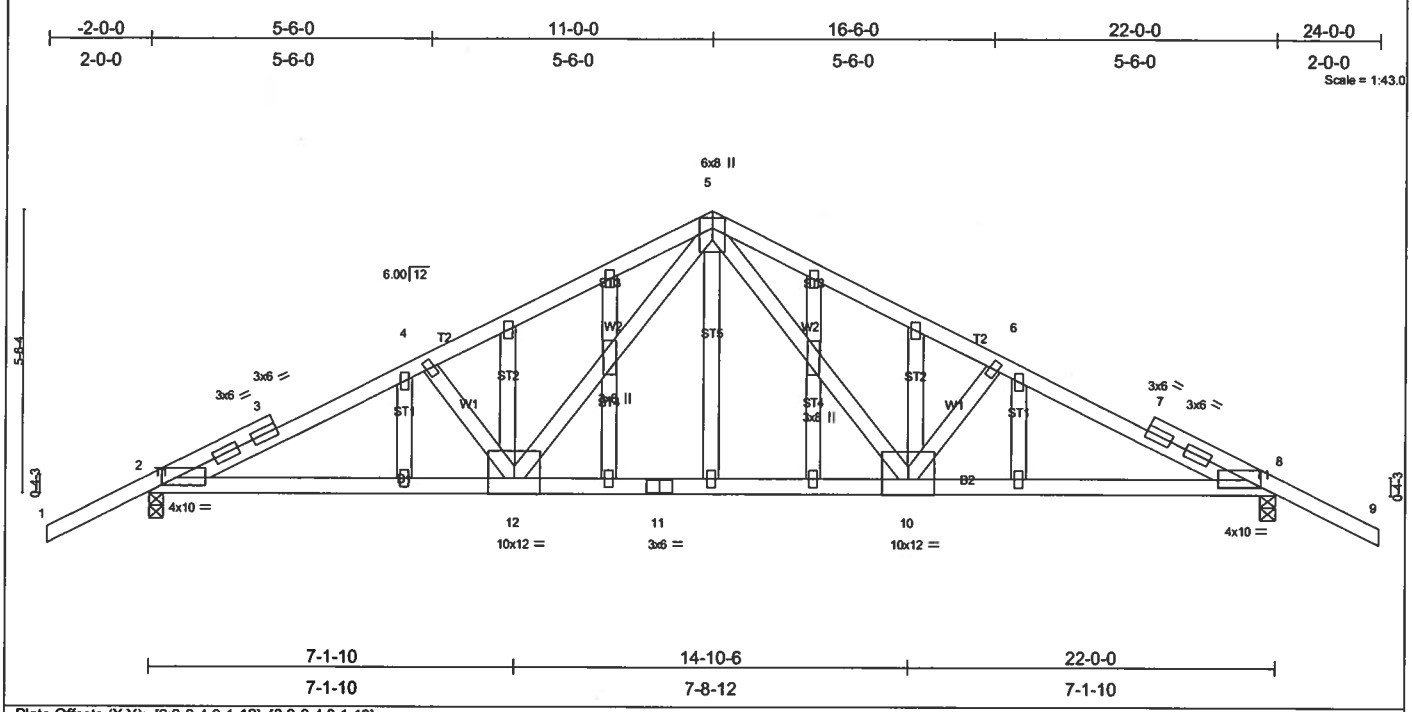


Plate Offsets (X,Y): [2:0-3-4,0-1-12], [8:0-3-4,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.80	Vert(LL)	-0.19	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.31	10-12	>834	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.32	Horz(TL)	0.08	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 142 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-11 oc bracing.

REACTIONS (lb/size) 2=1808/0-3-8, 8=1808/0-3-8
Max Horz 2=111(load case 5)
Max Uplift2=-717(load case 5), 8=-717(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-16/100, 2-3=-2957/1214, 3-4=-2856/1202, 4-5=-2604/1115, 5-6=-2604/1115, 6-7=-2856/1202, 7-8=-2957/1214, 8-9=-16/100
BOT CHORD 2-12=-947/2590, 11-12=-491/1616, 10-11=-491/1616, 8-10=-947/2590
WEBS 4-12=-677/411, 5-12=-363/983, 5-10=-363/983, 6-10=-677/411

JOINT STRESS INDEX
2 = 0.90, 3 = 0.00, 3 = 0.64, 3 = 0.92, 4 = 0.34, 5 = 0.65, 6 = 0.34, 7 = 0.00, 7 = 0.92, 7 = 0.64, 8 = 0.90, 10 = 0.26, 11 = 0.68, 12 = 0.26, 13 = 0.34, 14 = 0.53, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.34, 22 = 0.53, 23 = 0.34, 24 = 0.34 and 25 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 717 lb uplift at joint 2 and 717 lb uplift at joint 8.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-114(F=-60), 5-9=-114(F=-60), 2-8=-30

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061050

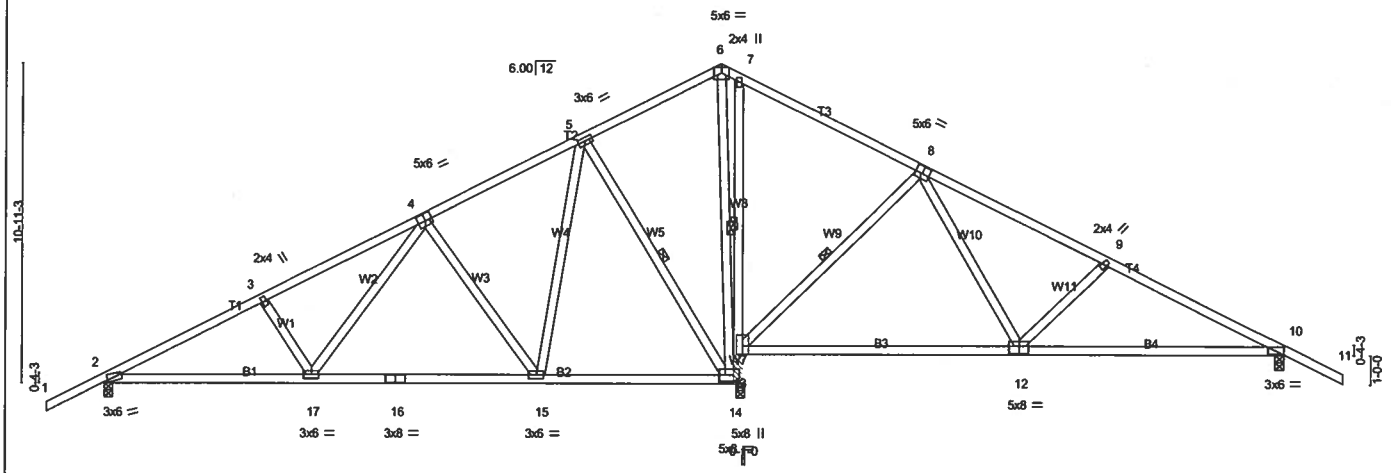
Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T02	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 15:29:20 2006 Page 1

-2-0-0 | 5-6-0 | 11-0-0 | 16-6-0 | 21-2-0 | 22-0-0 | 27-11-8 | 34-2-11 | 40-4-0 | 42-4-0

2-0-0 | 5-6-0 | 5-6-0 | 5-6-0 | 4-8-0 | 0-10-0 | 5-11-8 | 6-3-4 | 6-1-5 | 2-0-0

Scale = 1:75.2



7-1-10 | 14-10-6 | 21-10-4 | 22-0-0 | 31-4-0 | 40-4-0

7-1-10 | 7-8-12 | 6-11-14 | 0-1-12 | 9-4-0 | 9-0-0

Plate Offsets (X,Y): [2:0-1-9,0-0-7], [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [10:0-2-12,0-1-8], [12:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	0.47	12-13	>476	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	0.37	12-13	>607	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(TL)	0.06	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 244 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D *Except* T1 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* B2 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except* W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 8-13, 5-14, 7-14, 6-14

REACTIONS (lb/size) 2=1082/0-3-8, 14=2155/0-3-8, 10=746/0-3-8
Max Horz 2=219(load case 5)
Max Uplift2=-557(load case 5), 14=-902(load case 5), 10=-676(load case 6)
Max Grav 2=1128(load case 9), 14=2155(load case 1), 10=762(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1811/1075, 3-4=-1659/1076, 4-5=-721/654, 5-6=0/338, 6-7=0/394, 7-8=0/384, 8-9=-696/1002, 9-10=-939/1075, 10-11=0/47
BOT CHORD 2-17=-837/1548, 16-17=-487/977, 15-16=-487/977, 14-15=-154/419, 12-13=-245/249, 10-12=-796/779
WEBS 3-17=-231/220, 4-17=-411/793, 4-15=-661/489, 5-15=-559/1012, 8-13=-703/742, 8-12=-686/638, 9-12=-324/319, 5-14=-1087/709, 13-14=-1080/1020, 7-13=-446/335, 6-14=-333/0

JOINT STRESS INDEX
2 = 0.80, 3 = 0.34, 4 = 0.54, 5 = 0.78, 6 = 0.26, 7 = 0.34, 8 = 0.64, 9 = 0.34, 10 = 0.75, 12 = 0.78, 13 = 0.20, 13 = 0.00, 14 = 0.56, 14 = 0.00, 15 = 0.72, 16 = 0.90 and 17 = 0.58

NOTES
1) 2 X 4 SYP No.2 bearing block 12" long at jt. 14 attached to front face with 2 rows of 0.131"x3" Nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SYP.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 557 lb uplift at joint 2, 902 lb uplift at joint 14 and 676 lb uplift at joint 10.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 6-11=-54, 2-17=-30, 15-17=-80(F=-50), 14-15=-30, 10-13=-30

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

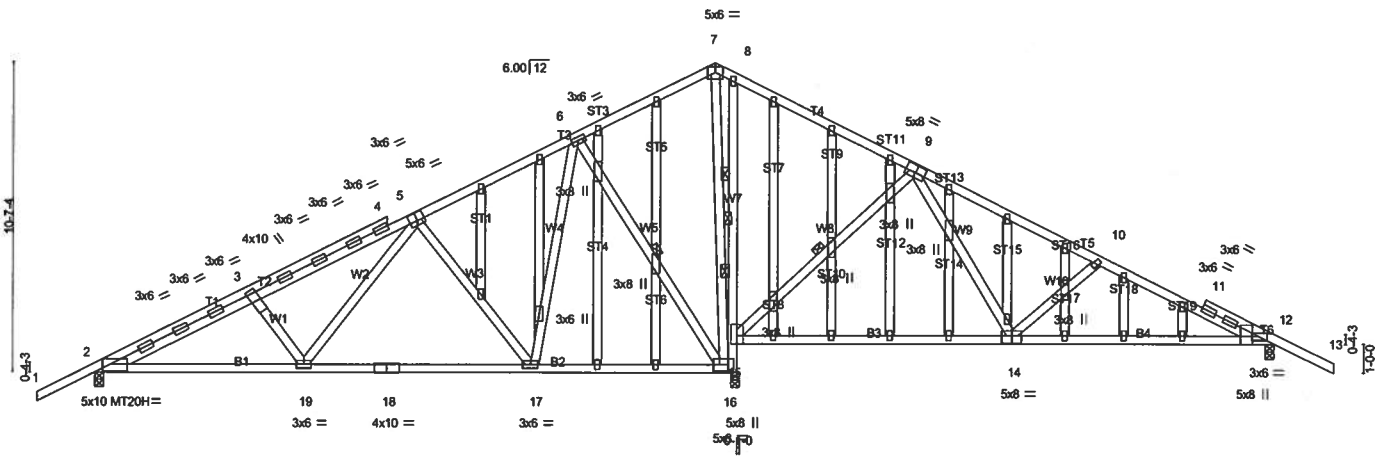
Dwg.#0829061051

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T02G	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 15:29:42 2006 Page 1

-2-0-0	5-6-0	11-0-0	16-6-0	21-2-0	22-0-0	27-11-8	34-2-11	40-4-0	42-4-0
2-0-0	5-6-0	5-6-0	5-6-0	4-8-0	0-10-0	5-11-8	6-3-4	6-1-5	2-0-0

Scale = 1:75.2



7-1-10	14-10-6	21-10-4	22-0-0	31-4-0	40-4-0
7-1-10	7-8-12	6-11-14	0-1-12	9-4-0	9-0-0

Plate Offsets (X,Y): [2:0-3-4,0-2-12], [4:0-2-0,0-1-8], [5:0-3-0,0-3-4], [9:0-3-12,0-3-0], [12:0-8-12,0-1-8], [12:0-0-4,Edge], [14:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	0.49	14-15	>458	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	0.38	14-15	>586	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(TL)	0.07	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 351 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D *Except*
T2 2 X 4 SYP No.2, T1 2 X 4 SYP No.2, T6 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-9-11 oc bracing.
WEBS 1 Row at midpt 9-15, 6-16, 7-16
2 Rows at 1/3 pts 8-16

REACTIONS (lb/size) 2=1242/0-3-8, 12=1357/0-3-8, 16=3561/0-4-3 (input: 0-3-8)
Max Horz 2=214(load case 5)
Max Uplift2=-662(load case 5), 12=-1081(load case 6), 16=-1863(load case 5)
Max Grav 2=1290(load case 9), 12=1369(load case 10), 16=3561(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-2232/1413, 3-4=-2065/1395, 4-5=-1958/1404, 5-6=-1103/943, 6-7=-51/570, 7-8=0/310, 8-9=-54/633, 9-10=-1266/1502, 10-11=-1721/1842, 11-12=-1822/1881, 12-13=-41/100
BOT CHORD 2-19=-1149/1942, 18-19=-845/1399, 17-18=-845/1399, 16-17=-289/635, 14-15=-486/502, 12-14=-1529/1551
WEBS 3-19=-179/156, 5-19=-361/746, 5-17=-906/704, 6-17=-719/1196, 9-15=-1250/1248, 9-14=-1004/972, 10-14=-762/732, 6-16=-1677/1247, 15-16=-1809/1696, 8-15=-796/663, 7-16=-403/68

JOINT STRESS INDEX
2 = 0.71, 3 = 0.27, 3 = 0.29, 3 = 0.29, 3 = 0.29, 4 = 0.00, 4 = 0.22, 4 = 0.22, 4 = 0.22, 4 = 0.22, 5 = 0.74, 6 = 0.92, 7 = 0.65, 8 = 0.35, 9 = 0.87, 10 = 0.40, 11 = 0.00, 11 = 0.70, 11 = 0.62, 12 = 0.74, 12 = 0.59, 14 = 0.85, 15 = 0.37, 16 = 0.85, 17 = 0.85, 18 = 0.89, 19 = 0.53, 20 = 0.72, 21 = 0.34, 22 = 0.34, 23 = 0.72, 24 = 0.34, 25 = 0.34, 26 = 0.16, 27 = 0.34, 28 = 0.34, 29 = 0.34, 30 = 0.34, 31 = 0.34, 32 = 0.38, 33 = 0.34, 34 = 0.34, 35 = 0.38, 36 = 0.34, 37 = 0.34, 38 = 0.38, 39 = 0.34, 40 = 0.34, 41 = 0.77, 42 = 0.34, 43 = 0.34, 44 = 0.34, 45 = 0.34, 46 = 0.35, 47 = 0.34, 48 = 0.34, 49 = 0.34 and 50 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 662 lb uplift at joint 2, 1081 lb uplift at joint 12 and 1863 lb uplift at joint 16.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-7=-141(F=-87), 7-8=-141(F=-87), 8-13=-114(F=-60), 2-19=-30, 17-19=-80(F=-50), 16-17=-30, 12-15=-30

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ. FL 33549

Dwg.#0829061052

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T03	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:44 2006 Page 1

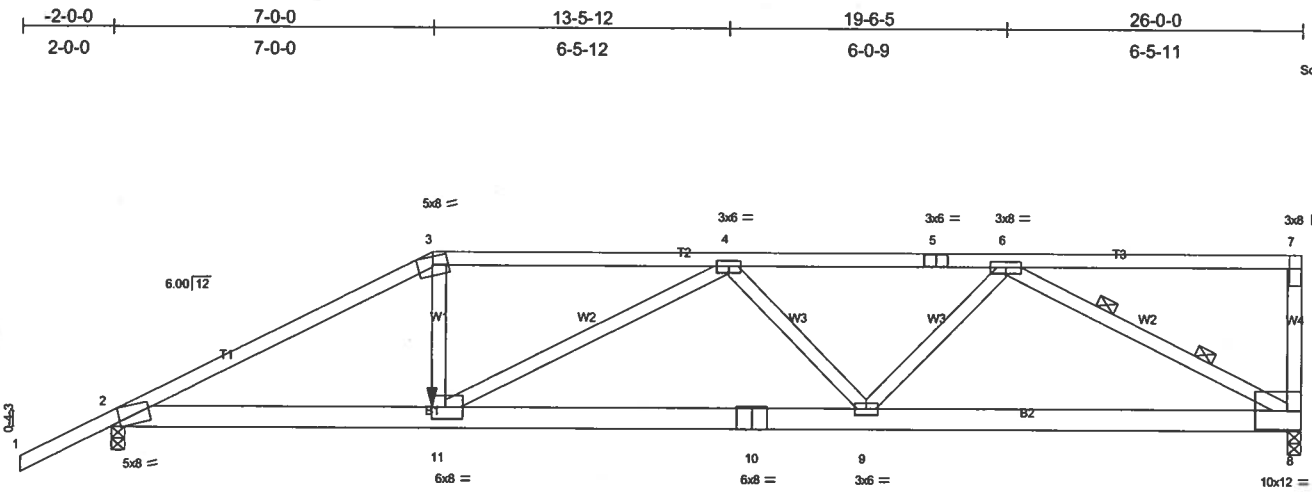


Plate Offsets (X,Y): [2:0-2-7,Edge], [11:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	-0.29	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-0.48	9-11	>645	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.10	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 147 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W4 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-6 oc bracing.
WEBS 2 Rows at 1/3 pts 6-8

REACTIONS (lb/size) 8=2474/0-3-8, 2=2315/0-3-8
Max Horz 2=228(load case 4)
Max Uplift8=-1118(load case 3), 2=-1003(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-3=-4437/1858, 3-4=-3954/1726, 4-5=-4372/1839, 5-6=-4372/1839, 6-7=-194/87, 7-8=-383/302
BOT CHORD 2-11=-1708/3896, 10-11=-2180/4694, 9-10=-2180/4694, 8-9=-1640/3462
WEBS 3-11=-447/1375, 4-11=-845/578, 4-9=-491/519, 6-9=-303/1385, 6-8=-3726/1771

JOINT STRESS INDEX
2 = 0.86, 3 = 0.85, 4 = 0.37, 5 = 0.64, 6 = 0.91, 7 = 0.83, 8 = 0.64, 9 = 0.89, 10 = 0.95 and 11 = 0.38

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1118 lb uplift at joint 8 and 1003 lb uplift at joint 2.
5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-7=-121(F=-68), 2-11=-30, 8-11=-68(F=-38)
Concentrated Loads (lb)
Vert: 11=-539(F)

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

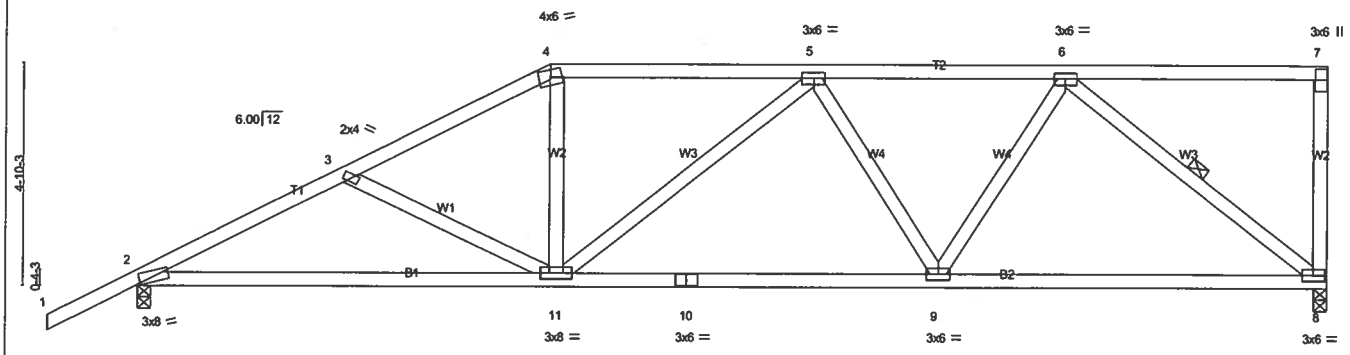
Dwg.#0829061053

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T04	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:45 2006 Page 1

-2-0-0	4-7-15	9-0-0	14-8-14	20-3-2	26-0-0
2-0-0	4-7-15	4-4-1	5-8-14	5-6-5	5-8-14

Scale: 1/4"=1'



9-0-0	17-6-1	26-0-0
9-0-0	8-6-1	8-5-15

Plate Offsets (X,Y): [2:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.16	2-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.27	2-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.06	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 138 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-13 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS (lb/size) 8=1075/0-3-8, 2=1200/0-3-8
Max Horz 2=272(load case 5)
Max Uplift8=-390(load case 4), 2=-438(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1882/733, 3-4=-1642/628, 4-5=-1436/619, 5-6=-1350/537, 6-7=-53/9, 7-8=-146/98
BOT CHORD 2-11=-801/1636, 10-11=-650/1503, 9-10=-650/1503, 8-9=-455/1045
WEBS 3-11=-238/205, 4-11=-55/428, 5-11=-86/153, 5-9=-294/218, 6-9=-157/589, 6-8=-1279/576

JOINT STRESS INDEX
2 = 0.78, 3 = 0.34, 4 = 0.60, 5 = 0.43, 6 = 0.45, 7 = 0.32, 8 = 0.65, 9 = 0.45, 10 = 0.60 and 11 = 0.57

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 390 lb uplift at joint 8 and 438 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ. FL 33549

Dwg.#0829061054

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T05	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:46 2006 Page 1

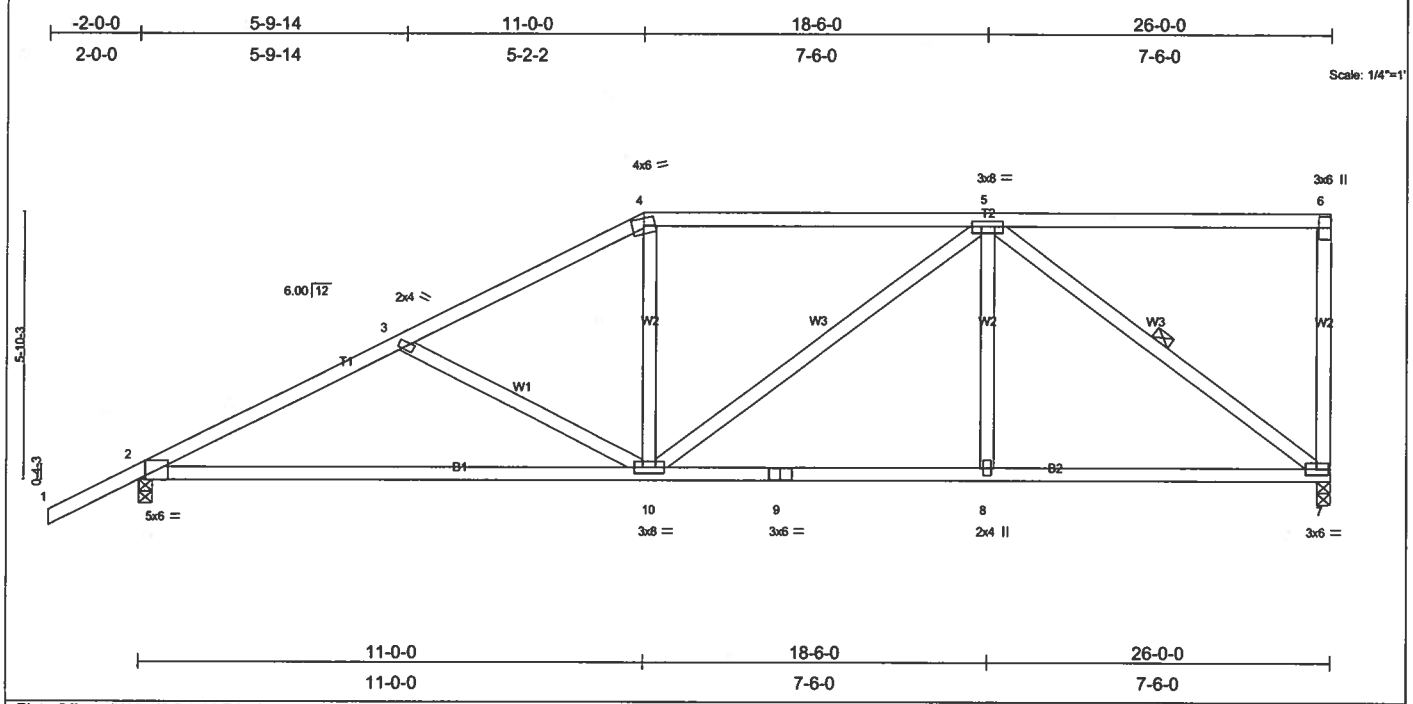


Plate Offsets (X,Y): [2:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.34	2-10	>909	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.58	2-10	>528	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 141 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-14 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS (lb/size) 7=1075/0-3-8, 2=1200/0-3-8
Max Horz 2=318(load case 5)
Max Uplift7=-382(load case 4), 2=-447(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1808/714, 3-4=-1494/572, 4-5=-1288/575, 5-6=-50/18, 6-7=-181/128
BOT CHORD 2-10=-823/1573, 9-10=-471/1082, 8-9=-471/1082, 7-8=-471/1082
WEBS 3-10=-331/280, 4-10=0/302, 5-10=-133/257, 5-8=0/195, 5-7=-1294/567

JOINT STRESS INDEX
2 = 0.71, 3 = 0.34, 4 = 0.81, 5 = 0.63, 6 = 0.44, 7 = 0.61, 8 = 0.34, 9 = 0.37 and 10 = 0.57

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 382 lb uplift at joint 7 and 447 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061055

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T06	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:47 2006 Page 1

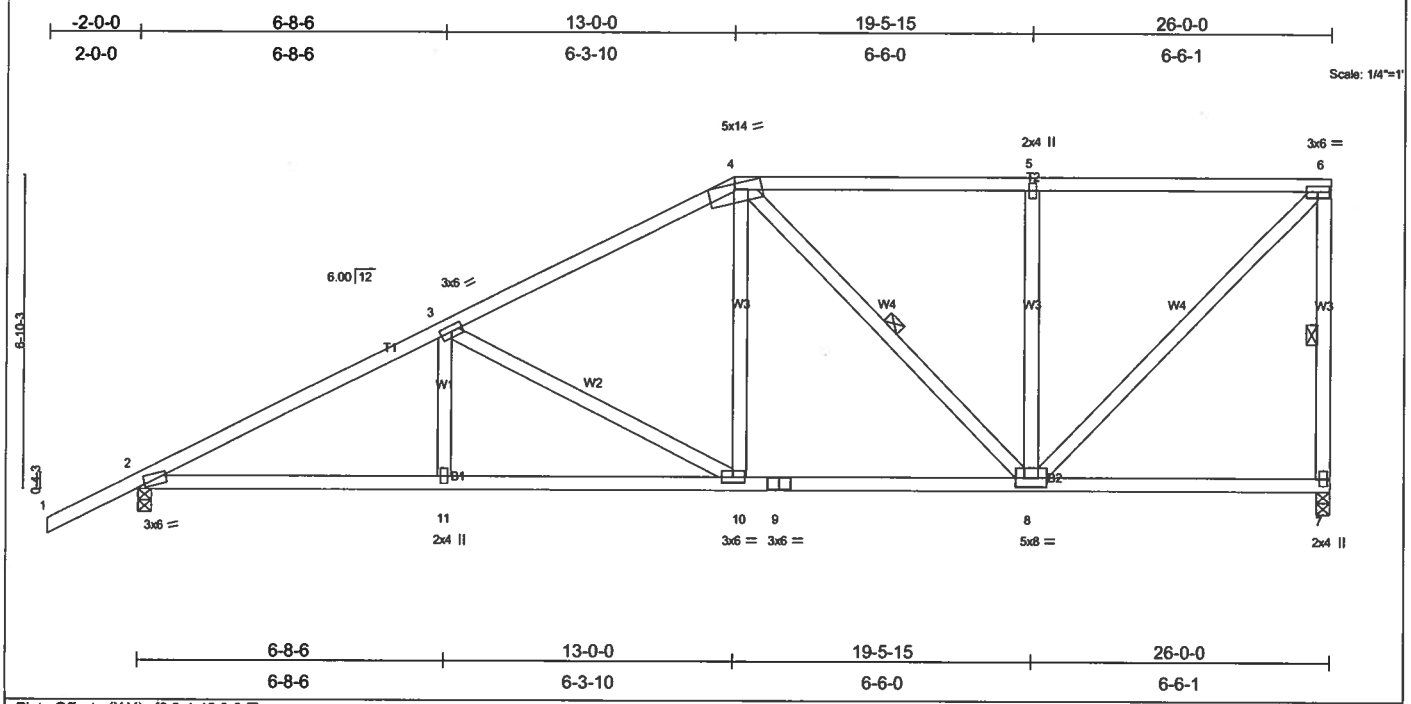


Plate Offsets (X,Y): [2:0-1-13,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.10	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.16	2-11	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 152 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-14 oc bracing.
WEBS 1 Row at midpt 6-7, 4-8

REACTIONS (lb/size) 7=1075/0-3-8, 2=1200/0-3-8
Max Horz 2=364(load case 5)
Max Uplift7=-372(load case 4), 2=-451(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1897/657, 3-4=-1290/510, 4-5=-830/369, 5-6=-830/370, 6-7=-983/480
BOT CHORD 2-11=-819/1618, 10-11=-819/1618, 9-10=-527/1094, 8-9=-527/1094, 7-8=-12/28
WEBS 3-11=0/212, 3-10=-603/333, 4-10=-122/469, 4-8=-376/223, 5-8=-365/271, 6-8=-514/1151

JOINT STRESS INDEX
2 = 0.81, 3 = 0.41, 4 = 0.85, 5 = 0.34, 6 = 0.75, 7 = 0.88, 8 = 0.55, 9 = 0.41, 10 = 0.35 and 11 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 7 and 451 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061056

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T07	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:48 2006 Page 1

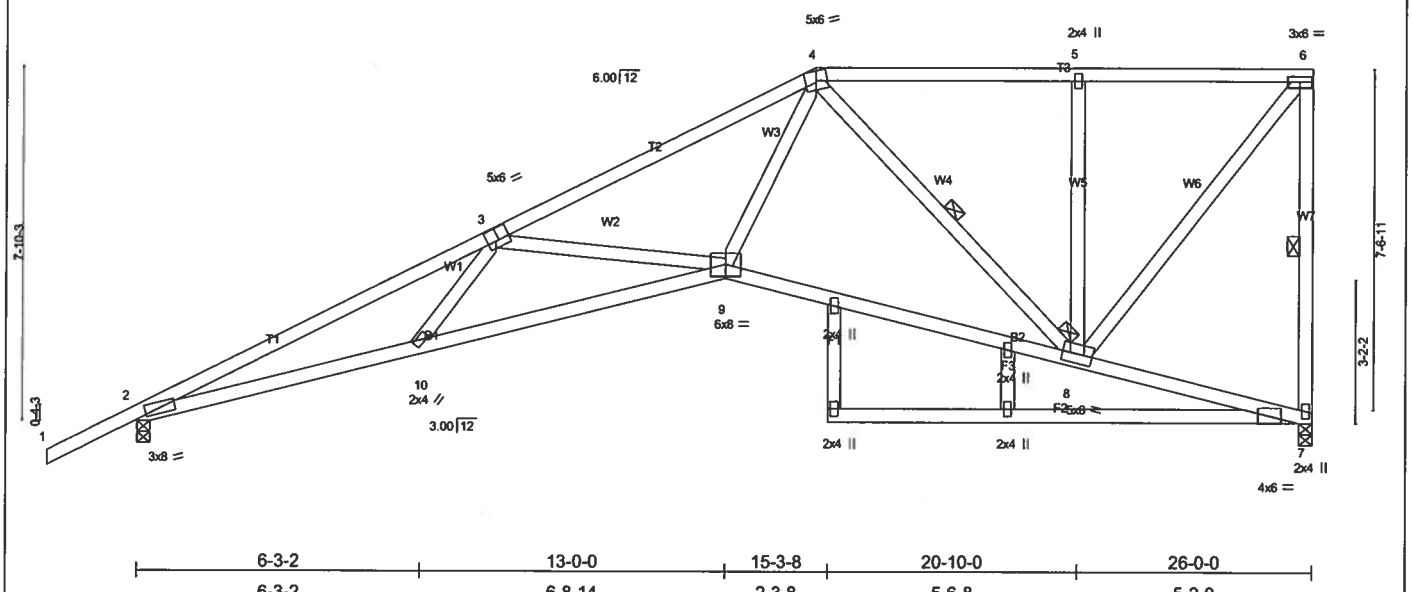


Plate Offsets (X,Y): [2:0-2-11,0-0-1], [3:0-3-0,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.66	Vert(LL)	-0.29	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.46	9-10	>666	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.28	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 168 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-6 oc bracing. Except:
1 Row at midpt 8-9
WEBS 1 Row at midpt 6-7, 4-8
JOINTS 1 Brace at Jt(s): 8

REACTIONS (lb/size) 7=1075/0-3-8, 2=1200/0-3-8
Max Horz 2=410(load case 5)
Max Uplift7=-361(load case 4), 2=-451(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3497/1429, 3-4=-2397/1046, 4-5=-726/330, 5-6=-726/330, 6-7=-1020/495
BOT CHORD 2-10=-1590/3142, 9-10=-1626/2968, 8-9=-752/1483, 7-8=-7/34
WEBS 3-10=0/295, 3-9=-799/570, 4-9=-683/1567, 4-8=-1009/582, 5-8=-300/230, 6-8=-522/1150

JOINT STRESS INDEX
2 = 0.81, 3 = 0.75, 4 = 0.81, 5 = 0.34, 6 = 0.82, 7 = 0.51, 8 = 0.55, 9 = 0.80, 10 = 0.34, 11 = 0.34, 12 = 0.12, 13 = 0.34, 14 = 0.34 and 15 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint 7 and 451 lb uplift at joint 2.

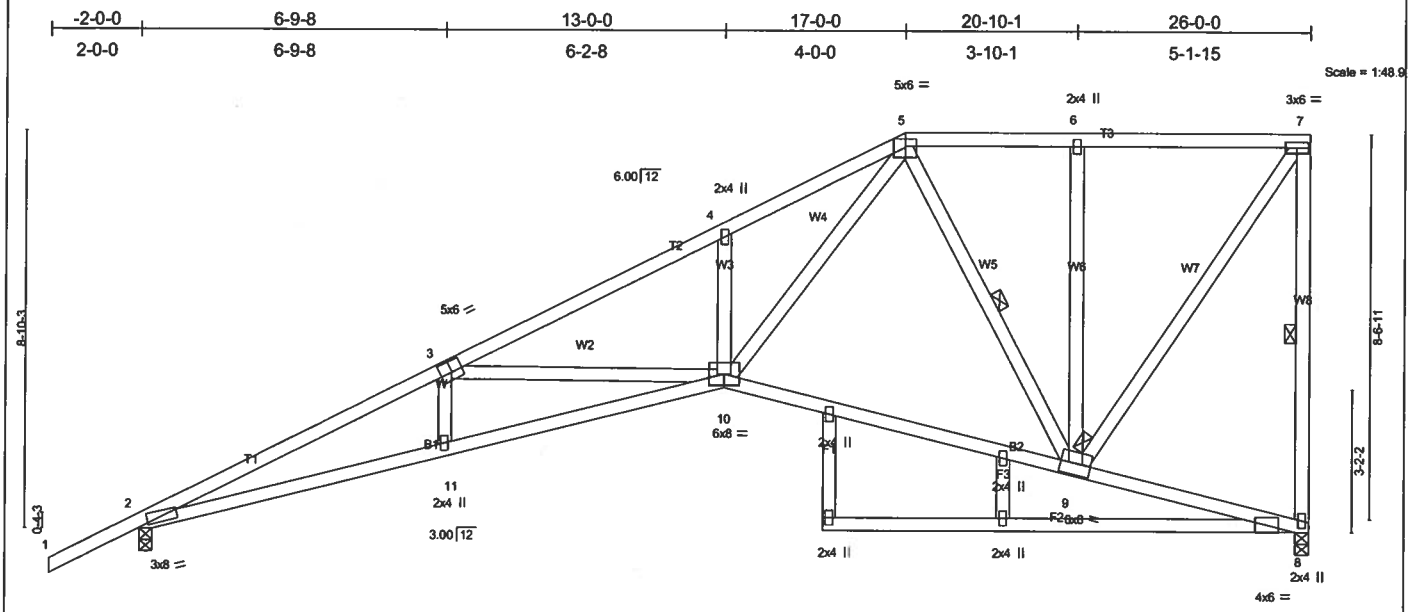
LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061057

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T08	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:50 2006 Page 1



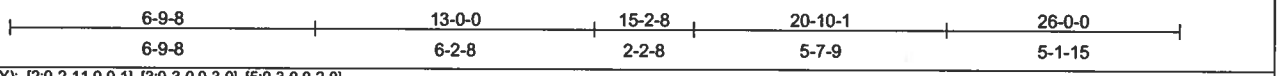


Plate Offsets (X,Y): [2:0-2-11,0-0-1], [3:0-3-0,0-3-0], [5:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.29	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.46	10-11	>675	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(TL)	0.28	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 179 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-11 oc bracing.
WEBS 1 Row at midpt 7-8, 5-9
JOINTS 1 Brace at Jt(s): 9

REACTIONS (lb/size) 8=1075/0-3-8, 2=1200/0-3-8
Max Horz 2=456(load case 5)
Max Uplift8=-365(load case 5), 2=-447(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3481/1475, 3-4=-2448/1070, 4-5=-2426/1220, 5-6=-623/297, 6-7=-623/297, 7-8=-1021/515
BOT CHORD 2-11=-1697/3135, 10-11=-1699/3135, 9-10=-534/1028, 8-9=-6/33
WEBS 3-11=0/185, 3-10=-899/517, 4-10=-286/300, 5-10=-1026/1922, 5-9=-748/465, 6-9=-262/193, 7-9=-517/1086

JOINT STRESS INDEX
2 = 0.81, 3 = 0.64, 4 = 0.34, 5 = 0.83, 6 = 0.34, 7 = 0.83, 8 = 0.51, 9 = 0.41, 10 = 0.79, 11 = 0.34, 12 = 0.34, 13 = 0.12, 14 = 0.34, 15 = 0.34 and 16 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 8, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 8 and 447 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061058

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T09	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:51 2006 Page 1

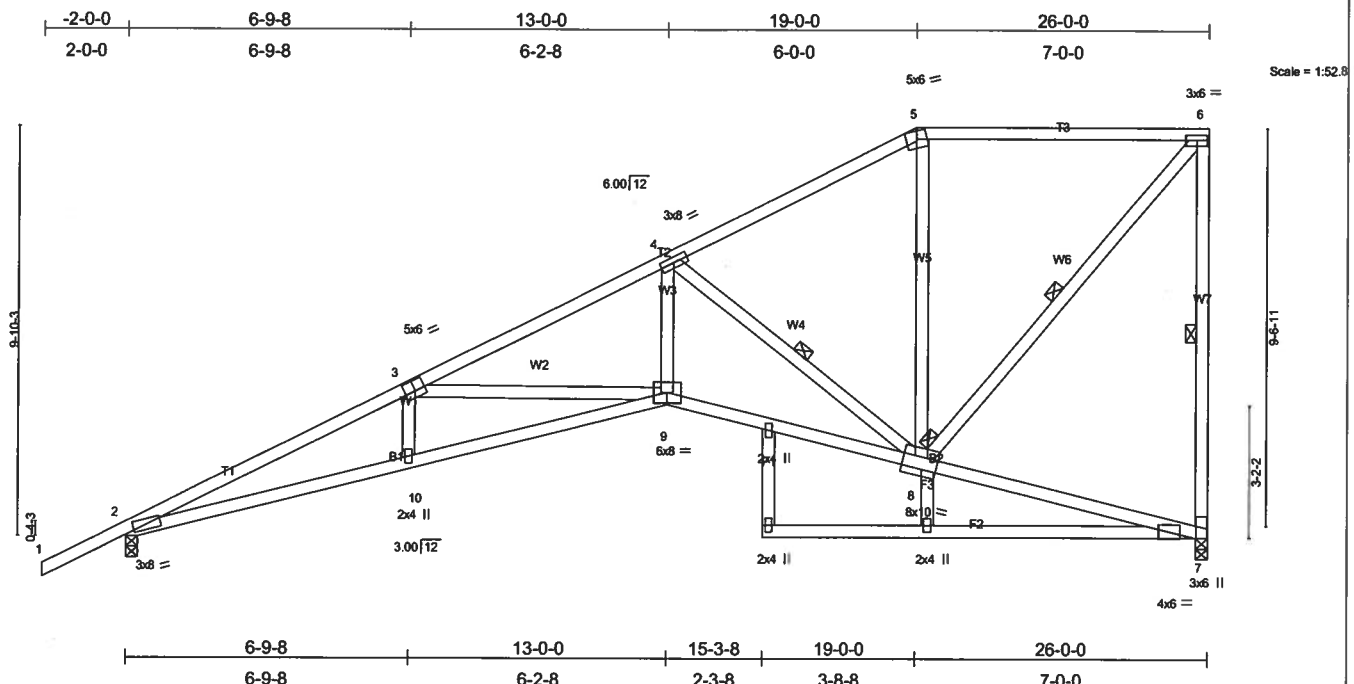


Plate Offsets (X,Y): [2:0-2-11,0-0-1], [3:0-3-0,0-3-0], [8:0-5-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.63	Vert(LL)	-0.30	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.49	9-10	>631	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.30	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 173 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-2 oc bracing. Except:
1 Row at midpt 8-9
WEBS 1 Row at midpt 6-7, 4-8, 6-8
JOINTS 1 Brace at Jt(s): 8

REACTIONS (lb/size) 7=1075/0-3-8, 2=1200/0-3-8
Max Horz 2=502(load case 5)
Max Uplift7=-401(load case 5), 2=-439(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3485/1457, 3-4=-2436/1067, 4-5=-864/344, 5-6=-712/373, 6-7=-985/546
BOT CHORD 2-10=-1732/3139, 9-10=-1735/3136, 8-9=-1217/2196, 7-8=-11/46
WEBS 3-10=0/199, 3-9=-910/501, 4-9=-704/1498, 4-8=-1787/1023, 5-8=-20/133, 6-8=-566/1071

JOINT STRESS INDEX
2 = 0.81, 3 = 0.61, 4 = 0.89, 5 = 0.60, 6 = 0.74, 7 = 0.29, 8 = 0.62, 9 = 0.74, 10 = 0.34, 11 = 0.34, 12 = 0.12, 13 = 0.34 and 14 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 7 and 439 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061059

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T10	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:52 2006 Page 1

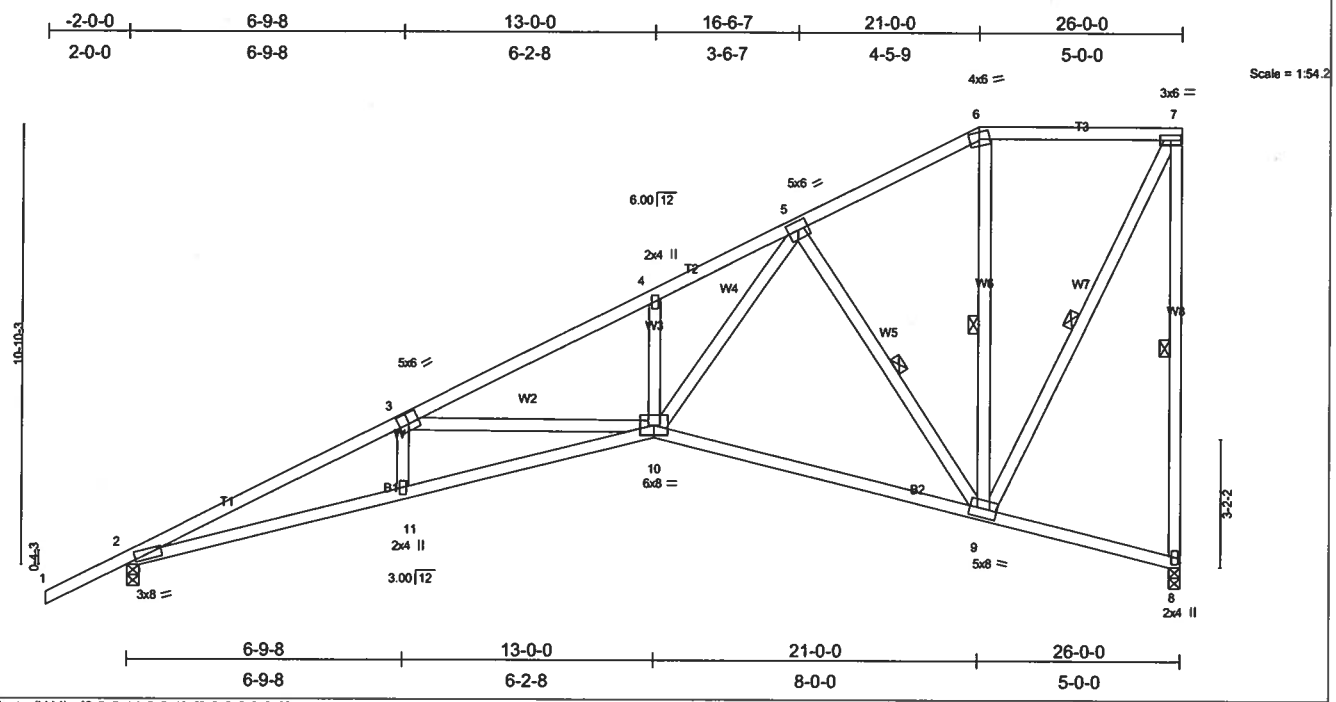


Plate Offsets (X,Y): [2:0-2-11,0-0-1], [3:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.28	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-0.45	10-11	>678	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(TL)	0.28	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 167 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-8 oc bracing.
WEBS 1 Row at midpt 7-8, 5-9, 6-9, 7-9

REACTIONS (lb/size) 8=1075/0-3-8, 2=1200/0-3-8
Max Horz 2=548(load case 5)
Max Uplift8=-440(load case 5), 2=-427(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3480/1441, 3-4=-2450/1031, 4-5=-2419/1169, 5-6=-568/217, 6-7=-464/245, 7-8=-1029/561
BOT CHORD 2-11=-1770/3134, 10-11=-1772/3135, 9-10=-635/1113, 8-9=-5/29
WEBS 3-11=0/183, 3-10=-897/523, 4-10=-267/278, 5-10=-1023/1883, 5-9=-1083/671, 6-9=-50/120, 7-9=-541/1023

JOINT STRESS INDEX
2 = 0.81, 3 = 0.64, 4 = 0.34, 5 = 0.74, 6 = 0.51, 7 = 0.87, 8 = 0.44, 9 = 0.57, 10 = 0.81 and 11 = 0.34

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 8, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 440 lb uplift at joint 8 and 427 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061060

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T11	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:53 2006 Page 1

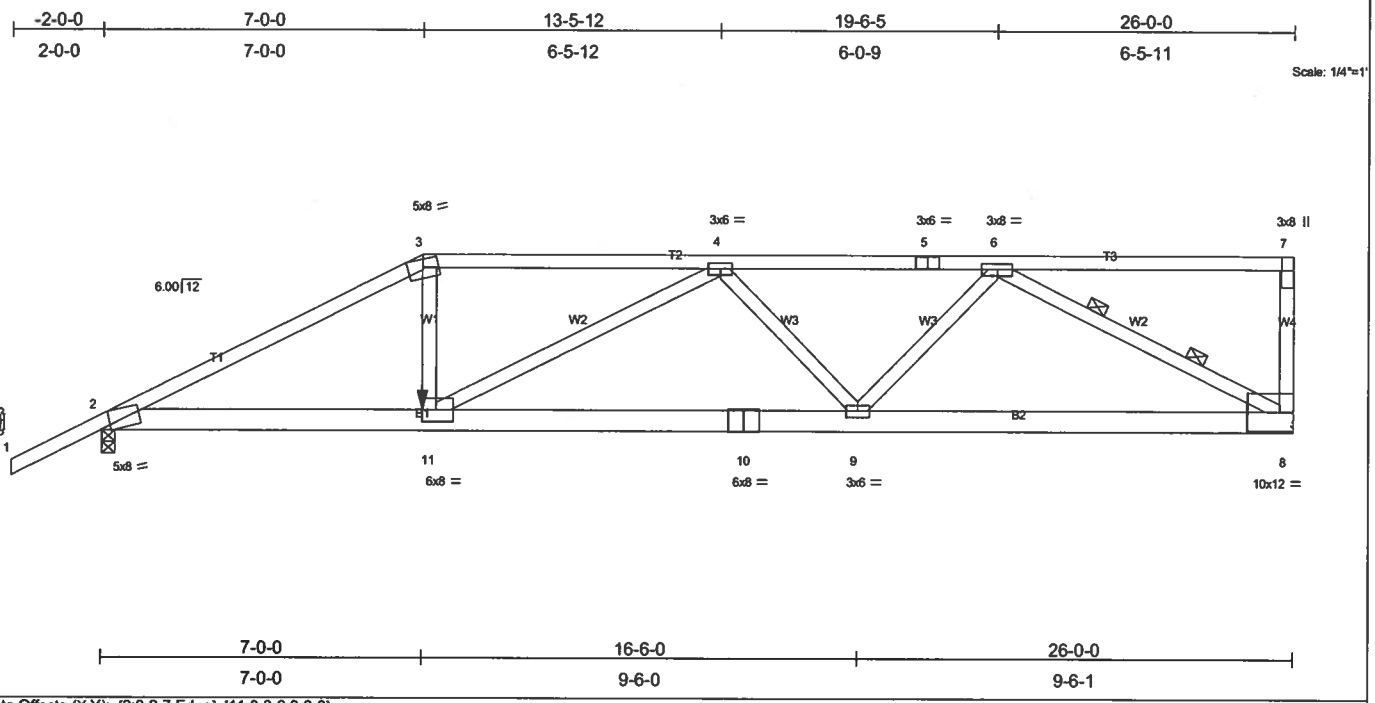


Plate Offsets (X,Y): [2:0-2-7,Edge], [11:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	-0.29	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-0.48	9-11	>645	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.10	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 147 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W4 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-6 oc bracing.
WEBS 2 Rows at 1/3 pts 6-8

REACTIONS (lb/size) 8=2474/Mechanical, 2=2315/0-3-8
Max Horz 2=228(load case 4)
Max Uplift8=-1118(load case 3), 2=-1003(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-3=-4437/1858, 3-4=-3954/1726, 4-5=-4372/1839, 5-6=-4372/1839, 6-7=-194/87, 7-8=-383/302
BOT CHORD 2-11=-1708/3896, 10-11=-2180/4694, 9-10=-2180/4694, 8-9=-1640/3462
WEBS 3-11=-447/1375, 4-11=-845/578, 4-9=-491/519, 6-9=-303/1385, 6-8=-3726/1771

JOINT STRESS INDEX
2 = 0.86, 3 = 0.85, 4 = 0.37, 5 = 0.64, 6 = 0.91, 7 = 0.83, 8 = 0.64, 9 = 0.89, 10 = 0.95 and 11 = 0.38

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1118 lb uplift at joint 8 and 1003 lb uplift at joint 2.
5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-7=-121(F=-68), 2-11=-30, 8-11=-68(F=-38)
Concentrated Loads (lb)
Vert: 11=-539(F)

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

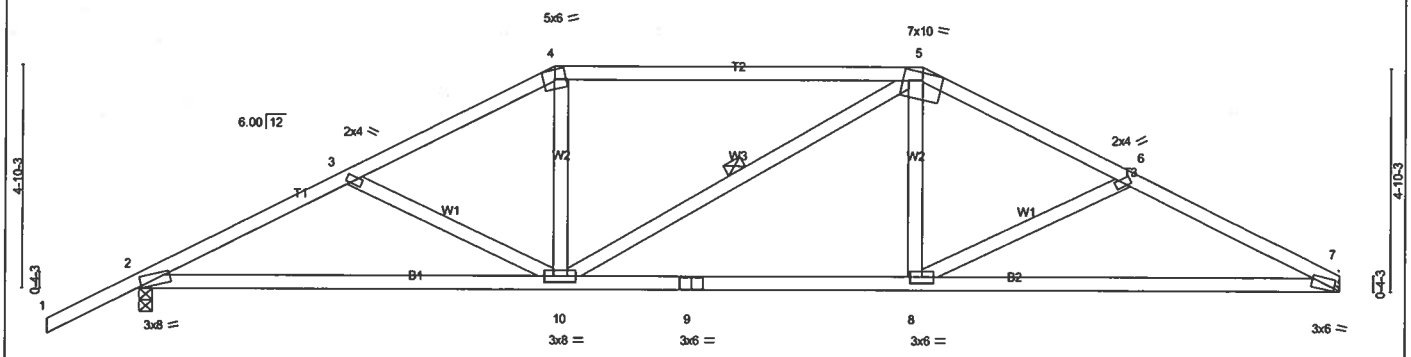
Dwg.#0829061061

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T12	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:54 2006 Page 1

-2-0-0 | 4-7-15 | 9-0-0 | 17-0-0 | 21-4-1 | 26-0-0
2-0-0 | 4-7-15 | 4-4-1 | 8-0-0 | 4-4-1 | 4-7-15

Scale: 1/4"=1'



9-0-0 | 17-0-0 | 26-0-0
9-0-0 | 8-0-0 | 9-0-0

Plate Offsets (X,Y): [2:0-0-10,Edge], [7:0-1-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.21	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.35	7-8	>880	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 124 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-2 oc bracing.
WEBS 1 Row at midpt 5-10

REACTIONS (lb/size) 7=1078/Mechanical, 2=1204/0-3-8
Max Horz 2=126(load case 5)
Max Uplift7=-324(load case 6), 2=-452(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1874/786, 3-4=-1658/697, 4-5=-1461/687, 5-6=-1679/723, 6-7=-1928/849
BOT CHORD 2-10=-614/1627, 9-10=-476/1477, 8-9=-476/1477, 7-8=-688/1691
WEBS 3-10=-199/183, 4-10=-30/349, 5-10=-141/114, 5-8=-63/375, 6-8=-251/238

JOINT STRESS INDEX
2 = 0.79, 3 = 0.34, 4 = 0.71, 5 = 0.74, 6 = 0.34, 7 = 0.84, 8 = 0.35, 9 = 0.55 and 10 = 0.57

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 324 lb uplift at joint 7 and 452 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061062

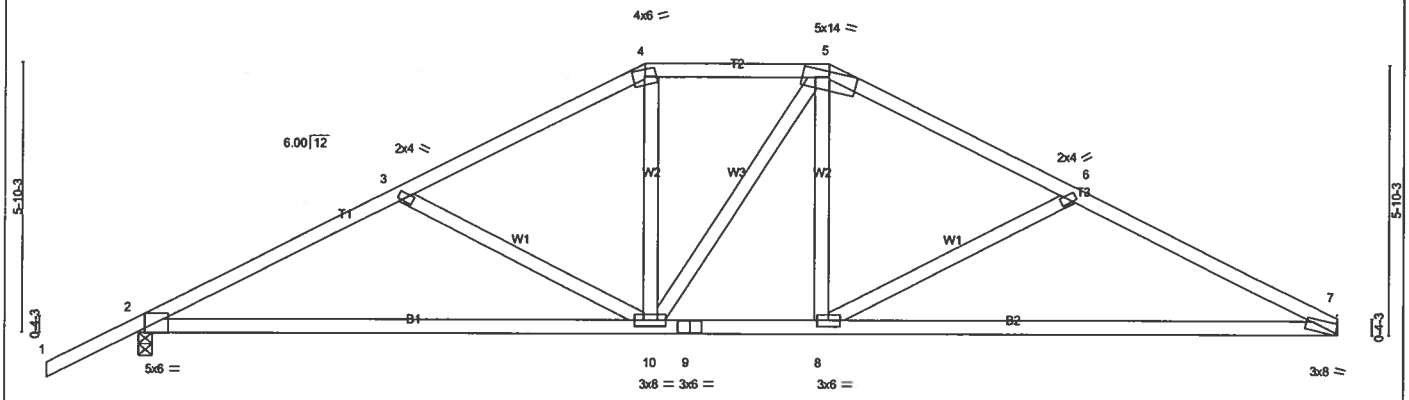
Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T13	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:55 2006 Page 1

-2-0-0 | 5-9-14 | 11-0-0 | 15-0-0 | 20-2-2 | 26-0-0

2-0-0 | 5-9-14 | 5-2-2 | 4-0-0 | 5-2-2 | 5-9-14

Scale: 1/4"=1'



11-0-0 | 15-0-0 | 26-0-0

11-0-0 | 4-0-0 | 11-0-0

Plate Offsets (X,Y): [2:0-1-11,Edge], [7:0-0-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	-0.41	7-8	>756	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.70	7-8	>444	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 128 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-5-11 oc bracing.

REACTIONS (lb/size) 7=1078/Mechanical, 2=1204/0-3-8
Max Horz 2=140(load case 5)
Max Uplift7=-339(load case 6), 2=-467(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1819/807, 3-4=-1486/654, 4-5=-1274/645, 5-6=-1497/669, 6-7=-1857/851
BOT CHORD 2-10=-625/1585, 9-10=-373/1282, 8-9=-373/1282, 7-8=-678/1631
WEBS 3-10=-365/299, 4-10=-97/396, 5-10=-141/122, 5-8=-133/424, 6-8=-406/349

JOINT STRESS INDEX
2 = 0.74, 3 = 0.34, 4 = 0.52, 5 = 0.42, 6 = 0.34, 7 = 0.92, 8 = 0.35, 9 = 0.86 and 10 = 0.59

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 339 lb uplift at joint 7 and 467 lb uplift at joint 2.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061063

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T14	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:56 2006 Page 1

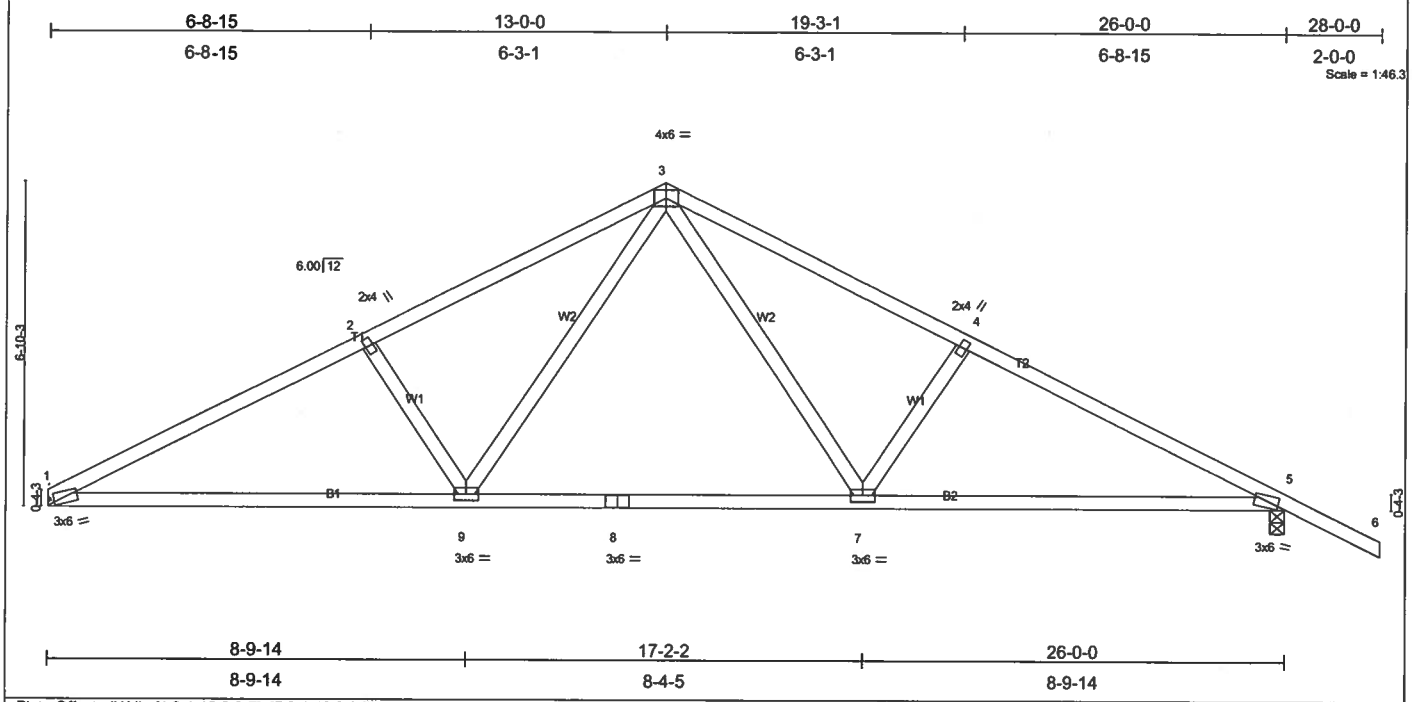


Plate Offsets (X,Y): [1:0-1-12,0-0-7], [5:0-1-12,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.22	1-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.36	1-9	>860	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0.06	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 119 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-10 oc bracing.

REACTIONS (lb/size) 1=1078/Mechanical, 5=1204/0-3-8
Max Horz 1=-154(load case 6)
Max Uplift1=-350(load case 5), 5=-479(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1869/828, 2-3=-1688/819, 3-4=-1660/784, 4-5=-1853/790, 5-6=0/47
BOT CHORD 1-9=-568/1621, 8-9=-235/1074, 7-8=-235/1074, 5-7=-524/1584
WEBS 2-9=-359/331, 3-9=-288/693, 3-7=-234/652, 4-7=-334/303

JOINT STRESS INDEX
1 = 0.80, 2 = 0.34, 3 = 0.75, 4 = 0.34, 5 = 0.80, 7 = 0.53, 8 = 0.46 and 9 = 0.53

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 350 lb uplift at joint 1 and 479 lb uplift at joint 5.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061064

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T15	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 13:57:26 2006 Page 1

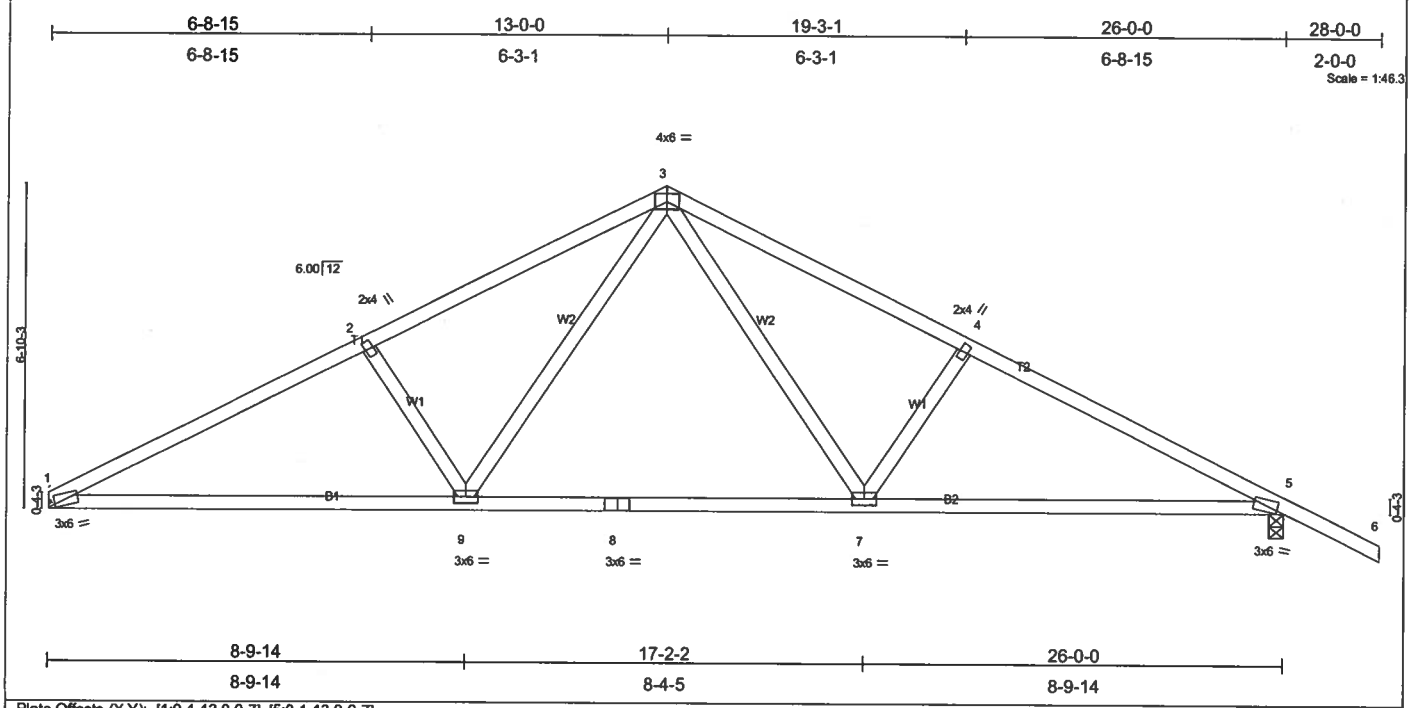


Plate Offsets (X,Y): [1:0-1-13,0-0-7], [5:0-1-13,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.22	1-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.36	1-9	>860	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0.06	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 119 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-10 oc bracing.

REACTIONS (lb/size) 1=1078/Mechanical, 5=1204/0-3-8
Max Horz 1=-154(load case 6)
Max Uplift1=-350(load case 5), 5=-479(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1870/829, 2-3=-1689/819, 3-4=-1661/784, 4-5=-1854/790, 5-6=0/47
BOT CHORD 1-9=-569/1622, 8-9=-235/1074, 7-8=-235/1074, 5-7=-524/1585
WEBS 2-9=-359/331, 3-9=-288/693, 3-7=-234/652, 4-7=-334/303

JOINT STRESS INDEX
1 = 0.80, 2 = 0.34, 3 = 0.75, 4 = 0.34, 5 = 0.80, 7 = 0.53, 8 = 0.46 and 9 = 0.53

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 350 lb uplift at joint 1 and 479 lb uplift at joint 5.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061065

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T16	SCISSOR	9	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:57 2006 Page 1

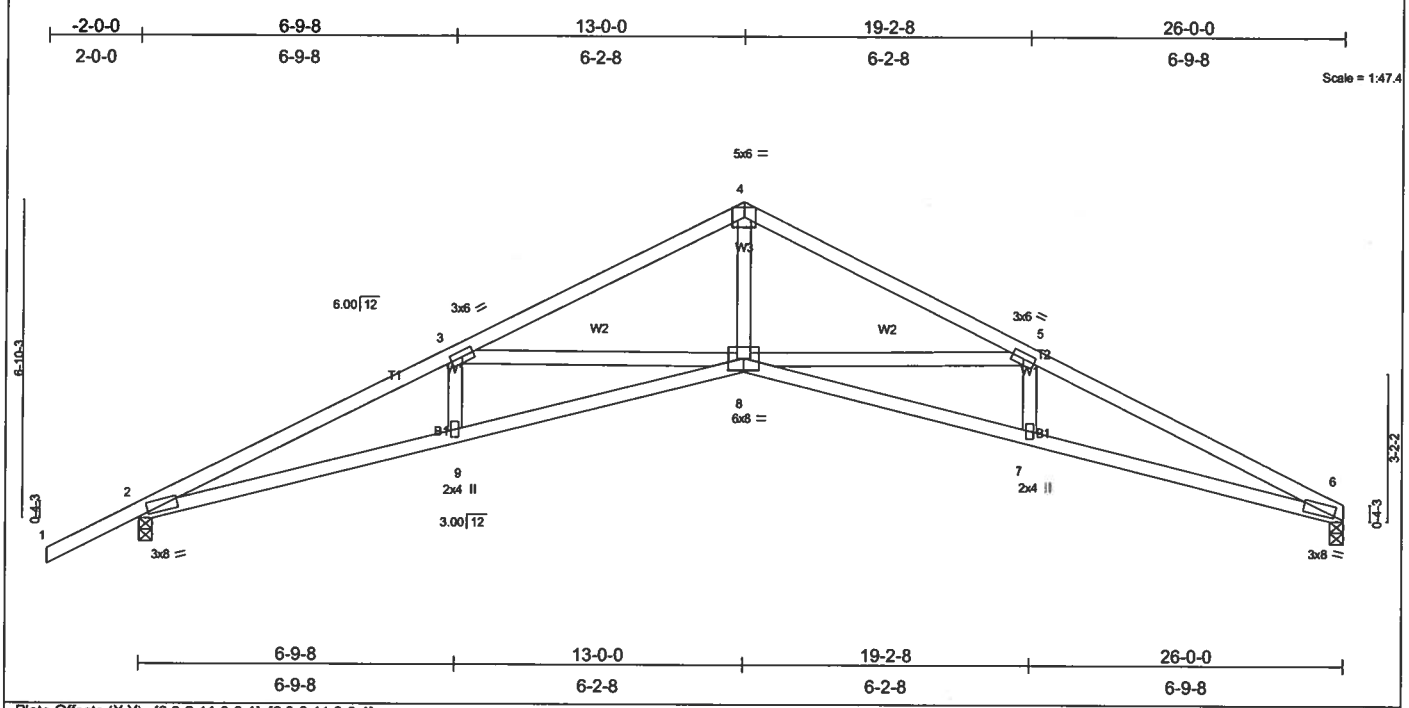


Plate Offsets (X,Y): [2:0-2-11,0-0-1], [6:0-2-11,0-0-1]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.52	Vert(LL)	-0.37	8-9	>834	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.83	Vert(TL)	-0.59	8-9	>519	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.42	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 114 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-6-1 oc bracing.

REACTIONS (lb/size) 2=1200/0-3-8, 6=1075/0-3-8
Max Horz 2=152(load case 5)
Max Uplift2=-477(load case 5), 6=-349(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-3477/1349, 3-4=-2454/955, 4-5=-2455/957, 5-6=-3528/1432
BOT CHORD 2-9=-1130/3130, 8-9=-1133/3128, 7-8=-1215/3179, 6-7=-1218/3184
WEBS 3-9=0/196, 3-8=-939/505, 4-8=-581/1786, 5-8=-990/586, 5-7=0/211

JOINT STRESS INDEX
2 = 0.81, 3 = 0.41, 4 = 0.62, 5 = 0.41, 6 = 0.81, 7 = 0.34, 8 = 0.75 and 9 = 0.34

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 2 and 349 lb uplift at joint 6.

LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061066

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T17	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:58 2006 Page 1

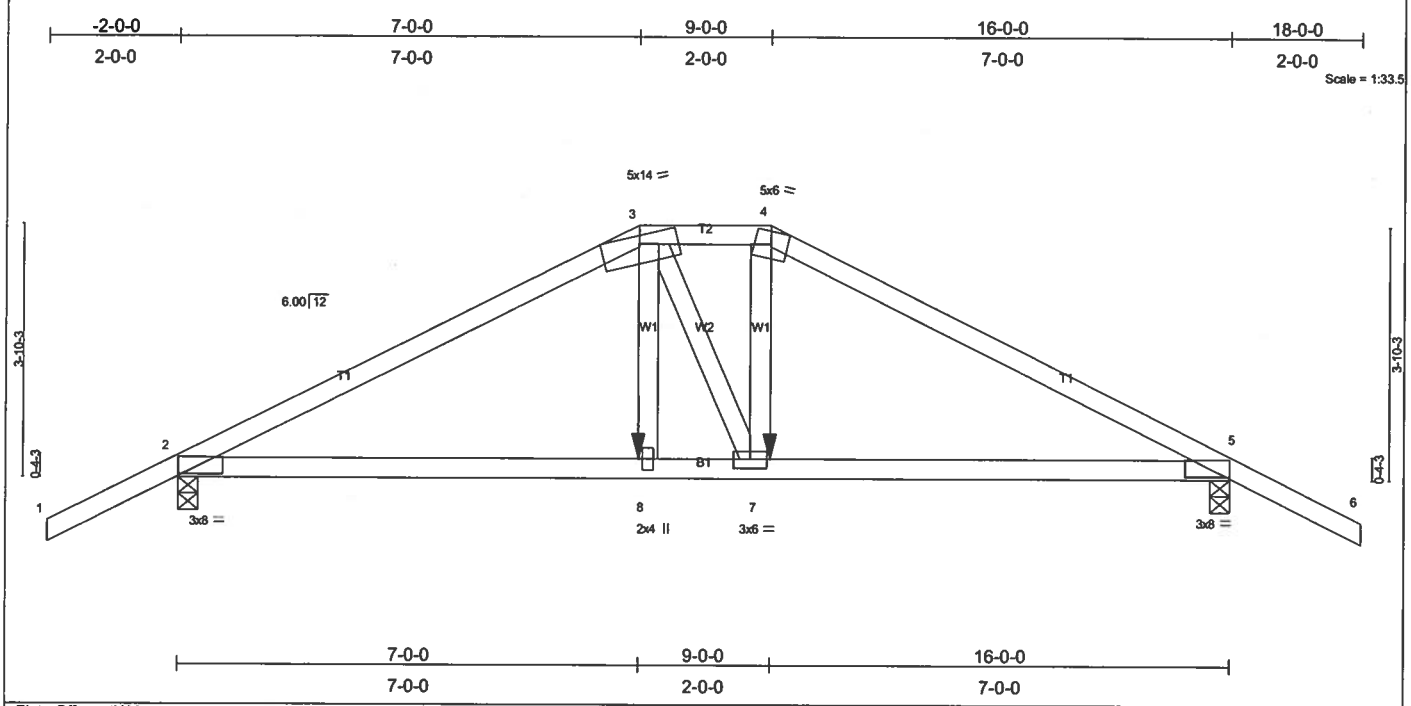


Plate Offsets (X,Y): [2:0-8-0,0-0-6], [5:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.12	2-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.20	2-8	>943	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.27	Horz(TL)	0.05	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 72 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.

REACTIONS (lb/size) 2=1414/0-3-8, 5=1414/0-3-8
Max Horz 2=-87(load case 5)
Max Uplift2=-669(load case 4), 5=-669(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-2325/961, 3-4=-2027/930, 4-5=-2329/963, 5-6=0/47
BOT CHORD 2-8=-782/1993, 7-8=-792/2022, 5-7=-760/1997
WEBS 3-8=-262/719, 3-7=-143/162, 4-7=-308/833

JOINT STRESS INDEX
2 = 0.74, 3 = 0.92, 4 = 0.65, 5 = 0.74, 7 = 0.54 and 8 = 0.52

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 669 lb uplift at joint 2 and 669 lb uplift at joint 5.
6) Girder carries hip end with 7-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 9-0-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

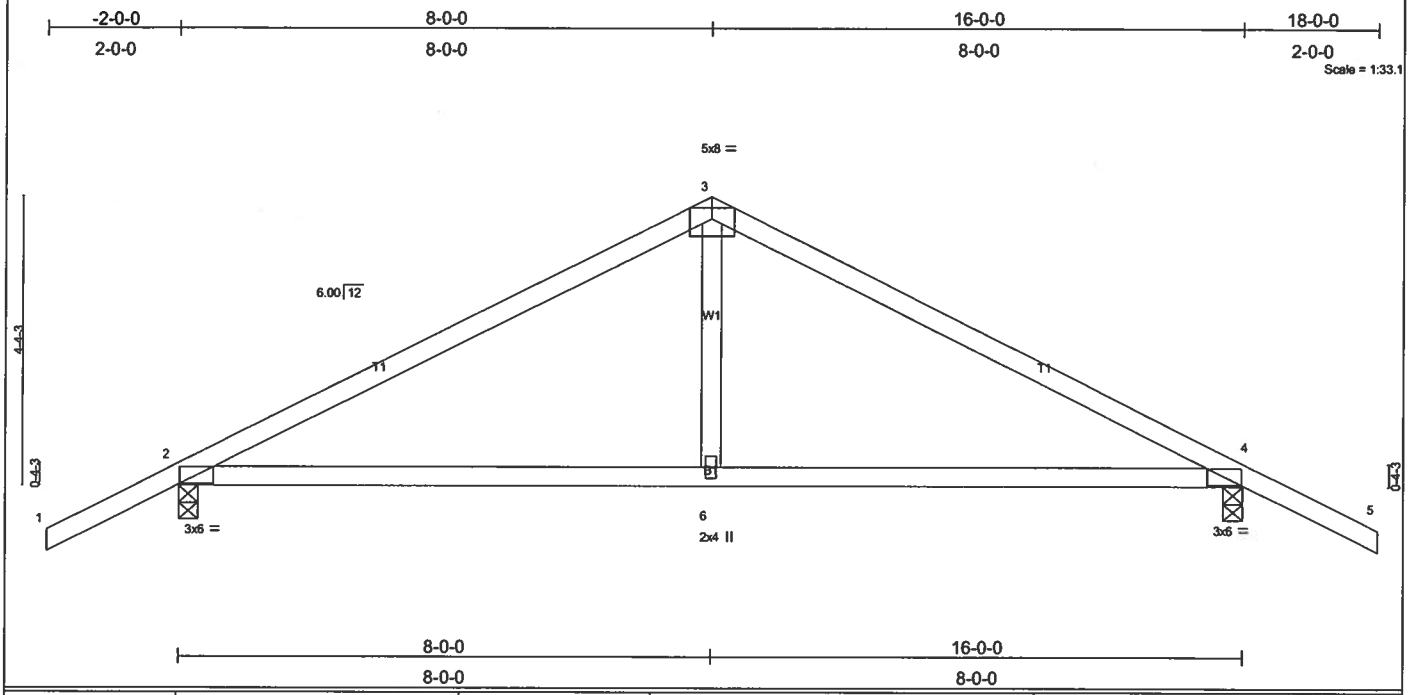
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-122(F=-68), 4-6=-54, 2-8=-30, 7-8=-68(F=-38), 5-7=-30
Concentrated Loads (lb)
Vert: 8=-539(F) 7=-539(F)

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061067

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T18	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:42:59 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.13	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.20	2-6	>925	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.02	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 63 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=776/0-3-8, 4=776/0-3-8
Max Horz 2=94(load case 5)
Max Uplift2=-342(load case 5), 4=-342(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-930/361, 3-4=-930/361, 4-5=0/47
BOT CHORD 2-6=-140/752, 4-6=-140/752
WEBS 3-6=0/295

JOINT STRESS INDEX
2 = 0.62, 3 = 1.00, 4 = 0.62 and 6 = 0.22

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 342 lb uplift at joint 2 and 342 lb uplift at joint 4.

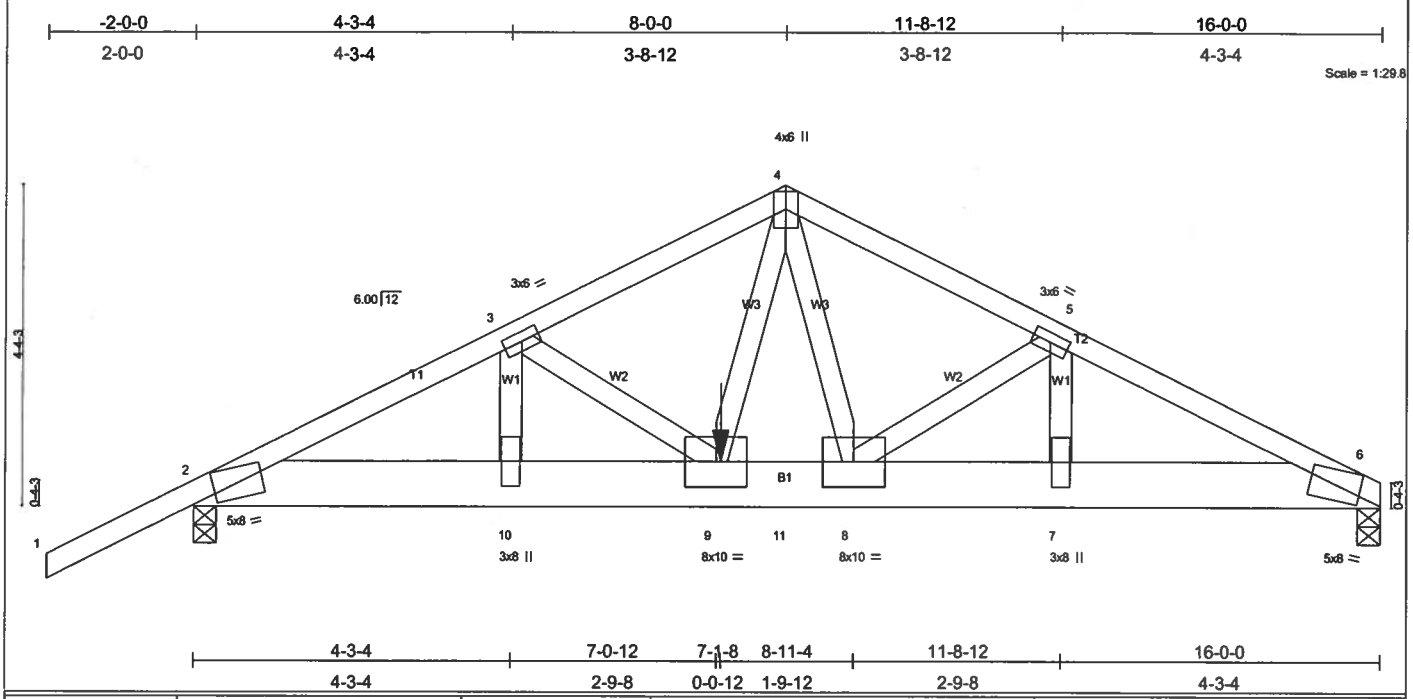
LOAD CASE(S) Standard

AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0829061068

Job	Truss	Truss Type	Qty	Ply	RICHARD KEEN - LOT 35 W/E
L208875	T19	COMMON	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Aug 29 14:43:00 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.10	8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.15	8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.44	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 208 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=4710/0-3-8, 2=3158/0-3-8
Max Horz 2=127(load case 4)
Max Uplift6=-1744(load case 5), 2=-1243(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-6167/2211, 3-4=-6128/2287, 4-5=-6150/2296, 5-6=-7836/2890
BOT CHORD 2-10=-1968/5488, 9-10=-1968/5488, 9-11=-1714/4840, 8-11=-1714/4840, 7-8=-2543/7005, 6-7=-2543/7005
WEBS 3-10=-190/167, 3-9=-99/95, 4-9=-977/2640, 4-8=-1022/2723, 5-8=-1902/777, 5-7=-612/1612

JOINT STRESS INDEX
2 = 0.81, 3 = 0.60, 4 = 0.63, 5 = 0.60, 6 = 0.81, 7 = 0.26, 8 = 0.40, 9 = 0.40 and 10 = 0.26

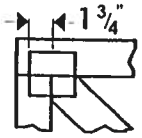
NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-4-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1744 lb uplift at joint 6 and 1243 lb uplift at joint 2.
7) Girder carries tie-in span(s): 26-0-0 from 8-0-0 to 16-0-0
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2474 lb down and 934 lb up at 7-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-11=-30, 6-11=-534(F=-504)
Concentrated Loads (lb)
Vert: 9=-2474(F)

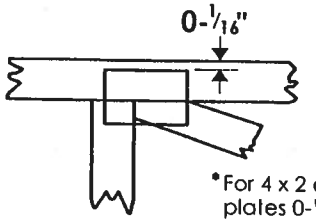
AUGUST 29, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 0-1/16" from outside edge of truss.

*This symbol indicates the required direction of slots in connector plates.

***Plate location details available in MiTek 20/20 software or upon request.**

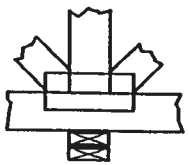
PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

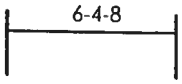


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

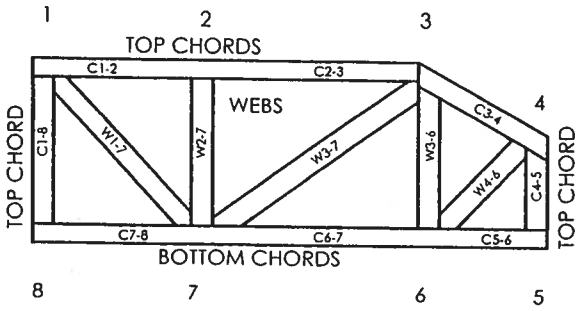
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

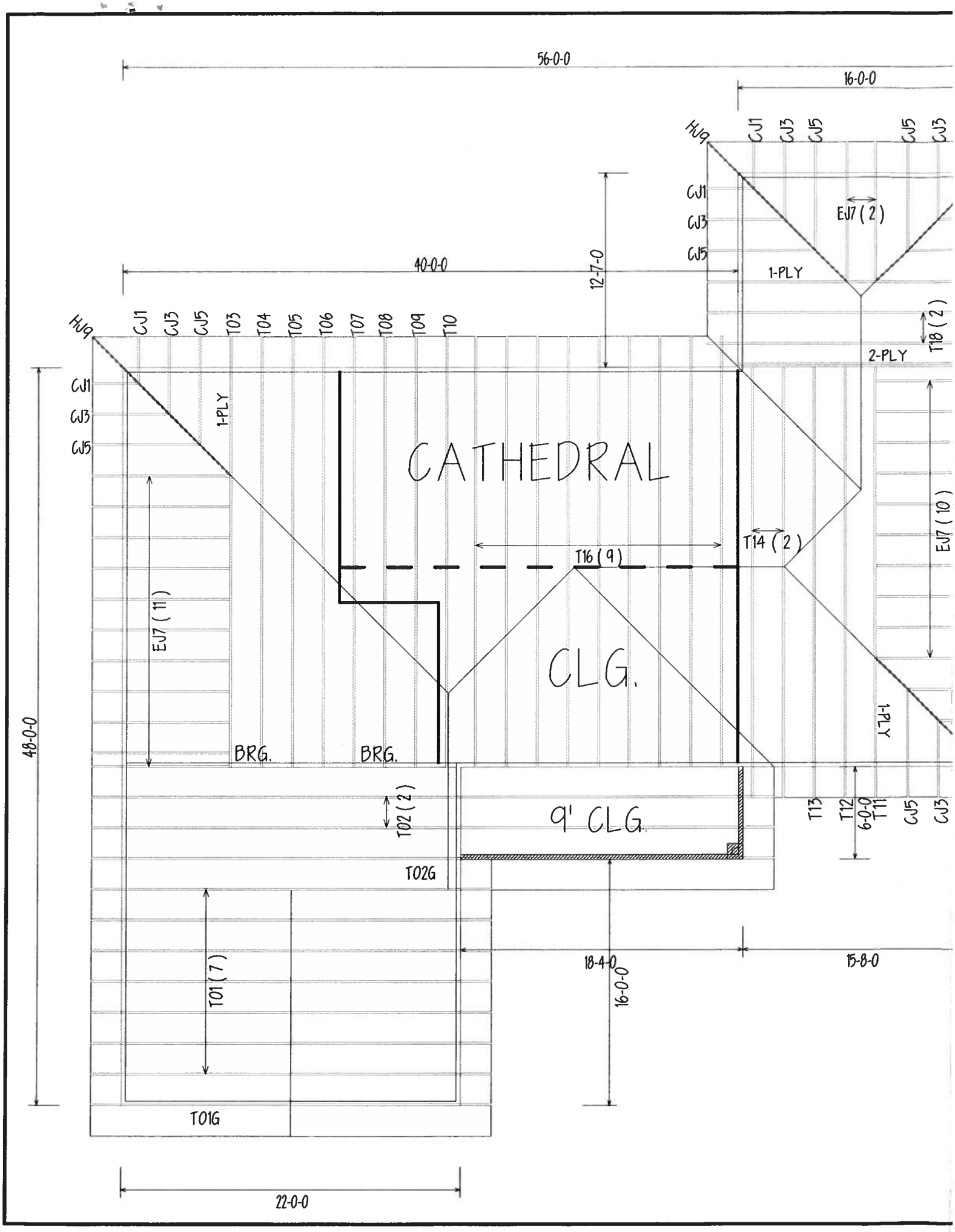
TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.


56-0-0
16-0-0
40-0-0
12-7-0
48-0-0
22-0-0
18-4-0
16-0-0
15-8-0
6-0-0
HU9
CJ1
CJ3
CJ5
TO3
TO4
TO5
TO6
TO7
TO8
TO9
TO10
T11
T12
T13
1-PLY
2-PLY
EJ7 (2)
T18 (2)
EJ7 (10)
EJ7 (11)
T16 (9)
T14 (2)
CATHEDRAL
CLG.
BRG.
BRG.
T02 (2)
9' CLG.
TO2G
TO1 (7)
TO1G