CK# 3

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0608-46 Date Received 8-11-06 By LH Permit # 1229/25083

Application Approved by - Zoning Official BLK Date 22.08.06 Plans Examiner OK JTH Date 8-21-06

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

Comments Section 2.3.1 Legal Non conforming lot of Record

Applicants Name Linda Roder Phone 386-752-2281

Address 387 SW Kemp Ct Lake City FL 32024

Owners Name Seth Heitzman Construction Inc. Phone 867-1295

911 Address 9115 SW State Road 47 Lake City FL 32024

Contractors Name Seth Heitzman Phone 867-1295

Address POB 1046 Lake City FL 32025

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers/ Mark Disosway

Mortgage Lenders Name & Address People's State Bank

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

Property ID Number 15-5S-16-03622-053 Estimated Cost of Construction 75,000

Subdivision Name Timberlane Lot 3 Block ____ Unit ____ Phase ____

Driving Directions State Road 47 South, One mile on L past Columbia City, see sign 2nd lot on (L) before privet Rd to (L) off 47 south

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage 1.04 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 51'-10" Side 27'-6" Side 27'-6" Rear 295'-1"

Total Building Height 14'-3" Number of Stories 1 Heated Floor Area 1407 Roof Pitch 5/12

TOTAL 2112

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 CBC1251065

Competency Card Number ____

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

NOTARY PUBLIC STATE OF FLORIDA

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me

is ____ day of ____ 20____.

onally known____ or Produced Identification____

Notary Signature

1611 message 10/2/06

FAX MEMORANDUM

MEMORANDUM

FLORIDA DEPARTMENT OF TRANSPORTATION

To: Mr. John Kerce, Dept. Director Columbia Co. Building & Zoning Dept. **Fax No: 386-758-2160**	**From:** Dale L. Cray, FDOT Permits Insp. **Date: 9-26-2006 Fax No. 386-961-7183** **Attention:**

( ) Sign and return. ( ) For your files. ( ) Please call me. (**XX**) FYI ( ) For Review

REF: Existing Res. D/W / Inspected On:9-25-2006
PROJECT: New Home / Existing: Res. Joint-Use Access S.R.27 (S)
PARCEL ID No: 15-5s-16-0322-053 PERMIT# N/A SEC#29020
MILE POST N/A +- Engineer: N/A

Mr. Kerce:

Please accept this as our legal notice of final passing inspection for an existing joint-use driveway for **Seth Heitzman 9115 SW S.R. 47 S Lake City,** Fl. 32024.

This access has been inspected and the connection is acceptable and meets FDOT ACCESS Standard Requirements. This residential access is a shared driveway between two parcels.

If further information is required on this project please do not hesitate to contact this office for additional access permitting information details. My office number is 961-7193 or 961-7146.

Sincerely,

Dale L. Cray
Access Permits Inspector

Columbia County Property Appraiser

DB Last Updated: 8/1/2006

2006 Proposed Values

Parcel: 15-5S-16-03622-053

Tax Record | Property Card | Interactive GIS Map | Print

Owner & Property Info

<< Prev Search Result: 2 of 3 Next >>

Owner's Name	SETH HEITZMAN CONSTRUCTION INC
Site Address	
Mailing Address	P O BOX 3642 LAKE CITY, FL 32056
Description	LOT 3 TIMBERLANE S/D. ORB 679-37, 762-1799, 874-784, WD 1080-2205. WD 1084-2435.

Use Desc. (code)	VACANT (000000)
Neighborhood	15516.02
Tax District	3
UD Codes	MKTA02
Market Area	02
Total Land Area	1.040 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	$8,000.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$8,000.00

Just Value	$8,000.00
Class Value	$0.00
Assessed Value	$8,000.00
Exempt Value	$0.00
Total Taxable Value	$8,000.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vimp	Sale Qual	Sale RCode	Sale Price
5/19/2006	1084/2435	WD	V	Q		$26,000.00
4/7/2006	1080/2205	WD	V	Q		$12,000.00
3/1/1989	679/37	AG	V	Q		$6,900.00

Building Characteristics

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

Extra Features & Out Buildings

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

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1.000 LT - (1.040AC)	1.00/1.00/1.00/1.00	$8,000.00	$8,000.00

Columbia County Property Appraiser

DB Last Updated: 8/1/2006

Last Parcel 2 of 3 Next Parcel

FAX COVER SHEET

A & B CONSTRUCTION
P.O. BOX 39
FT. WHITE, FL, 32038
(O) 386-497-2311
(F) 386-497-4866

SEND TO: Columbia Co. Building Dept.

ATTENTION: Connie

FAX NUMBER: 758-2160

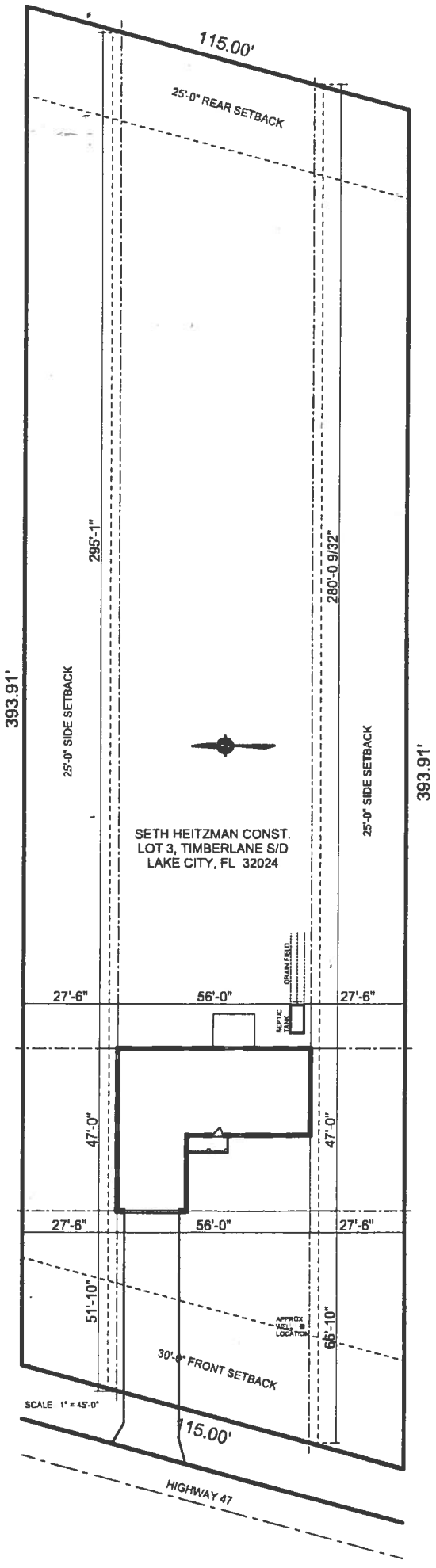
FROM: LISA OR KELLY FORD... 386-497-2311

TOTAL NUMBER PAGES: ___

COMMENTS:

Site plan for Errol & Sandra Kelly

FAXED By: Kristina Date: 9-26-06


115.00'
25'-0" REAR SETBACK
295'-1"
280'-0 9/32"
393.91'
25'-0" SIDE SETBACK
25'-0" SIDE SETBACK
393.91'
SETH HEITZMAN CONST.
LOT 3, TIMBERLANE S/D
LAKE CITY, FL 32024
DRAIN FIELD
SEPTIC TANK
27'-6"
56'-0"
27'-6"
47'-0"
47'-0"
27'-6"
56'-0"
27'-6"
51'-10"
66'-10"
30'-0" FRONT SETBACK
SCALE 1" = 45'-0"
115.00'
HIGHWAY 47

1.04 acres

Prepared by:

Sierra Title, LLC
619 SW Baya Drive, Suite 102
Lake City, Florida 32025

File Number: 06-0165

General Warranty Deed

Made this May 19, 2006 A.D. By **Peter Bakowski, a married man**, 10012 N Dale Mabry, Suite 109, Tampa, Florida 33618, hereinafter called the grantor, to **Seth Heitzman Construction, Inc.**, whose post office address is: PO Box 3642, Lake City Fl 32056, hereinafter called the grantee:

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

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

Lot 3, TIMBERLANE SUBDIVISION, according to the map or plat thereof as recorded in Plat Book 5, Page 126, 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.

Parcel ID Number:

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

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

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

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

Signed, sealed and delivered in our presence:

Elizabeth R. Calhoun
Witness Printed Name ELIZABETH R CALHOUN

Peter Bakowski (Seal)
Peter Bakowski
Address: 10012 N Dale Mabry, Suite 109, Tampa, Florida 33618

Breanna Robidoux
Witness Printed Name BREANNA ROBIDOUX

Inst:2006012773 Date:05/25/2006 Time:14:26
Doc Stamp-Deed : 182.00
S.T. DC,P.DeWitt Cason,Columbia County B:1084 P:2435

State of Florida
County of ~~Columbia~~ HILLSBOROUGH

The foregoing instrument was acknowledged before me this 19th day of May, 2006, by Peter Bakowski, a married man, who is/are personally known to me or who has produced DL as identification.

ELIZABETH R. CALHOUN
MY COMMISSION # DD 392611
EXPIRES: February 19, 2009
Bonded Thru Notary Public Underwriters

Elizabeth R Calhoun
Notary Public
Print Name: ELIZABETH R CALHOUN
My Commission Expires: 02/19/09

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 06-390
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

PERMIT NO._____ **TAX FOLIO NO.:** R03622-053

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

1. Description of property:

Lot 3, TIMBERLANE SUBDIVISION, a subdivision according to the plat thereof recorded in Plat Book 5, Page 126 of the public records of Columbia County, Florida.

2. General description of improvement: Construction of Dwelling

3. Owner information:
   a. Name and address: SETH HEITZMAN CONSTRUCTION, INC.
   Post Office Box 3642, Lake City, FL 32024

   b. Interest in property: Fee Simple

   c. Name and address of fee simple title holder (if other than Owner): None

4. Contractor: SETH HEITZMAN CONSTRUCTION, INC.
   Post Office Box 3642, Lake City, FL 32024

5. Surety n/a
   a. Name and address:
   b. Amount of bond:

6. Lender: PEOPLES STATE BANK
   350 SW Main Blvd., Lake City, FL 32025

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: None

8. In addition to himself, Owner designates Christopher Dampier at Peoples State Bank, 350 SW Main Blvd., Lake City, FL 32025 to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified). July 14, 2007.

SETH HEITZMAN CONSTRUCTION, INC.

Inst:200616972 Date:07/17/2006 Time:16:27
DC,P.DeWitt Cason,Columbia County B:1089 P:2604

SETH A. HEITZMAN, President

The foregoing instrument was acknowledged before me this 14th day of July, 2006, by SETH A. HEITZMAN, as President of SETH HEITZMAN CONSTRUCTION, INC., who is personally known to me and who did not take an oath.

Notary Public
My commission expires:_____

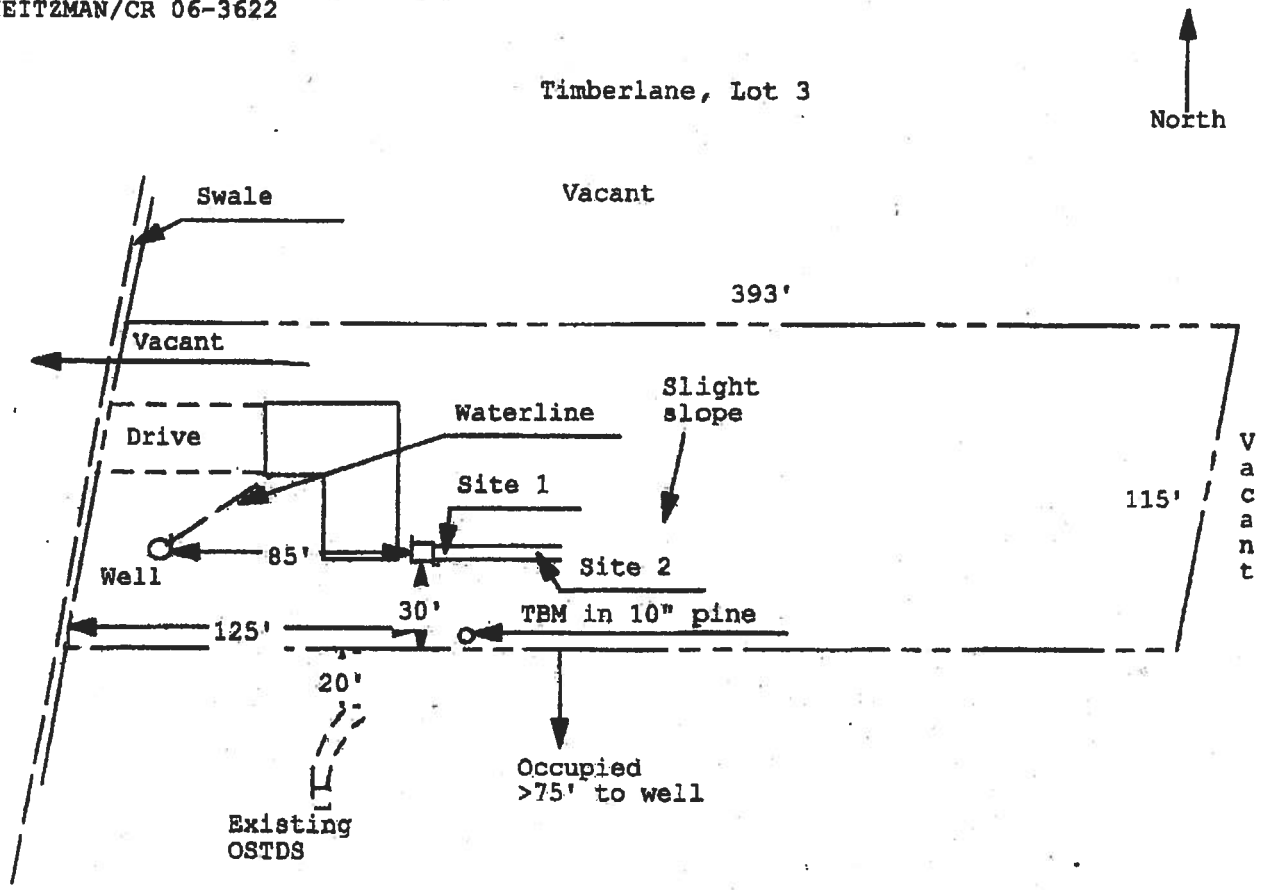
TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

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

Permit Application Number: 06-0695N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

HEITZMAN/CR 06-3622



1 inch = 60 feet

Site Plan Submitted By Paul Lloyd **Date** 7/27/06

Plan Approved ✓ **Not Approved** ____ **Date** 8/3/06

By [signature] [signature] **CPHU**

Notes: _____

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1954
FAX (904) 755-7022
[illegible]
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

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

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

Thank you,

Donald D. Hall
DDH/jk

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:	**Seth Heitzman Construction - Oliver Model**	Builder:	**Seth Heitzman Const.**
Address:	**Lot: 3, Sub: Timberlane SD, Plat:**	Permitting Office:	**Columbia County**
City, State:	**Lake City, FL 32024-**	Permit Number:	25083
Owner:	**Spec House**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing		New	
2. Single family or multi-family		Single family	
3. Number of units, if multi-family		1	
4. Number of Bedrooms		3	
5. Is this a worst case?		No	
6. Conditioned floor area (ft²)		1407 ft²	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor: (or Single or Double DEFAULT)	7a.	Description Area (Dble Default) 174.0 ft²	
b. SHGC: (or Clear or Tint DEFAULT)	7b.	(Clear) 174.0 ft²	
8. Floor types			
a. Slab-On-Grade Edge Insulation		R=0.0, 162.0(p) ft	
b. N/A			
c. N/A			
9. Wall types			
a. Frame, Wood, Exterior		R=13.0, 942.0 ft²	
b. Frame, Wood, Adjacent		R=13.0, 142.0 ft²	
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic		R=30.0, 1407.0 ft²	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage		Sup. R=6.0, 40.0 ft	
b. N/A			

12. Cooling systems		
a. Central Unit		Cap: 29.0 kBtu/hr
		SEER: 11.00
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump		Cap: 29.0 kBtu/hr
		HSPF: 6.80
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance		Cap: 50.0 gallons
		EF: 0.90
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		PT,

Glass/Floor Area: 0.12

Total as-built points: 22269
Total base points: 22374

PASS

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

PREPARED BY: Jon Morris

DATE: 5-19-06

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

OWNER/AGENT: 8-10-06

DATE:

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

BUILDING OFFICIAL:

DATE:

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Timberlane SD, Plat: , Lake City, FL, 32024-** 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	1407.0	20.04	5075.3	Double, Clear	W	1.5	8.0	45.0	38.52	0.96	1660.9
				Double, Clear	W	1.5	8.0	40.0	38.52	0.96	1476.4
				Double, Clear	W	1.5	8.0	9.0	38.52	0.96	332.2
				Double, Clear	N	1.5	8.0	20.0	19.20	0.97	371.4
				Double, Clear	E	1.5	8.0	20.0	42.06	0.96	805.5
				Double, Clear	E	1.5	8.0	40.0	42.06	0.96	1611.1
				As-Built Total:				**174.0**			**6257.6**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	142.0	0.70	99.4	Frame, Wood, Exterior			13.0	942.0	1.50		1413.0
Exterior	942.0	1.70	1601.4	Frame, Wood, Adjacent			13.0	142.0	0.60		85.2
Base Total:	**1084.0**		**1700.8**	**As-Built Total:**				**1084.0**			**1498.2**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	18.0	1.60	28.8	Exterior Insulated				20.0	4.10		82.0
Exterior	20.0	4.10	82.0	Adjacent Insulated				18.0	1.60		28.8
Base Total:	**38.0**		**110.8**	**As-Built Total:**				**38.0**			**110.8**
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	1407.0	1.73	2434.1	Under Attic			30.0	1407.0	1.73 X 1.00		2434.1
Base Total:	**1407.0**		**2434.1**	**As-Built Total:**				**1407.0**			**2434.1**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	162.0(p)	-37.0	-5994.0	Slab-On-Grade Edge Insulation			0.0	162.0(p	-41.20		-6674.4
Raised	0.0	0.00	0.0								
Base Total:			**-5994.0**	**As-Built Total:**				**162.0**			**-6674.4**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1407.0	10.21	14365.5					1407.0	10.21		14365.5

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Timberlane SD, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 17692.5			**Summer As-Built Points:**					**17991.7**
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 29000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
			17992	1.00	(1.09 x 1.147 x 1.00)	0.310	0.950	6630.3
17692.5	**0.4266**	**7547.6**	**17991.7**	**1.00**	**1.250**	**0.310**	**0.950**	**6630.3**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Timberlane SD, Plat: , Lake City, FL, 32024-** 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	1407.0	12.74	3226.5	Double, Clear	W	1.5	8.0	45.0	20.73	1.01	943.2	
				Double, Clear	W	1.5	8.0	40.0	20.73	1.01	838.4	
				Double, Clear	W	1.5	8.0	9.0	20.73	1.01	188.6	
				Double, Clear	N	1.5	8.0	20.0	24.58	1.00	492.0	
				Double, Clear	E	1.5	8.0	20.0	18.79	1.02	383.3	
				Double, Clear	E	1.5	8.0	40.0	18.79	1.02	766.6	
				As-Built Total:				**174.0**			**3612.1**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =	Points		
Adjacent	142.0	3.60	511.2	Frame, Wood, Exterior			13.0	942.0	3.40	3202.8		
Exterior	942.0	3.70	3485.4	Frame, Wood, Adjacent			13.0	142.0	3.30	468.6		
Base Total:	**1084.0**		**3996.6**	**As-Built Total:**				**1084.0**		**3671.4**		
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =	Points		
Adjacent	18.0	8.00	144.0	Exterior Insulated				20.0	8.40	168.0		
Exterior	20.0	8.40	168.0	Adjacent Insulated				18.0	8.00	144.0		
Base Total:	**38.0**		**312.0**	**As-Built Total:**				**38.0**		**312.0**		
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =	Points		
Under Attic	1407.0	2.05	2884.3	Under Attic			30.0	1407.0	2.05 X 1.00	2884.3		
Base Total:	**1407.0**		**2884.3**	**As-Built Total:**				**1407.0**		**2884.3**		
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =	Points		
Slab	162.0(p)	8.9	1441.8	Slab-On-Grade Edge Insulation			0.0	162.0(p	18.80	3045.6		
Raised	0.0	0.00	0.0									
Base Total:			**1441.8**	**As-Built Total:**				**162.0**		**3045.6**		
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =	Points		
	1407.0	-0.59	-830.1					1407.0	-0.59	-830.1		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Timberlane SD, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**11031.2**	**Winter As-Built Points:**					**12695.3**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 29000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			12695.3	1.000	(1.069 x 1.169 x 1.00)	0.501	0.950	7558.0
11031.2	**0.6274**	**6920.9**	**12695.3**	**1.00**	**1.250**	**0.501**	**0.950**	**7558.0**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Timberlane SD, Plat: , Lake City, FL, 32024-** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
7548	**6921**	**7905**	**22374**	**6630**	**7558**	**8081**	**22269**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 3, Sub: Timberlane SD, Plat: , Lake City, FL, 32024-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.1

The higher the score, the more efficient the home.

Spec House, Lot: 3, Sub: Timberlane SD, Plat: , Lake City, FL, 32024-

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	3	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	1407 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description Area (Dble Default) 174.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 174.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 162.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 942.0 ft²	
b.	Frame, Wood, Adjacent	R=13.0, 142.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1407.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 29.0 kBtu/hr SEER: 11.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 29.0 kBtu/hr HSPF: 6.80	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 gallons EF: 0.90	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,	

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

Builder Signature: _____ Date: _____

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

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

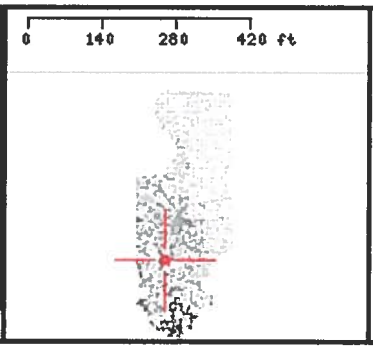
1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

Columbia County Property Appraiser

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

PARCEL: 15-5S-16-03622-053 - VACANT (000000)

Name:	SETH HEITZMAN CONSTRUCTION INC	LandVal	$8,000.00
Site:		BldgVal	$0.00
Mail:	P O BOX 3642 LAKE CITY, FL 32056	ApprVal	$8,000.00
		JustVal	$8,000.00
Sales Info	5/19/2006 $26,000.00 V / Q	Assd	$8,000.00
	4/7/2006 $12,000.00 V / Q	Exmpt	$0.00
	3/1/1989 $6,900.00 V / Q	Taxable	$8,000.00



This information, GIS Map Updated: 8/1/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001229

DATE 10/04/2006 PARCEL ID # 15-5S-16-03622-053

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER SETH HEITZMAN PHONE 867-1295

ADDRESS 9115 SW SR 47 LAKE CITY FL 32024

CONTRACTOR SETH HEITZMAN PHONE 867-1295

LOCATION OF PROPERTY 47S, ONE MILE ON THE LEFT PAST COLUMBA CITY, 2ND LOT ON LEFT

BEFORE PRIVET ROAD

SUBDIVISION/LOT/BLOCK/PHASE/UNIT TIMBERLANE 3

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid 25.00

Project Information for:	L166925		
Builder:	SETH HEITZMAN	Date:	6/7/2006
Lot:	LOT 3 TIMBERLANE	Start Number:	**1168**
Subdivision:	N/A		
County or City:	COLUMBIA COUNTY		
Truss Page Count:	24		

Truss Design Load Information (UNO) Design Program: MiTek 5.2 / 6.2

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)

Owner Builder
Address: N/A
N/A Designer: **108**

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

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.

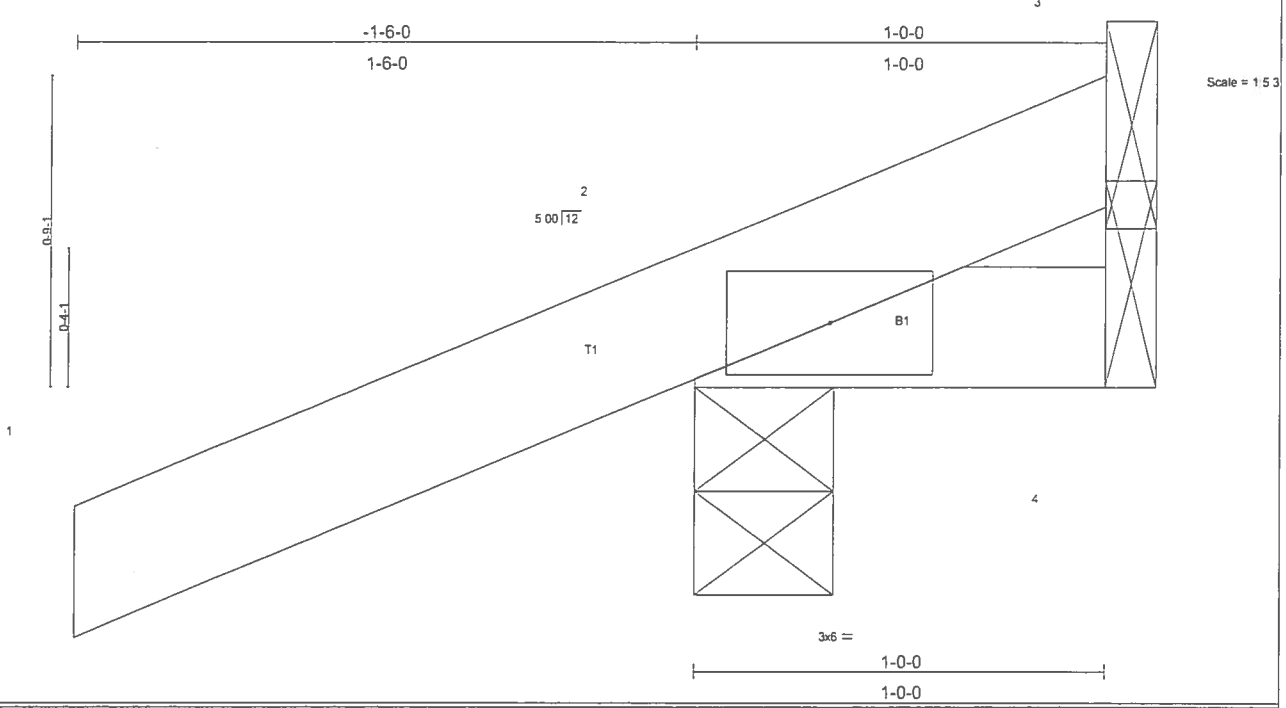
#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0607061168	6/7/2006				
2	CJ3	0607061169	6/7/2006				
3	CJ5	0607061170	6/7/2006				
4	EJ7	0607061171	6/7/2006				
5	HJ6	0607061172	6/7/2006				
6	HJ9	0607061173	6/7/2006				
7	T01	0607061174	6/7/2006				
8	T02	0607061175	6/7/2006				
9	T03	0607061176	6/7/2006				
10	T04	0607061177	6/7/2006				
11	T05	0607061178	6/7/2006				
12	T06	0607061179	6/7/2006				
13	T07	0607061180	6/7/2006				
14	T08	0607061181	6/7/2006				
15	T09	0607061182	6/7/2006				
16	T10	0607061183	6/7/2006				
17	T11	0607061184	6/7/2006				
18	T12	0607061185	6/7/2006				
19	T13	0607061186	6/7/2006				
20	T14	0607061187	6/7/2006				
21	T15	0607061188	6/7/2006				
22	T16	0607061189	6/7/2006				
23	T17	0607061190	6/7/2006				
24	T18	0607061191	6/7/2006				

JUN 07 2006

Dwg.#0607061168

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	CJ1	JACK	12	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:37 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	0.14	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: 6 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=189/0-4-0, 4=14/Mechanical, 3=-41/Mechanical
Max Horz 2=59(load case 5)
Max Uplift2=-189(load case 5), 4=-9(load case 3), 3=-41(load case 1)
Max Grav 2=189(load case 1), 4=14(load case 1), 3=58(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-39/28
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and 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.
2) Refer to girder(s) for truss to truss connections.
3) All bearings are assumed to be SYP No.2
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2, 9 lb uplift at joint 4 and 41 lb uplift at joint 3.

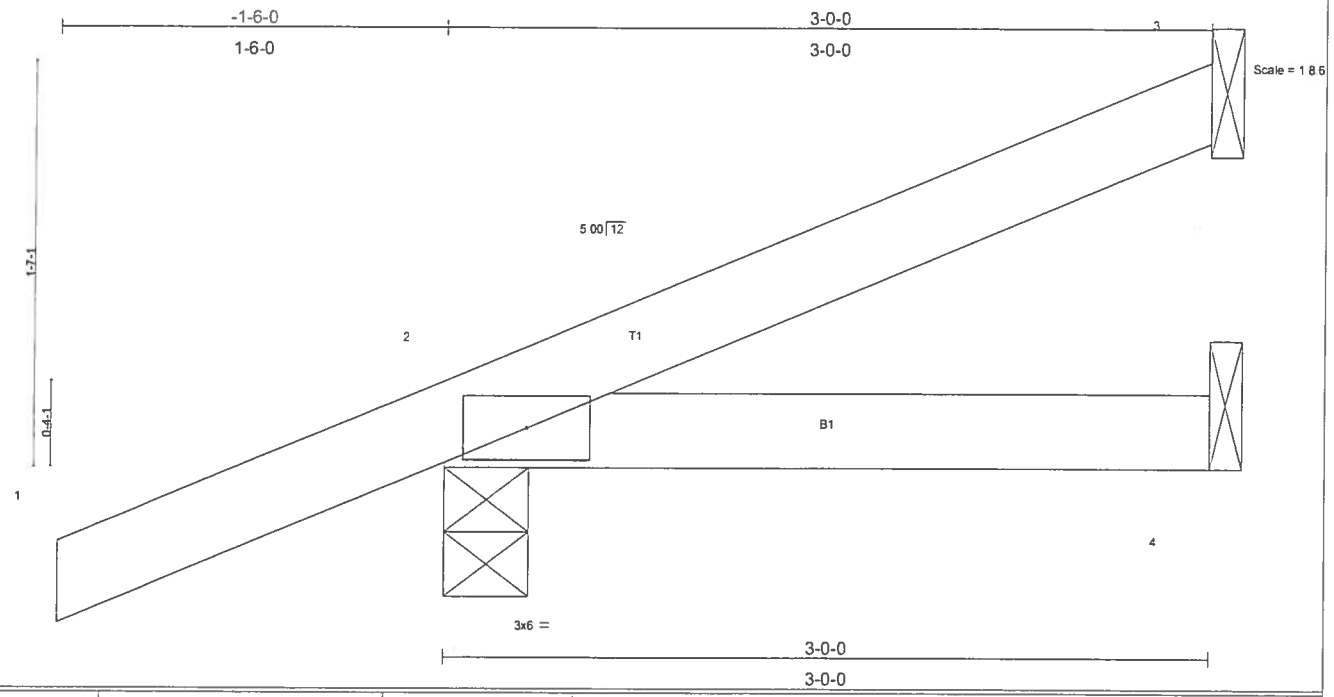
LOAD CASE(S) Standard

JUNE 07, 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.#0607061169

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	CJ3	JACK	12	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:38 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	0.16	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	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: 12 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=48/Mechanical, 2=233/0-4-0, 4=42/Mechanical
Max Horz 2=96(load case 5)
Max Uplift3=-33(load case 5), 2=-191(load case 5), 4=-26(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-42/14
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and 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.
2) Refer to girder(s) for truss to truss connections.
3) All bearings are assumed to be SYP No.2
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3, 191 lb uplift at joint 2 and 26 lb uplift at joint 4.

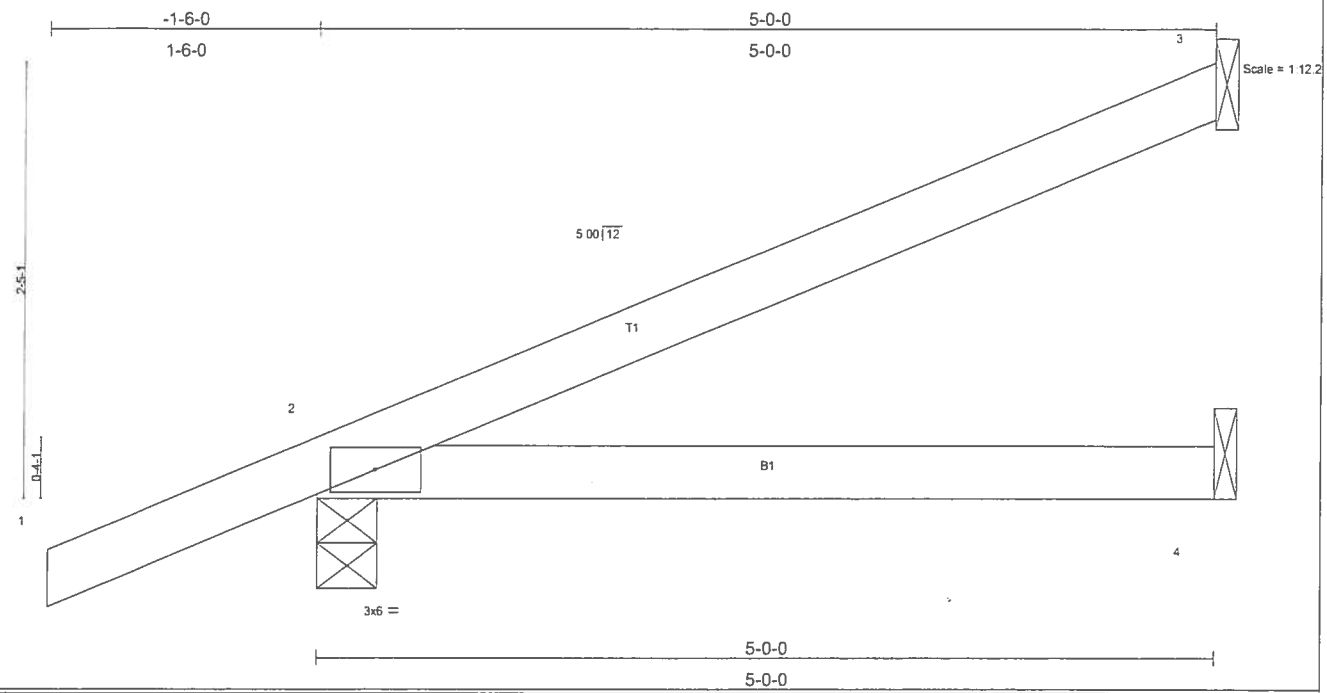
LOAD CASE(S) Standard

JUNE 07, 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.#0607061170

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	CJ5	JACK	10	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:39 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	0.22	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: 18 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=113/Mechanical, 2=306/0-4-0, 4=72/Mechanical
Max Horz 2=135(load case 5)
Max Uplift3=-92(load case 5), 2=-167(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-77/35
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Refer to girder(s) for truss to truss connections.
3) All bearings are assumed to be SYP No.2
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 3 and 167 lb uplift at joint 2.

LOAD CASE(S) Standard

JUNE 07, 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.#0607061171

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	EJ7	MONO TRUSS	21	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:39 2006 Page 1

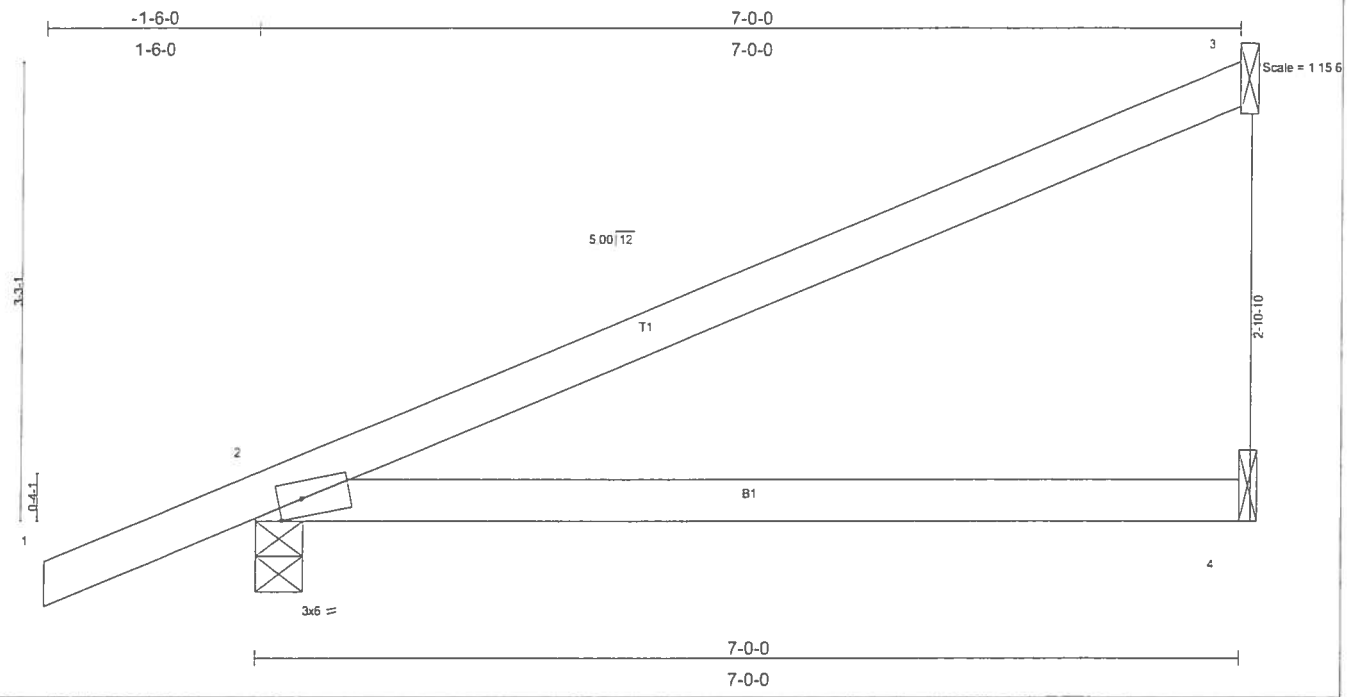


Plate Offsets (X,Y): [2:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.13	2-4	>620	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.22	2-4	>374	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: 24 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=166/Mechanical, 2=385/0-4-0, 4=107/Mechanical
Max Horz 2=173(load case 5)
Max Uplift3=-128(load case 5), 2=-185(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-99/51
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Refer to girder(s) for truss to truss connections.
3) All bearings are assumed to be SYP No.2
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 3 and 185 lb uplift at joint 2.

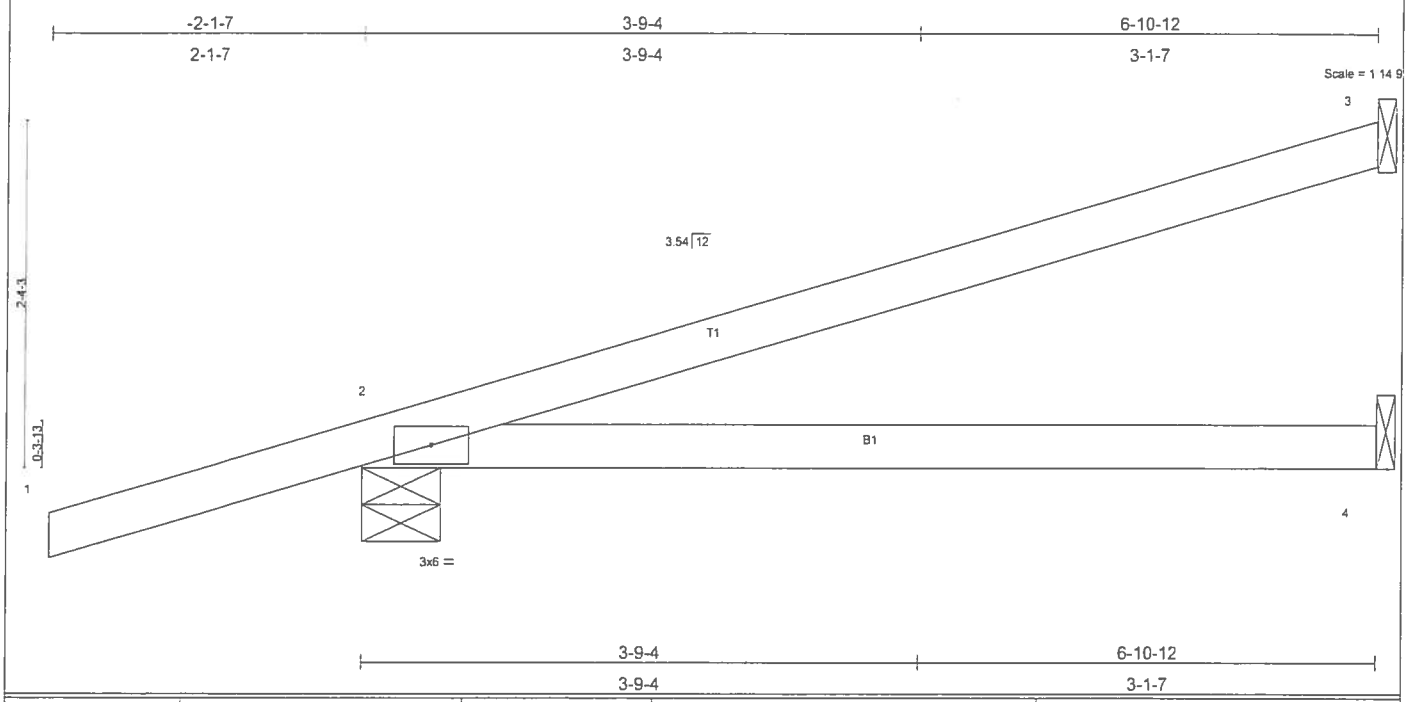
LOAD CASE(S) Standard

JUNE 07, 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.#0607061172

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	HJ6	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:40 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	0.43	Vert(LL)	-0.08	2-4	>936	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.15	2-4	>535	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 24 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 6-10-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=184/Mechanical, 2=319/0-6-7, 4=113/Mechanical
Max Horz 2=122(load case 2)
Max Uplift3=-138(load case 2), 2=-203(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-56/37
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) All bearings are assumed to be SYP No.2
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 3 and 203 lb uplift at joint 2.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

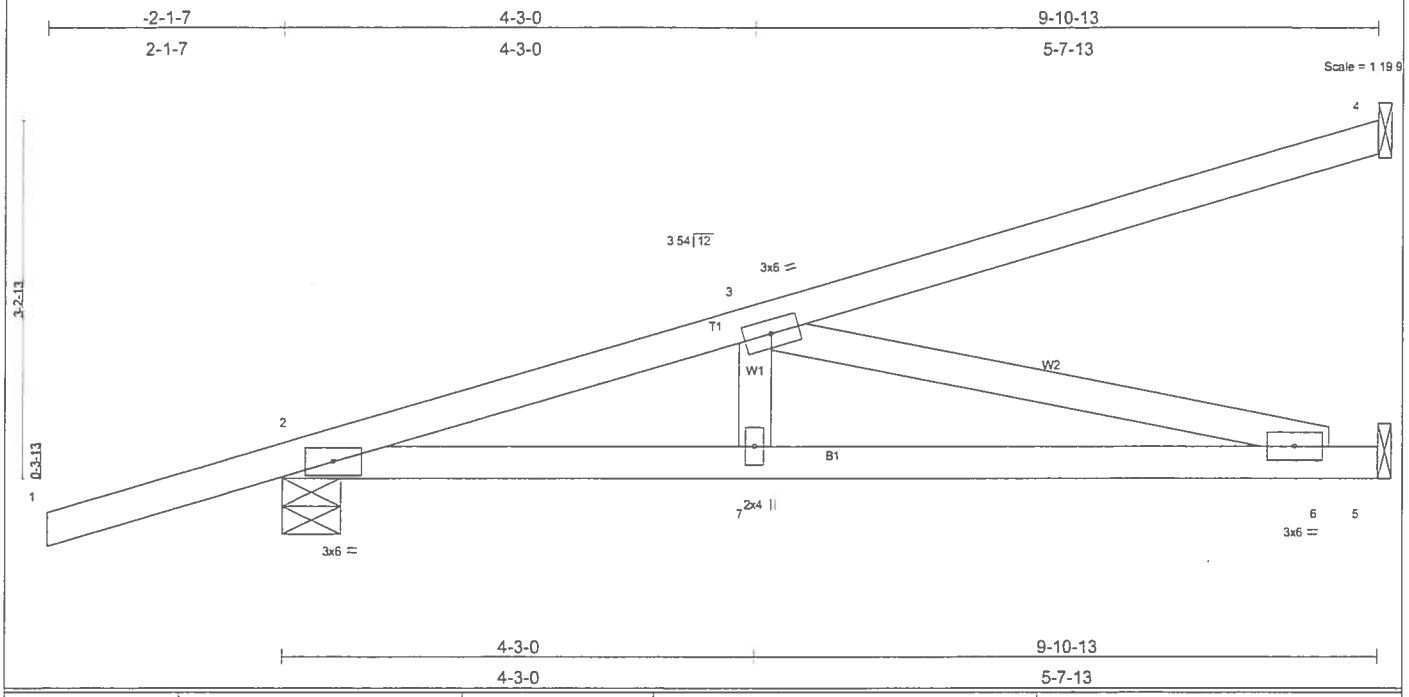
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25)-to-3=-93(F=-20, B=-20), 2=0(F=15, B=15)-to-4=-52(F=-11, B=-11)

JUNE 07, 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.#0607061173

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	HJ9	MONO TRUSS	5	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:41 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	0.33	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.12	6-7	>938	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.40	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 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=130/Mechanical, 2=547/0-6-7, 5=256/Mechanical
Max Horz 2=174(load case 2)
Max Uplift4=-99(load case 2), 2=-283(load case 2), 5=-56(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-3=-877/198, 3-4=-49/28
BOT CHORD 2-7=-289/807, 6-7=-289/807, 5-6=0/0
WEBS 3-7=0/168, 3-6=-831/298

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Refer to girder(s) for truss to truss connections.
3) All bearings are assumed to be SYP No.2
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 4, 283 lb uplift at joint 2 and 56 lb uplift at joint 5.

LOAD CASE(S) Standard

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0607061174

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T01	HIP	1	1	Job Reference (optional)

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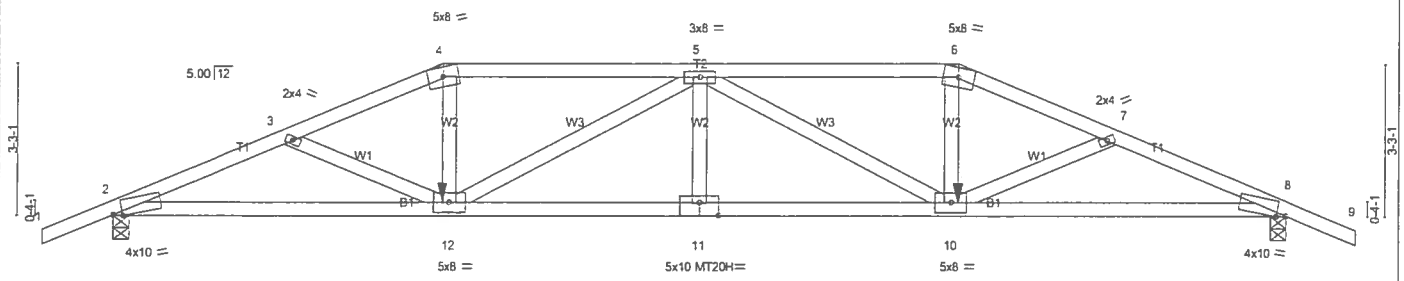
Scale = 1:46.9



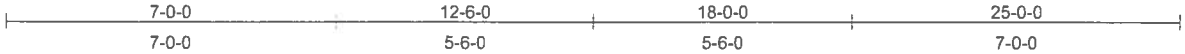


Plate Offsets (X,Y): [2:0-2-6,0-0-11], [8:0-2-6,0-0-11], [11:0-5-0,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.34	11-12	>872	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.87	Vert(TL)	-0.55	11-12	>543	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.73	Horz(TL)	0.17	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 121 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-8 oc bracing.

REACTIONS (lb/size) 2=2199/0-4-0, 8=2199/0-4-0
Max Horz 2=-65(load case 5)
Max Uplift2=-905(load case 4), 8=-905(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-4692/1855, 3-4=-4651/1901, 4-5=-4355/1813, 5-6=-4355/1813, 6-7=-4651/1901, 7-8=-4692/1855, 8-9=0/30
BOT CHORD 2-12=-1643/4239, 11-12=-2125/5275, 10-11=-2125/5275, 8-10=-1639/4239
WEBS 3-12=-59/216, 4-12=-412/1316, 5-12=-1131/481, 5-11=0/350, 5-10=-1131/481, 6-10=-412/1316, 7-10=-60/216

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 plates are MT20 plates unless otherwise indicated.
5) All bearings are assumed to be SYP No.2
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 905 lb uplift at joint 2 and 905 lb uplift at joint 8.
7) Girder carries hip end with 7-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 255 lb up at 18-0-0, and 539 lb down and 255 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) 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, 4-6=-117(F=-63), 6-9=-54, 2-12=-30, 10-12=-65(F=-35), 8-10=-30
Concentrated Loads (lb)
Vert: 12=-539(F) 10=-539(F)

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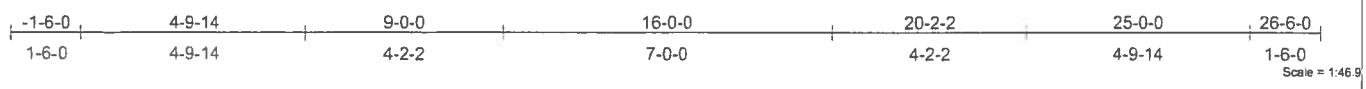
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0607061175

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T02	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:43 2006 Page 1



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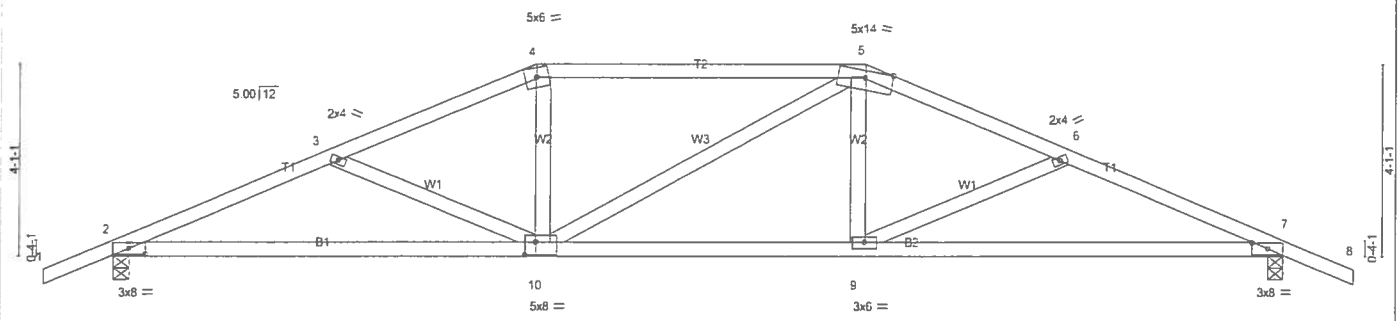

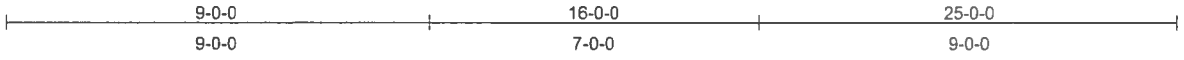

Plate Offsets (X,Y): [2:0-4-2,0-1-8], [7:0-4-2,0-1-8], [10:0-2-12,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.21	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.35	7-9	>842	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 117 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 4-0-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-7-8 oc bracing.

REACTIONS (lb/size) 2=1126/0-4-0, 7=1126/0-4-0
Max Horz 2=-76(load case 6)
Max Uplift2=-412(load case 5), 7=-412(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2046/875, 3-4=-1790/746, 4-5=-1618/736, 5-6=-1781/744, 6-7=-2044/875, 7-8=0/30
BOT CHORD 2-10=-688/1847, 9-10=-494/1623, 7-9=-688/1845
WEBS 3-10=-253/211, 4-10=-38/344, 5-10=-143/132, 5-9=-36/346, 6-9=-259/212

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 412 lb uplift at joint 2 and 412 lb uplift at joint 7.

LOAD CASE(S) Standard

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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.#0607061176

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T03	HIP	1	1	Job Reference (optional)

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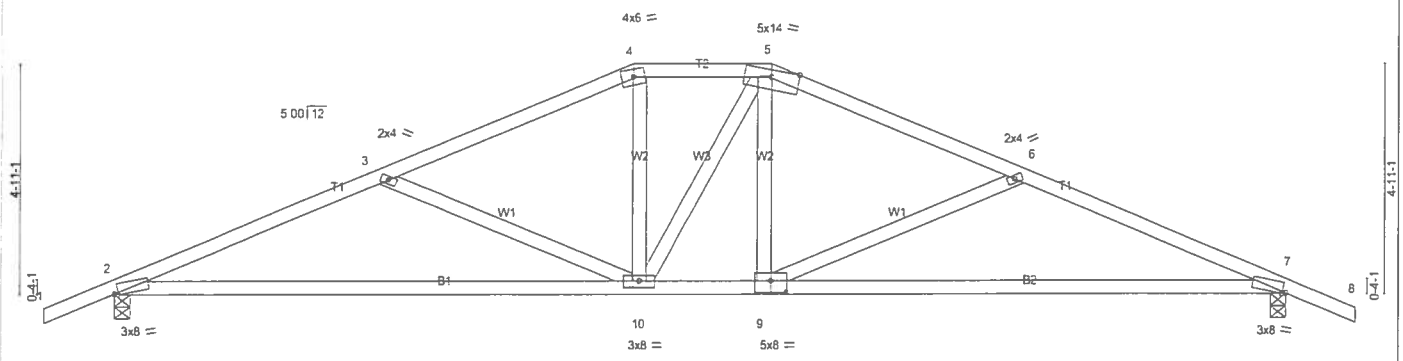
-1-6-0	5-9-14	11-0-0	14-0-0	19-2-2	25-0-0	26-6-0
1-6-0	5-9-14	5-2-2	3-0-0	5-2-2	5-9-14	1-6-0

Scale = 1:46.9



11-0-0	14-0-0	25-0-0
11-0-0	3-0-0	11-0-0

Plate Offsets (X,Y): [2:0-0-14,Edge], [7:0-0-14,Edge], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.38	7-9	>788	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.72	Vert(TL)	-0.64	7-9	>461	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: 120 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 3-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing.

REACTIONS (lb/size) 2=1126/0-4-0, 7=1126/0-4-0
Max Horz 2=-88(load case 6)
Max Uplift2=-427(load case 5), 7=-427(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-1988/894, 3-4=-1587/681, 4-5=-1418/678, 5-6=-1586/681, 6-7=-1988/894, 7-8=0/30
BOT CHORD 2-10=-699/1800, 9-10=-394/1416, 7-9=-699/1800
WEBS 3-10=-432/335, 4-10=-92/383, 5-10=-136/141, 5-9=-92/383, 6-9=-434/335

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 2 and 427 lb uplift at joint 7.

LOAD CASE(S) Standard

JUNE 07, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0607061177

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T04	COMMON	8	1	Job Reference (optional)

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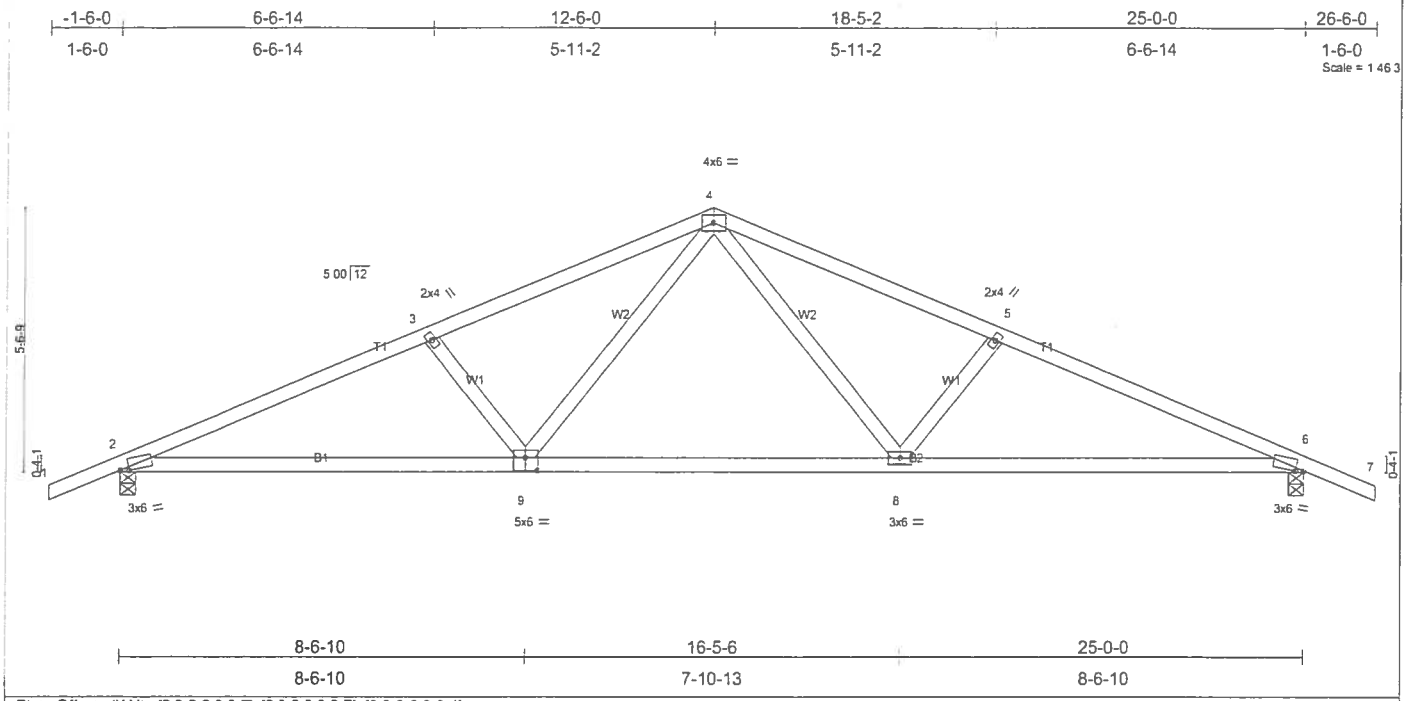

Plate Offsets (X,Y): [2:0-2-2,0-0-7], [6:0-2-2,0-0-7], [9:0-3-0,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	0.38	2-9	>787	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.31	2-9	>950	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.07	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 111 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 4-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-5-2 oc bracing.

REACTIONS (lb/size) 2=1126/0-4-0, 6=1126/0-4-0
Max Horz 2=-97(load case 6)
Max Uplift2=-605(load case 6), 6=-746(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2010/2015, 3-4=-1810/1958, 4-5=-1810/1958, 5-6=-2010/2015, 6-7=0/30
BOT CHORD 2-9=-1733/1804, 8-9=-1071/1222, 6-8=-1733/1804
WEBS 3-9=-341/312, 4-9=-788/666, 4-8=-787/666, 5-8=-341/312

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) All bearings are assumed to be SYP No.2
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 605 lb uplift at joint 2 and 746 lb uplift at joint 6.

LOAD CASE(S) Standard

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0607061178

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T05	MONO HIP	1	1	Job Reference (optional)

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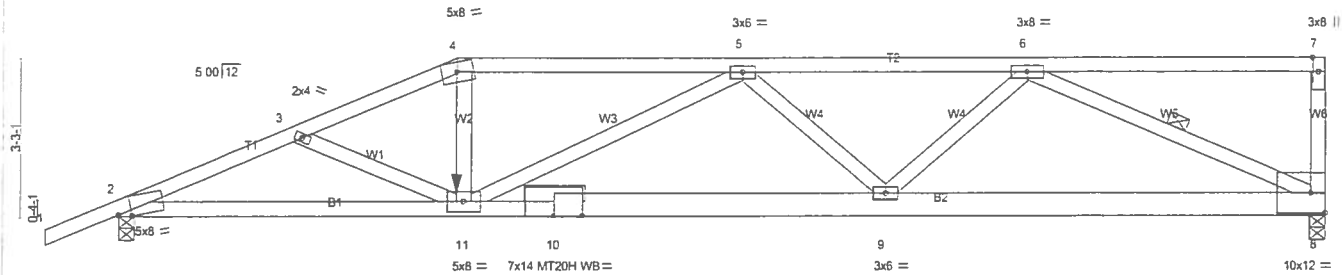
-1-6-0	3-9-14	7-0-0	12-10-13	18-9-11	25-0-0
1-6-0	3-9-14	3-2-2	5-10-13	5-10-13	6-2-5

Scale = 1:45.5



7-0-0	15-10-4	25-0-0
7-0-0	8-10-4	9-1-12

Plate Offsets (X,Y): [2:0-3-6,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	0.71	Vert(LL)	-0.32	9-11	>932	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.85	Vert(TL)	-0.52	9-11	>575	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.97	Horz(TL)	0.12	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 135 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D *Except*
B2 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W6 2 X 4 SYP No.2

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

REACTIONS (lb/size) 8=2302/0-4-0, 2=2146/0-4-0
Max Horz 2=175(load case 4)
Max Uplift8=-983(load case 2), 2=-873(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-4564/1803, 3-4=-4537/1859, 4-5=-4247/1776, 5-6=-4692/1859, 6-7=-229/95, 7-8=-356/266
BOT CHORD 2-11=-1700/4120, 10-11=-2200/5012, 9-10=-2199/5016, 8-9=-1663/3706
WEBS 3-11=-66/72, 4-11=-364/1238, 5-11=-860/479, 5-9=-448/476, 6-9=-275/1376, 6-8=-3851/1737

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 plates are MT20 plates unless otherwise indicated.
4) All bearings are assumed to be SYP No.2
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 983 lb uplift at joint 8 and 873 lb uplift at joint 2.
6) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 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 255 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: 1-4=-54, 4-7=-117(F=-63), 2-11=-30, 8-11=-65(F=-35)
Concentrated Loads (lb)
Vert: 11=-539(F)

JUNE 07, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0607061179

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T06	MONO HIP	1	1	Job Reference (optional)

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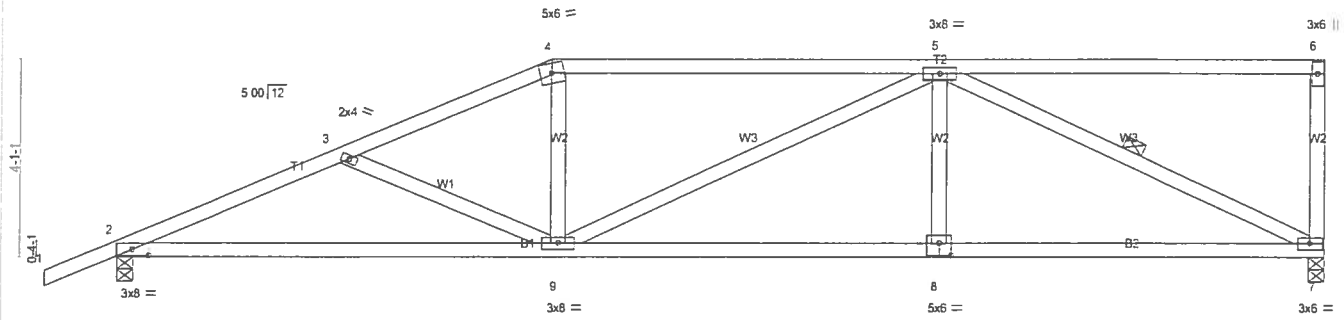
-1-6-0	4-9-14	9-0-0	17-0-0	25-0-0
1-6-0	4-9-14	4-2-2	8-0-0	8-0-0

Scale = 1:45.5



9-0-0	17-0-0	25-0-0
9-0-0	8-0-0	8-0-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.19	2-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.32	2-9	>914	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 125 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 4-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-10 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS (lb/size) 7=1034/0-4-0, 2=1130/0-4-0
Max Horz 2=213(load case 5)
Max Uplift7=-378(load case 3), 2=-404(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2055/832, 3-4=-1805/707, 4-5=-1648/702, 5-6=-94/35, 6-7=-199/139
BOT CHORD 2-9=-889/1854, 8-9=-653/1572, 7-8=-653/1572
WEBS 3-9=-239/205, 4-9=-6/328, 5-9=-83/84, 5-8=0/225, 5-7=-1642/686

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 378 lb uplift at joint 7 and 404 lb uplift at joint 2.

LOAD CASE(S) Standard

JUNE 07, 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.#0607061180

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T07	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:48 2006 Page 1

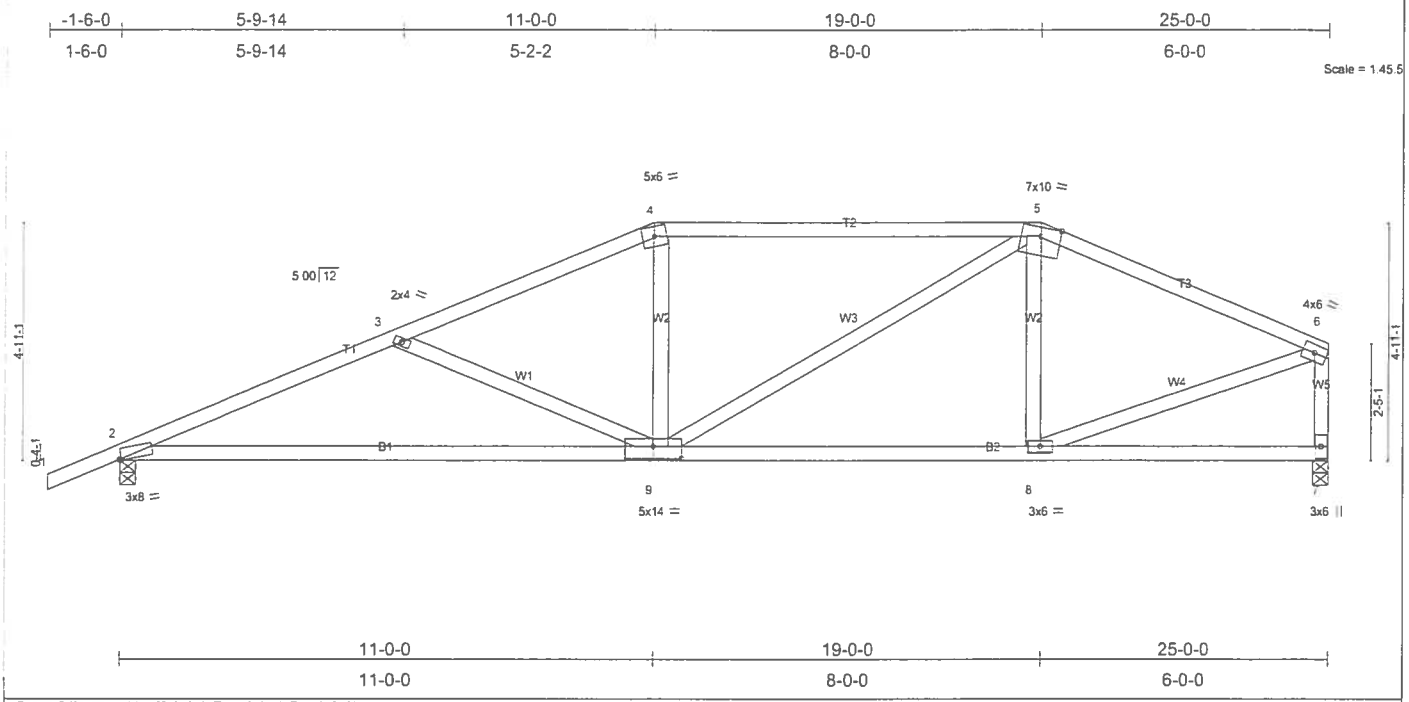


Plate Offsets (X,Y): [2:0-0-8,Edge], [9:0-7-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.34	2-9	>873	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.58	2-9	>511	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 125 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 3-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-0 oc bracing.

REACTIONS (lb/size) 2=1130/0-4-0, 7=1034/0-4-0
Max Horz 2=173(load case 5)
Max Uplift2=-425(load case 5), 7=-289(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-1989/867, 3-4=-1634/682, 4-5=-1461/684, 5-6=-1221/528, 6-7=-944/446
BOT CHORD 2-9=-832/1796, 8-9=-417/1075, 7-8=-45/84
WEBS 3-9=-366/298, 4-9=0/238, 5-9=-165/518, 5-8=-177/180, 6-8=-401/1060

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 425 lb uplift at joint 2 and 289 lb uplift at joint 7.

LOAD CASE(S) Standard

JUNE 07, 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.#0607061181

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T08	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:49 2006 Page 1

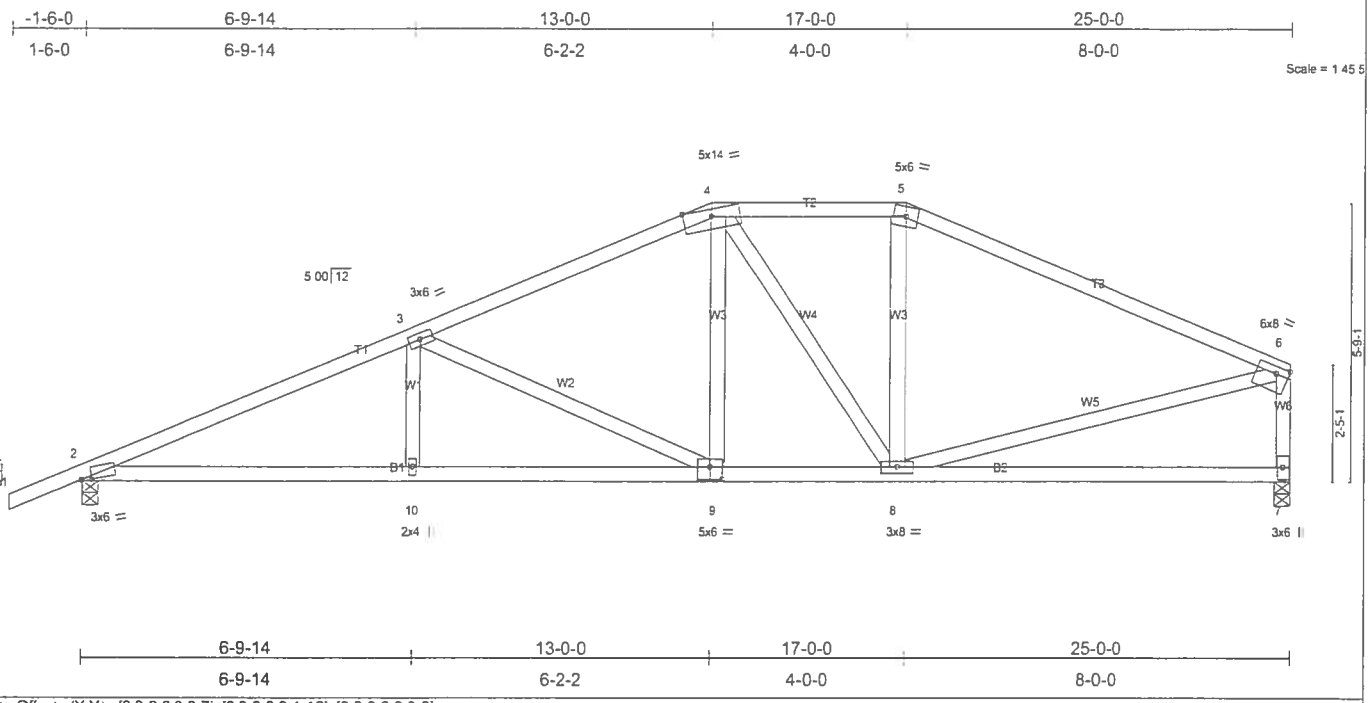


Plate Offsets (X,Y): [2:0-2-6,0-0-7], [6:0-3-0,0-1-12], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.19	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 133 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 *Except*
W6 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-3 oc bracing.

REACTIONS (lb/size) 2=1130/0-4-0, 7=1034/0-4-0
Max Horz 2=185(load case 5)
Max Uplift2=-437(load case 5), 7=-306(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2078/843, 3-4=-1351/620, 4-5=-1076/577, 5-6=-1248/551, 6-7=-904/460
BOT CHORD 2-10=-803/1849, 9-10=-803/1849, 8-9=-459/1192, 7-8=-113/211
WEBS 3-10=0/228, 3-9=-734/381, 4-9=-139/429, 4-8=-313/120, 5-8=0/231, 6-8=-310/893

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust): h=20ft; 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
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 437 lb uplift at joint 2 and 306 lb uplift at joint 7.

LOAD CASE(S) Standard

JUNE 07, 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.#0607061182

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T09	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:50 2006 Page 1

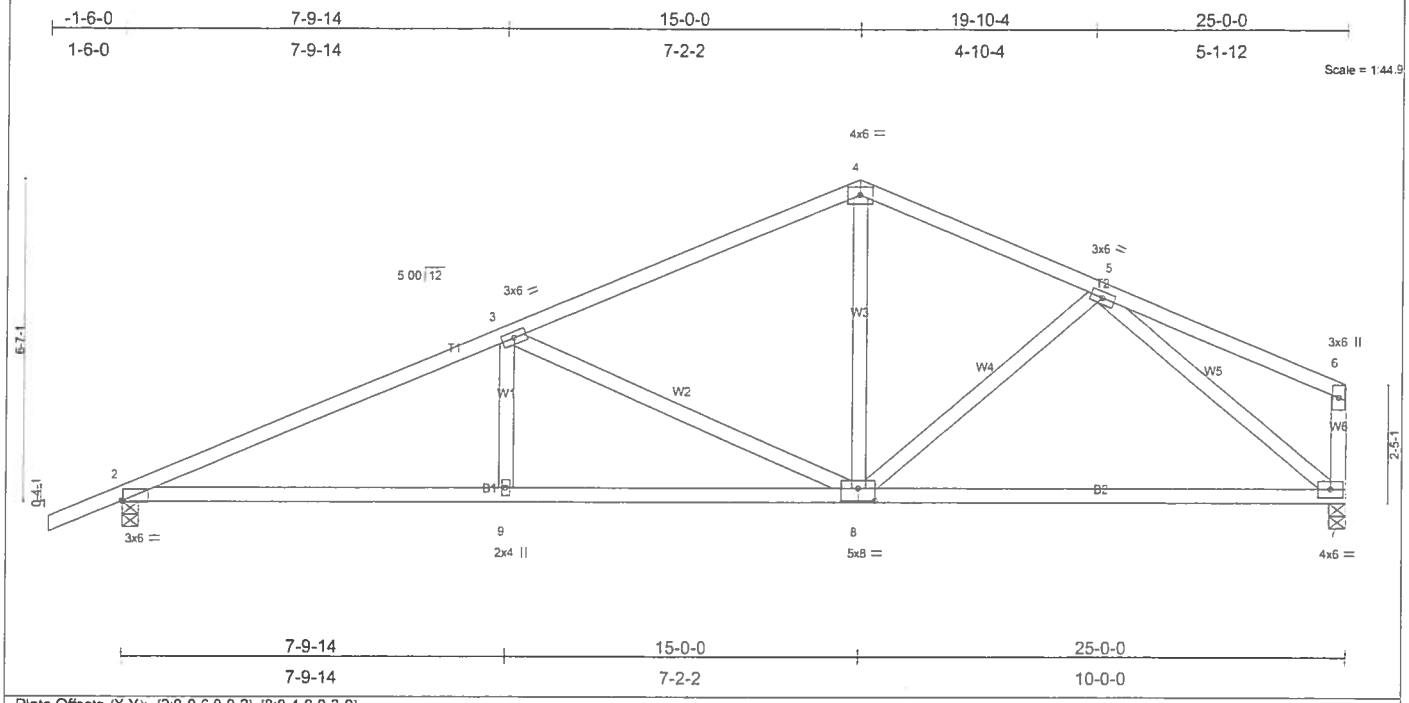


Plate Offsets (X,Y): [2:0-0-6,0-0-2], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.86	Vert(LL)	-0.19	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.33	7-8	>904	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 126 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 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.

REACTIONS (lb/size) 2=1130/0-4-0, 7=1034/0-4-0
Max Horz 2=196(load case 5)
Max Uplift2=-447(load case 5), 7=-321(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2007/837, 3-4=-1197/567, 4-5=-1160/578, 5-6=-235/85, 6-7=-212/130
BOT CHORD 2-9=-786/1777, 8-9=-786/1777, 7-8=-424/942
WEBS 3-9=0/237, 3-8=-834/452, 4-8=-172/526, 5-8=-7/227, 5-7=-1026/533

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 447 lb uplift at joint 2 and 321 lb uplift at joint 7.

LOAD CASE(S) Standard

JUNE 07, 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.#0607061183

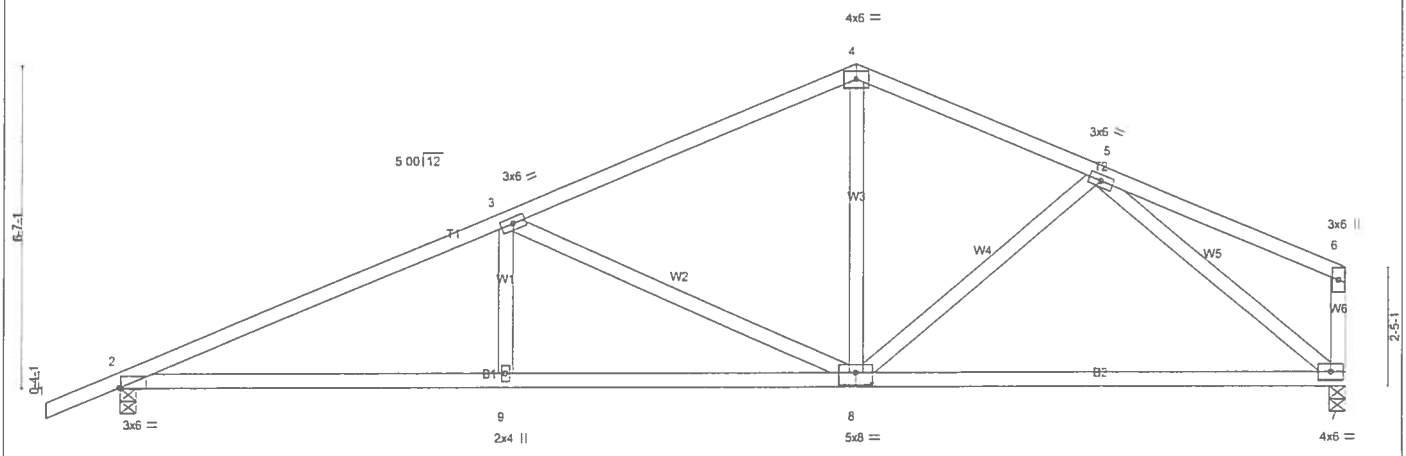
Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T10	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:51 2006 Page 1

-1-6-0 | 7-9-14 | 15-0-0 | 19-10-4 | 25-0-0

1-6-0 | 7-9-14 | 7-2-2 | 4-10-4 | 5-1-12

Scale = 1:44.9



7-9-14 | 15-0-0 | 25-0-0

7-9-14 | 7-2-2 | 10-0-0

Plate Offsets (X,Y): [2:0-0-6,0-0-2], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.86	Vert(LL)	-0.19	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.33	7-8	>904	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.06	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 126 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 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-8 oc bracing.

REACTIONS (lb/size) 2=1130/0-4-0, 7=1034/0-4-0
Max Horz 2=196(load case 5)
Max Uplift2=-447(load case 5), 7=-321(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2007/837, 3-4=-1197/567, 4-5=-1160/578, 5-6=-235/85, 6-7=-212/130
BOT CHORD 2-9=-786/1777, 8-9=-786/1777, 7-8=-424/942
WEBS 3-9=0/237, 3-8=-834/452, 4-8=-172/526, 5-8=-7/227, 5-7=-1026/533

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 447 lb uplift at joint 2 and 321 lb uplift at joint 7.

LOAD CASE(S) Standard

JUNE 07, 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.#0607061184

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T11	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:52 2006 Page 1

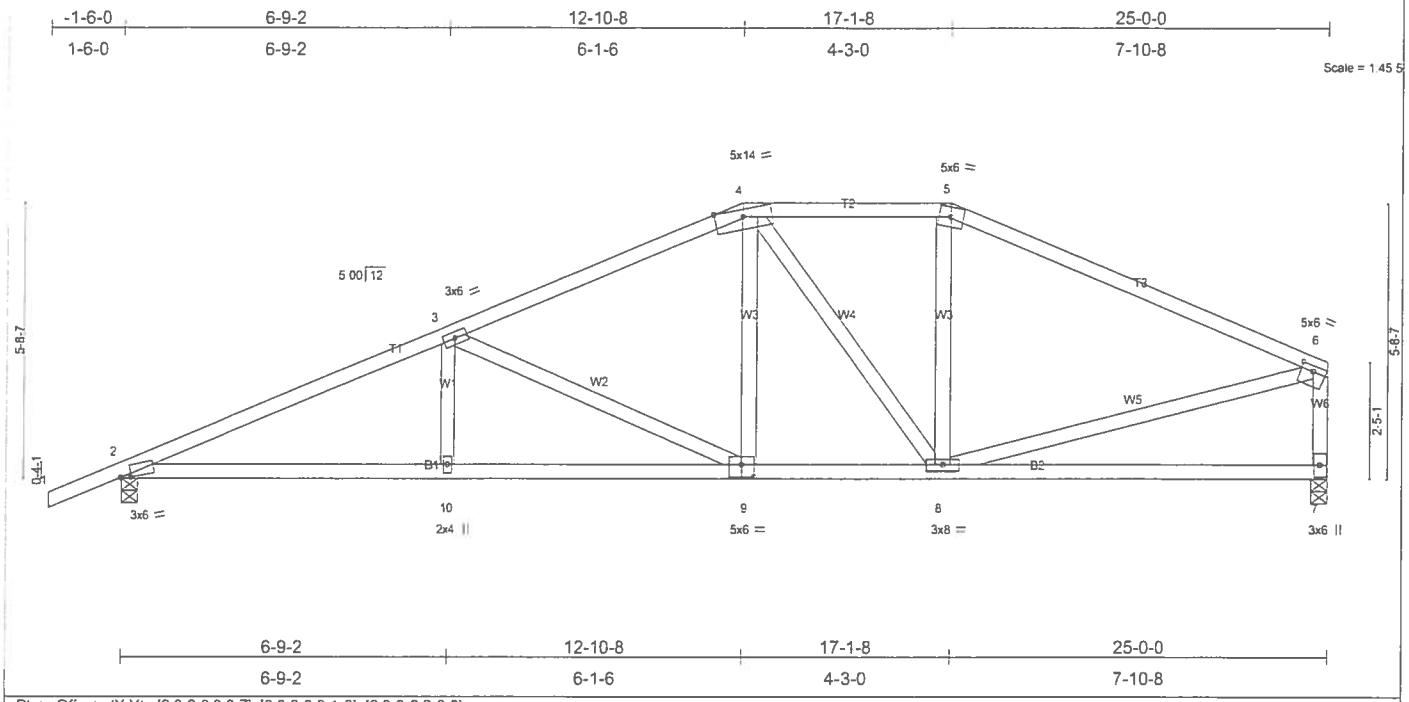


Plate Offsets (X,Y): [2:0-2-6,0-0-7], [6:0-3-0,0-1-8], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.98	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.19	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 132 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 4-0-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-3 oc bracing.

REACTIONS (lb/size) 2=1130/0-4-0, 7=1034/0-4-0
Max Horz 2=184(load case 5)
Max Uplift2=-437(load case 5), 7=-305(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2081/843, 3-4=-1364/624, 4-5=-1077/575, 5-6=-1247/550, 6-7=-906/459
BOT CHORD 2-10=-803/1852, 9-10=-803/1852, 8-9=-465/1205, 7-8=-107/200
WEBS 3-10=0/225, 3-9=-723/376, 4-9=-136/430, 4-8=-320/122, 5-8=0/225, 6-8=-316/906

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 437 lb uplift at joint 2 and 305 lb uplift at joint 7.

LOAD CASE(S) Standard

JUNE 07, 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

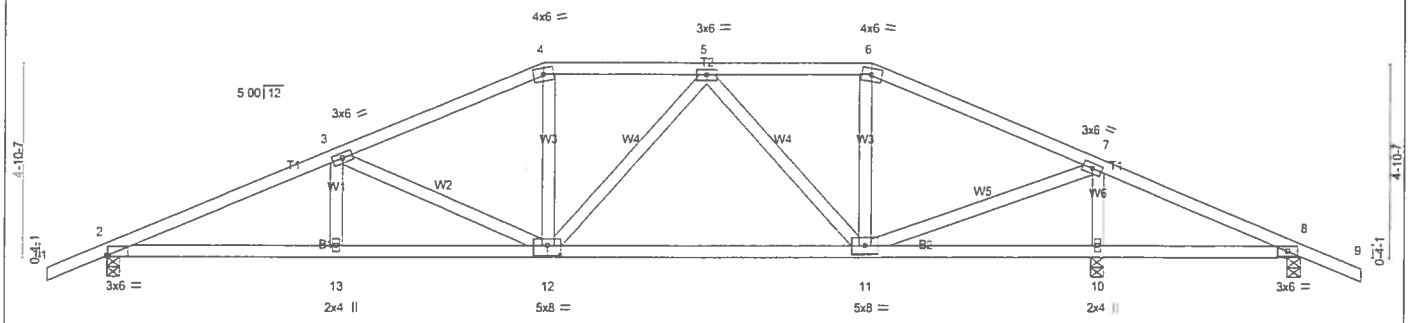
Dwg.#0607061185

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T12	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:53 2006 Page 1

-1-6-0	5-9-2	10-10-8	15-0-0	19-1-8	24-10-4	30-0-0	31-6-0
1-6-0	5-9-2	5-1-6	4-1-8	4-1-8	5-8-12	5-1-12	1-6-0

Scale = 1:55.3



5-9-2	10-10-8	19-1-8	24-10-4	30-0-0
5-9-2	5-1-6	8-3-0	5-8-12	5-1-12

Plate Offsets (X,Y): [2:0-0-6,0-0-2], [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	0.30	Vert(LL)	-0.15	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.25	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.04	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 150 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 4-3-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=1084/0-4-0, 10=1500/0-4-0, 8=88/0-4-0
Max Horz 2=87(load case 5)
Max Uplift2=-414(load case 5), 10=-465(load case 6), 8=-203(load case 6)
Max Grav 2=1084(load case 1), 10=1500(load case 1), 8=135(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2004/811, 3-4=-1465/646, 4-5=-1309/642, 5-6=-872/464, 6-7=-1005/450, 7-8=-141/498, 8-9=0/30
BOT CHORD 2-13=-625/1786, 12-13=-625/1786, 11-12=-327/1175, 10-11=-403/217, 8-10=-403/217
WEBS 3-13=0/154, 3-12=-538/292, 4-12=-47/287, 5-12=-79/226, 5-11=-517/220, 6-11=0/173, 7-11=-428/1353, 7-10=-1328/624

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 414 lb uplift at joint 2, 465 lb uplift at joint 10 and 203 lb uplift at joint 8.

LOAD CASE(S) Standard

JUNE 07, 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

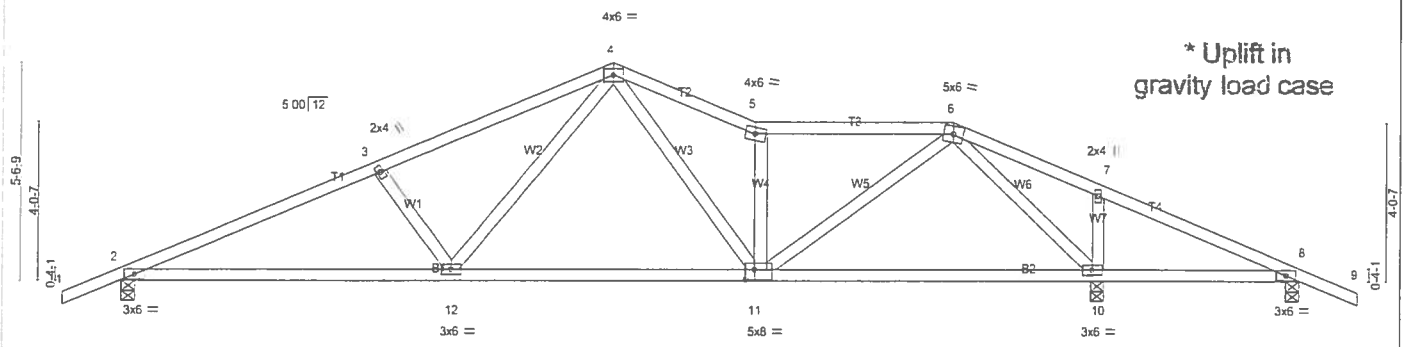
Dwg.#0607061186

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T13	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:54 2006 Page 1

-1-6-0	6-6-14	12-6-0	16-1-8	21-1-8	24-10-4	30-0-0	31-6-0
1-6-0	6-6-14	5-11-2	3-7-8	5-0-0	3-8-12	5-1-12	1-6-0

Scale = 1:56.0



8-4-10	16-1-8	24-10-4	30-0-0
8-4-10	7-8-14	8-8-12	5-1-12

Plate Offsets (X,Y): [11:0-2-12,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.17	2-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.28	2-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.04	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 145 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 4-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=1063/0-4-0, 10=1627/0-4-0, 8=-18/0-4-0
Max Horz 2=-97(load case 6)
Max Uplift2=-418(load case 5), 10=-575(load case 6), 8=-160(load case 6)
Max Grav 2=1063(load case 1), 10=1627(load case 1), 8=49(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-1859/807, 3-4=-1671/766, 4-5=-1472/719, 5-6=-1330/628, 6-7=-167/711, 7-8=-283/735, 8-9=0/30
BOT CHORD 2-12=-614/1666, 11-12=-286/1067, 10-11=-98/495, 8-10=-623/351
WEBS 3-12=-336/297, 4-12=-256/676, 4-11=-205/548, 5-11=-763/428, 6-11=-363/1043, 6-10=-1582/636, 7-10=-257/251

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 418 lb uplift at joint 2, 575 lb uplift at joint 10 and 160 lb uplift at joint 8.

LOAD CASE(S) Standard

JUNE 07, 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

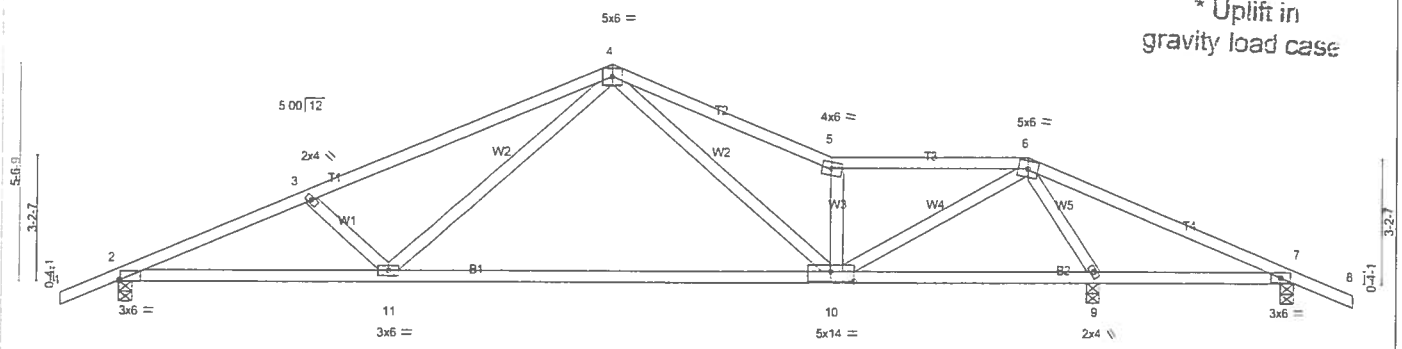
Dwg.#0607061187

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T14	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:55 2006 Page 1

-1-6-0	4-11-0	12-6-0	18-1-8	23-1-8	30-0-0	31-6-0
1-6-0	4-11-0	7-7-0	5-7-8	5-0-0	6-10-8	1-6-0

Scale = 1:56.0



0-1-12	6-10-8	18-1-8	24-10-4	30-0-0
0-1-12	6-8-12	11-3-0	6-8-12	5-1-12

Plate Offsets (X,Y) [2:0-0-6,0-0-2], [10:0-7-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.40	10-11	>744	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.79	Vert(TL)	-0.68	10-11	>437	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(TL)	0.04	9	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 4-1-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-11-7 oc bracing.

REACTIONS (lb/size) 2=1044/0-4-0, 9=1772/0-4-0, 7=-144/0-4-0
Max Horz 2=-97(load case 6)
Max Uplift2=-415(load case 5), 9=-609(load case 6), 7=-200(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2013/868, 3-4=-1791/772, 4-5=-1468/704, 5-6=-1314/595, 6-7=-429/1192, 7-8=0/30
BOT CHORD 2-11=-696/1808, 10-11=-306/1019, 9-10=-105/60, 7-9=-1024/503
WEBS 3-11=-336/315, 4-11=-225/787, 4-10=-177/544, 5-10=-764/428, 6-10=-531/1553, 6-9=-1870/832

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 415 lb uplift at joint 2, 609 lb uplift at joint 9 and 200 lb uplift at joint 7.

LOAD CASE(S) Standard

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

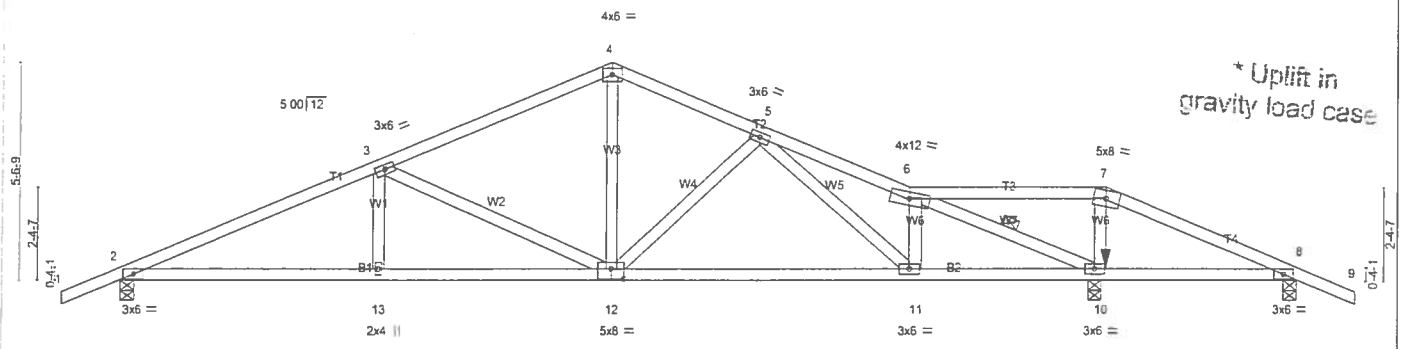
Dwg.#0607061188

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T15	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:56 2006 Page 1

-1-6-0	6-6-14	12-6-0	16-3-12	20-1-8	25-1-8	30-0-0	31-6-0
1-6-0	6-6-14	5-11-2	3-9-12	3-9-12	5-0-0	4-10-8	1-6-0

Scale = 1:56.0



6-6-14	12-6-0	20-1-8	24-10-4	25-1-8	30-0-0
6-6-14	5-11-2	7-7-8	4-8-12	0-3-4	4-10-8

Plate Offsets (X,Y): [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	0.56	Vert(LL)	-0.17	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.59	Vert(TL)	-0.28	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.06	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 145 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 4-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-10

REACTIONS (lb/size) 2=1034/0-4-0, 10=2075/0-4-0, 8=-207/0-4-0
Max Horz 2=-97(load case 5)
Max Uplift2=-410(load case 4), 10=-759(load case 5), 8=-229(load case 8)
Max Grav 2=1034(load case 1), 10=2075(load case 1), 8=8(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-1840/570, 3-4=-1189/401, 4-5=-1156/407, 5-6=-1167/456, 6-7=-263/1098, 7-8=-326/1201, 8-9=0/30
BOT CHORD 2-13=-509/1632, 12-13=-509/1632, 11-12=-260/1136, 10-11=-241/1059, 8-10=-1044/374
WEBS 3-13=0/192, 3-12=-670/320, 4-12=-157/593, 5-12=-215/170, 5-11=-165/86, 6-11=-3/300, 6-10=-2345/693, 7-10=-767/328

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch right exposed; 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
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 410 lb uplift at joint 2, 759 lb uplift at joint 10 and 229 lb uplift at joint 8.
6) Girder carries hip end with 4-10-8 right side setback, 25-1-8 left side setback, and 4-10-8 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 230 lb down and 109 lb up at 25-1-8 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: 1-4=-54, 4-6=-54, 6-7=-54, 7-9=-54, 2-8=-30
Concentrated Loads (lb)
Vert: 10=-230(F)

JUNE 07, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0607061189

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T16	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:57 2006 Page 1

-1-6-0	3-9-14	7-0-0	10-0-0	13-0-0	16-2-2	20-0-0	21-6-0
1-6-0	3-9-14	3-2-2	3-0-0	3-0-0	3-2-2	3-9-14	1-6-0

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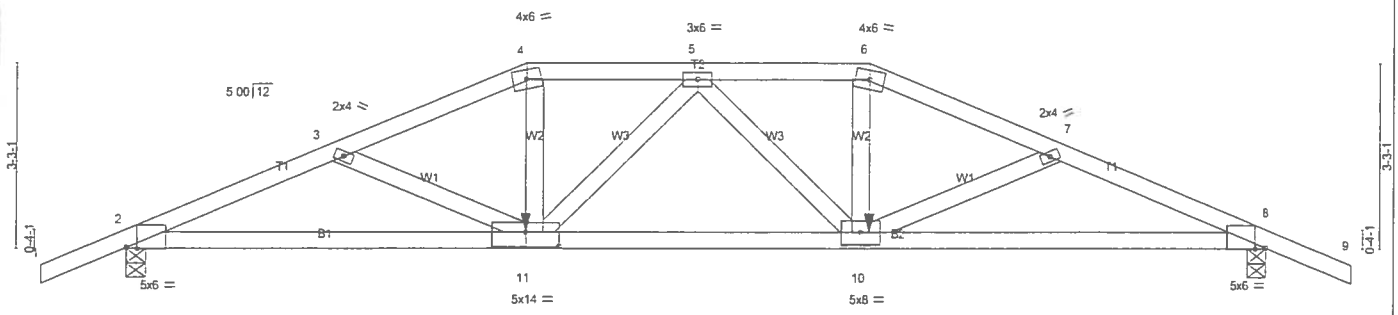

7-0-0	13-0-0	20-0-0
7-0-0	6-0-0	7-0-0

Plate Offsets (X,Y): [2:0-2-5,Edge], [8:0-2-5,Edge], [11:0-7-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.22	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.36	10-11	>654	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.33	Horz(TL)	0.11	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 96 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 3-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-12 oc bracing.

REACTIONS (lb/size) 2=1751/0-4-0, 8=1742/0-4-0
Max Horz 2=-65(load case 5)
Max Uplift2=-743(load case 4), 8=-739(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-3636/1416, 3-4=-3513/1391, 4-5=-3227/1309, 5-6=-3250/1318, 6-7=-3484/1383, 7-8=-3610/1409, 8-9=0/30
BOT CHORD 2-11=-1269/3279, 10-11=-1342/3396, 8-10=-1220/3256
WEBS 3-11=-66/96, 4-11=-345/1037, 5-11=-316/197, 5-10=-288/189, 6-10=-342/1028, 7-10=-70/97

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 743 lb uplift at joint 2 and 739 lb uplift at joint 8.
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 255 lb up at 13-0-0, and 539 lb down and 255 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: 1-4=-54, 4-6=-117(F=-63), 6-9=-54, 2-11=-30, 10-11=-65(F=-35), 8-10=-30
Concentrated Loads (lb)
Vert: 11=-539(F) 10=-539(F)

JUNE 07, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

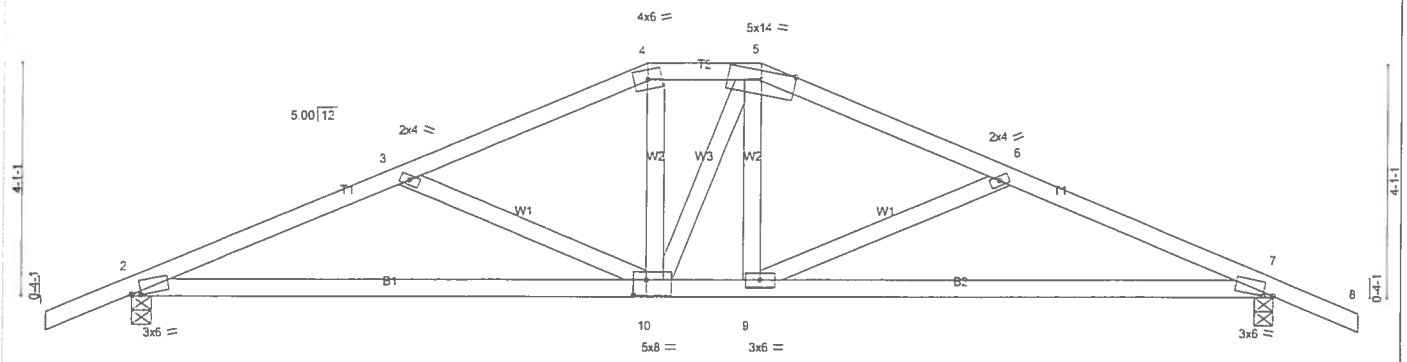
Dwg.#0607061190

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T17	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:58 2006 Page 1

-1-6-0	4-9-14	9-0-0	11-0-0	15-2-2	20-0-0	21-6-0
1-6-0	4-9-14	4-2-2	2-0-0	4-2-2	4-9-14	1-6-0

Scale = 1:38.5



9-0-0	11-0-0	20-0-0
9-0-0	2-0-0	9-0-0

Plate Offsets (X,Y): [2:0-1-14,0-0-7], [7:0-2-2,0-0-7], [10:0-2-12,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.17	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.30	7-9	>793	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 97 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 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-9-10 oc bracing.

REACTIONS (lb/size) 2=916/0-4-0, 7=916/0-4-0
Max Horz 2=76(load case 5)
Max Uplift2=-362(load case 5), 7=-362(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-1546/682, 3-4=-1240/524, 4-5=-1098/523, 5-6=-1229/521, 6-7=-1544/682, 7-8=0/30
BOT CHORD 2-10=-514/1393, 9-10=-281/1099, 7-9=-514/1392
WEBS 3-10=-328/254, 4-10=-71/309, 5-10=-116/111, 5-9=-67/303, 6-9=-336/257

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 2 and 362 lb uplift at joint 7.

LOAD CASE(S) Standard

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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.#0607061191

Job	Truss	Truss Type	Qty	Ply	SETH HEITZMAN
L166925	T18	FINK	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Jun 06 10:04:59 2006 Page 1

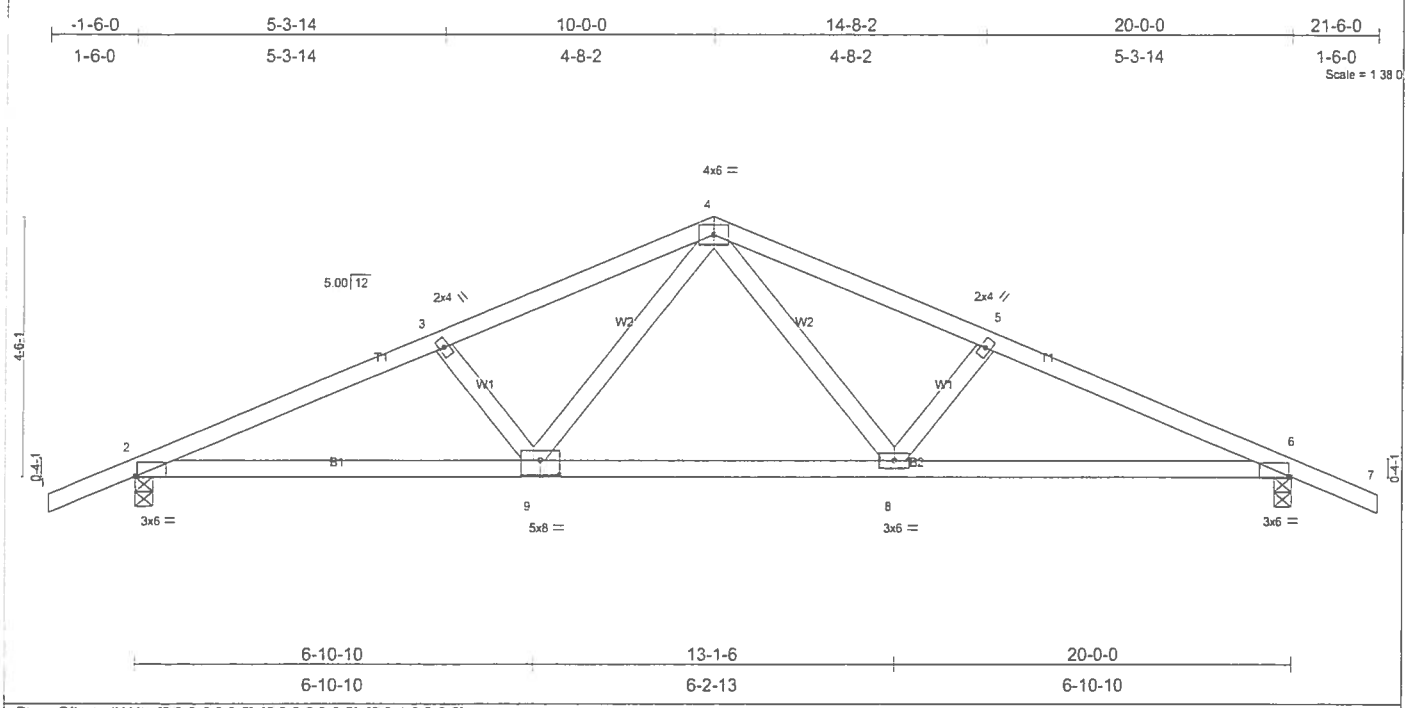

Plate Offsets (X,Y) [2:0-0-6,0-0-2], [6:0-0-6,0-0-2], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.18	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.75	Vert(TL)	-0.28	8-9	>838	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 90 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 4-3-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-9 oc bracing.

REACTIONS (lb/size) 2=1072/0-3-8, 6=1072/0-3-8
Max Horz 2=82(load case 5)
Max Uplift2=-426(load case 5), 6=-426(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-2007/852, 3-4=-1844/817, 4-5=-1844/817, 5-6=-2007/852, 6-7=0/30
BOT CHORD 2-9=-665/1792, 8-9=-384/1242, 6-8=-665/1792
WEBS 3-9=-242/213, 4-9=-257/713, 4-8=-257/713, 5-8=-242/213

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 426 lb uplift at joint 2 and 426 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: 2-9=-30, 8-9=-80(F=-50), 6-8=-30, 1-4=-54, 4-7=-54

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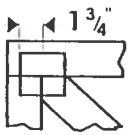
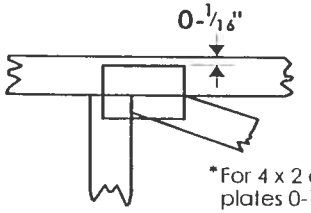
Symbols

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.**

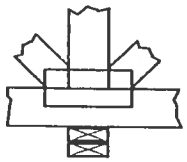
PLATE SIZE

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

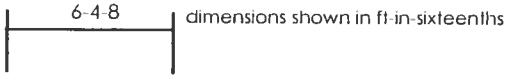


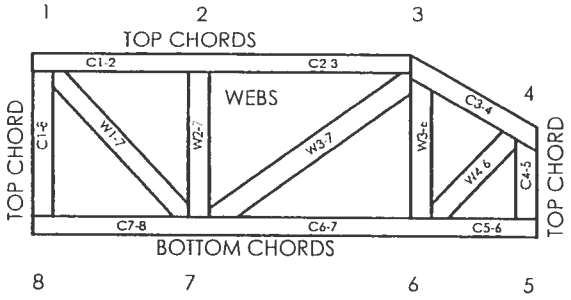
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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





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.

Lot 3 Timberlane

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

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

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

Applicant	Plans Examiner	
☑	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☑	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional
☑	☐	**Elevations including:**
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation
☑	☐	d) Location, size and height above roof of chimneys
☑	☐	e) Location and size of skylights
☑	☐	f) Building height
☑	☐	e) Number of stories

Floor Plan including:

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

Foundation Plan including:

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

Roof System:

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

Wall Sections including:

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

☑ ☐ b) Wood frame wall

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

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

Floor Framing System:

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

☑ ☐ b) Floor joist size and spacing

☑ ☐ c) Girder size and spacing

☑ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

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

☑ ☐ b) Ceiling fans

☑ ☐ c) Smoke detectors

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

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

☑ ☐ f) Appliances and HVAC equipment

HVAC information

☐ ☐ a) Manual J sizing equipment or equivalent computation

☐ ☐ b) Exhaust fans in bathroom

☐ ☐ **Energy Calculations** (dimensions shall match plans)

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

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

I

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

Rendered to:

MI HOME PRODUCTS, INC.

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

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

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

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

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

1 APRIL 2002

II

Architectural Testing

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

Rendered to

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

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

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

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

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

Finish: All aluminum was white.

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

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

Allan N. Reeves
1 APRIL 2002

ALLAN N. REEVES
No. 12384
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Test Specimen Description: (Continued)

Weatherstripping:

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

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

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

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

Hardware:

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

ALLEN N. REEVES
CERTIFICATE NO. 11884
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves
1 APRIL 2002

IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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

Test Results:

The results are tabulated as follows:

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

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

Allen N. Reeves
1 APRIL 2002

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

Test Specimen Description: (Continued)

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

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

Allen N. Reeves
1 APRIL 2002

LEN N. REEVES
CERTIFICATE NO. 18554
STATE OF FLORIDA
PROFESSIONAL ENGINEER

VI

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

For ARCHITECTURAL TESTING, INC:

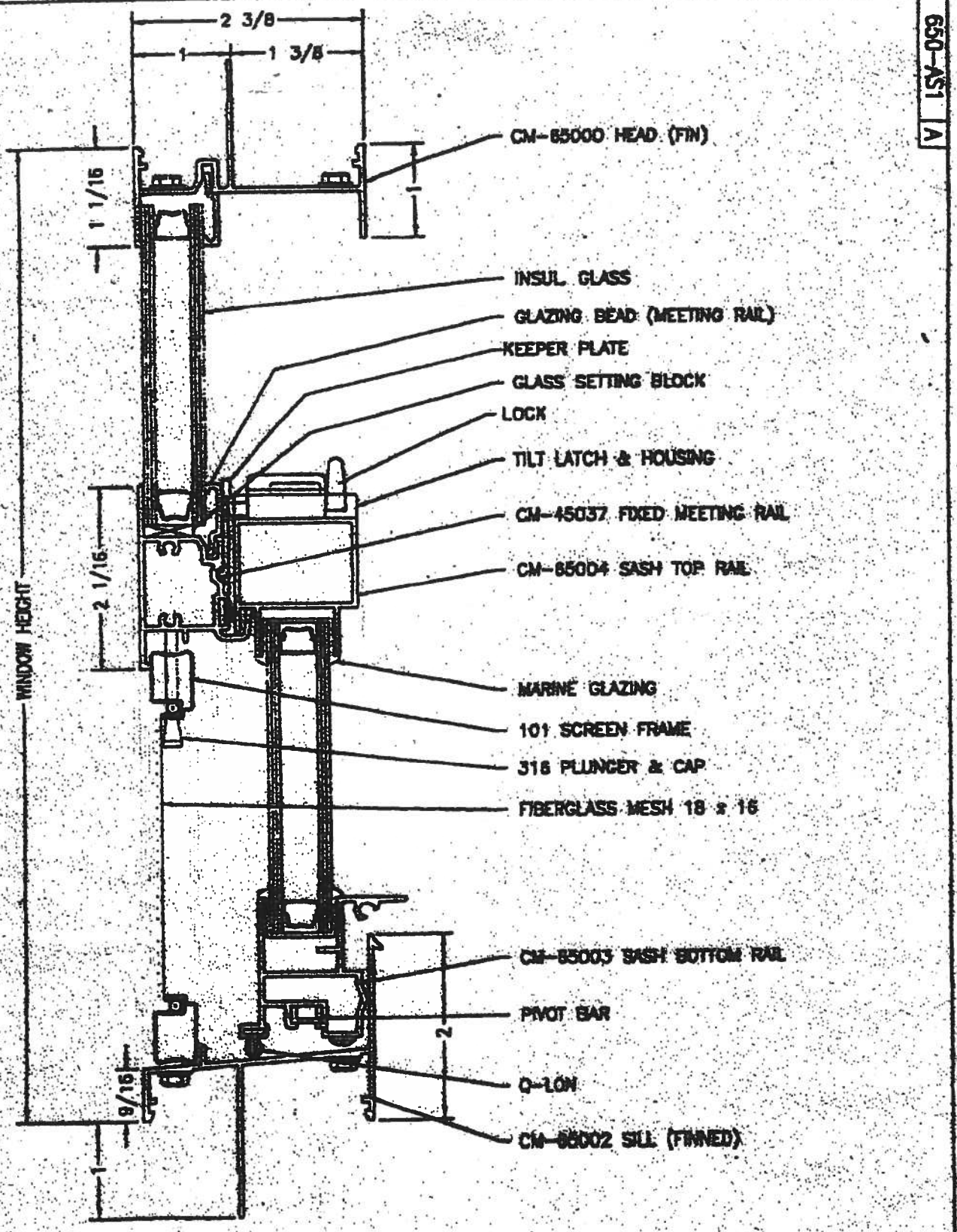
Mark A. Hess
Technician

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

MAH:nlb
01-41134.01

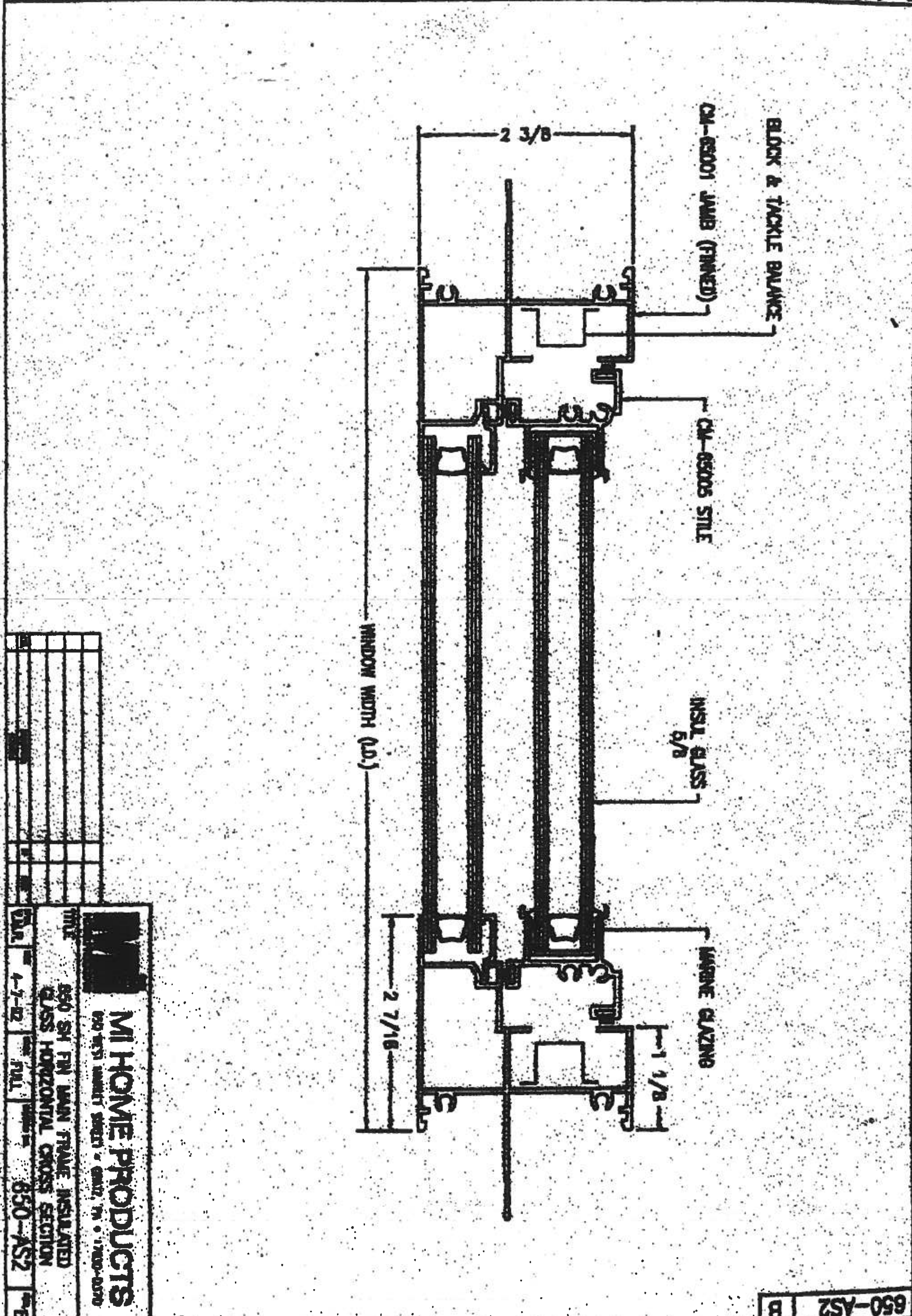
ALLEN N. REEVES
CERTIFICATE
NO. 1[illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

650-AS1 A



MI HOME PRODUCTS
650 WEST MARKET STREET • GRATZ, PA • 17030-0370

TITLE	650 SH FIN MAIN FRAME VERTICAL CROSS SECTION			
DRAWN BY	DATE	SCALE	DRAWING NO.	REV.
Y.M.R.	4-7-92	FULL	650-AS1	A


BLOCK & TACKLE BALANCE
CW-65001 JAMB (FINNED)
CW-65005 STILE
INSUL GLASS 5/8
MARINE GLAZING
2 3/8
WINDOW WIDTH (I.D.)
2 7/16
1 1/8
MI HOME PRODUCTS
TITLE 650 SH FIN MAIN FRAME INSULATED GLASS HORIZONTAL CROSS SECTION
4-7-02
FULL
650-AS2
B
650-AS2
B

TAMKO®
ROOFING PRODUCTS

FEB - 4 RECD

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

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

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

All testing was performed by Florida State certified independent labs.

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

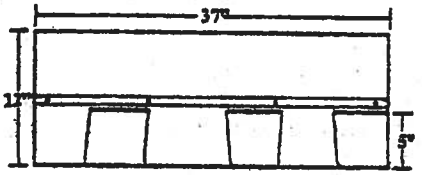
TAMKO Roofing Products, Inc.

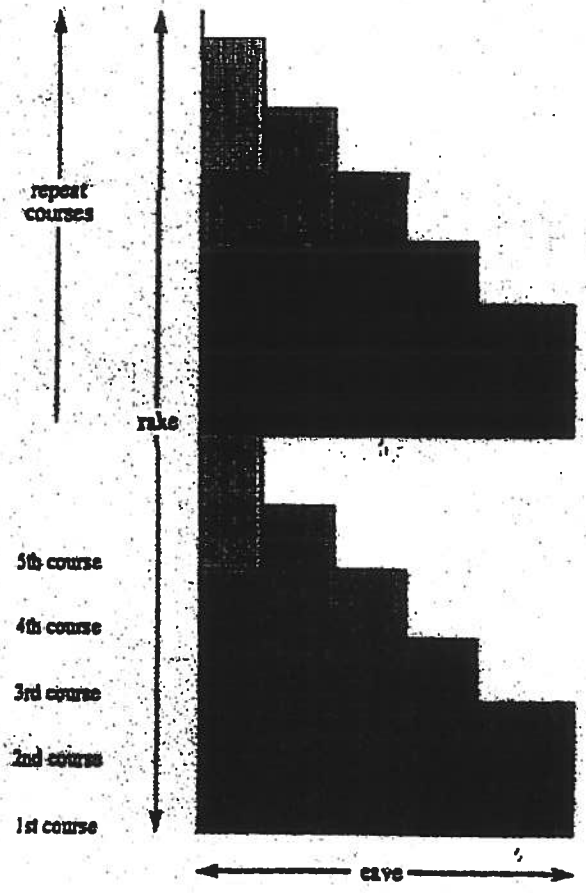
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

TAMKO
ROOFING PRODUCTS

Application Instructions For Heritage® 25 Series Shingles

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





The 4 cuts in the first 10 courses:

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

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

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

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

TAMKO ROOFING PRODUCTS

Application Instructions for

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

THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.
IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

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

1. ROOF DECK

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

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

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

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

2. VENTILATION

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

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

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.
FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

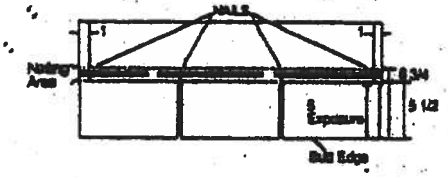
3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

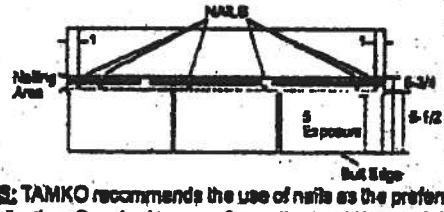
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

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

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



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



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

(Continued)

(CONTINUED from Pg. 2)

TAMKO ROOFING PRODUCTS

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

THREE-TAB ASPHALT SHINGLES

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 5 in. exposure, use 6 fasteners per shingle. See Section 3 for the Nailing Pattern.

5. RE-ROOFING

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

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

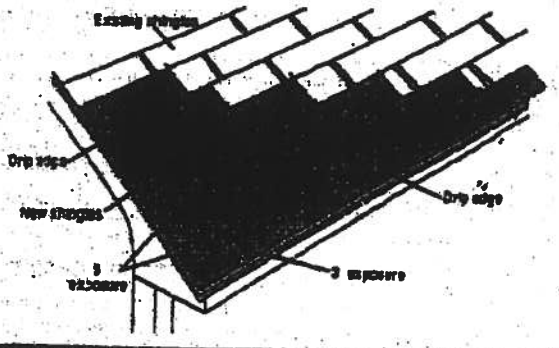
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

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

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

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.



6. VALLEY APPLICATION

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

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

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

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

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

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

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

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

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

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

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

(CONTINUED from Pg. 3)

TAMKO ROOFING PRODUCTS

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

THREE-TAB ASPHALT SHINGLES

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

10. HIP AND RIDGE FASTENING DETAIL

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

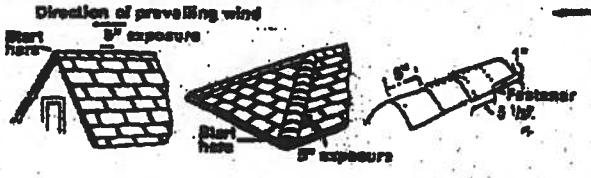
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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

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

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

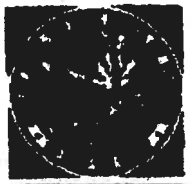
THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



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

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

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



FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Association | Organization Search | Organization Accreditation

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

Organization Type: Product Manufacturer

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

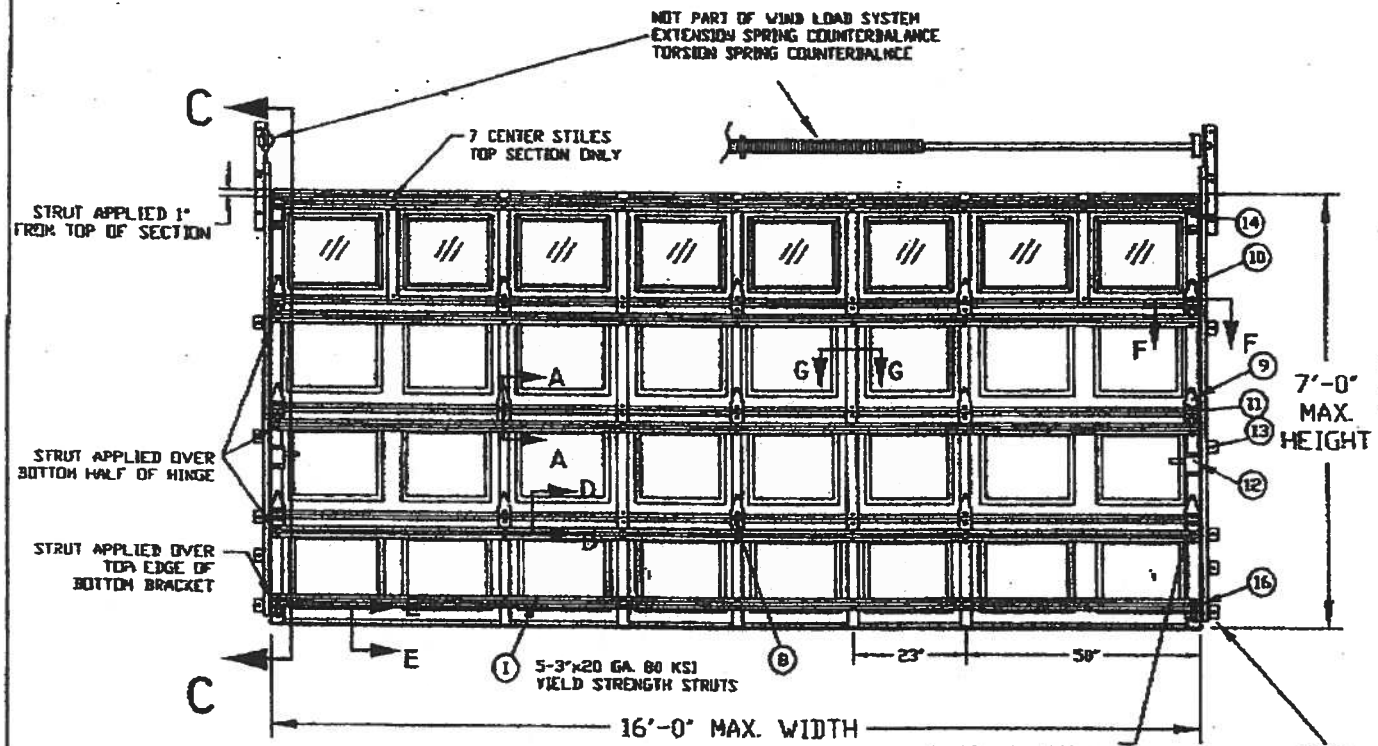
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadco.com			

Displaying 1-1 of 1

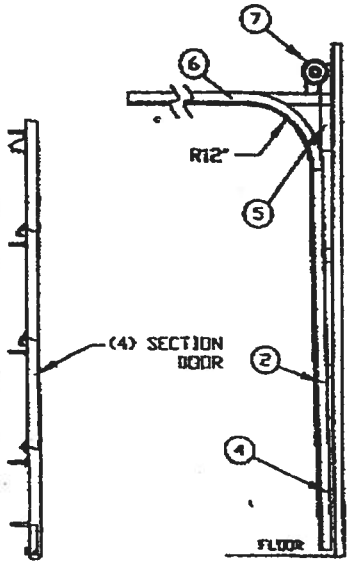
REV.	DATE	BY	DESCRIPTION
A-A	11-10-00	DW	SEE E.C.N. 831

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5½" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION



SEC C-C
VERTICAL TRACK, (16 GA.)

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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024280 STEVEN R. MEYVAN

LISTED SBCI REPORT No. 2202

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

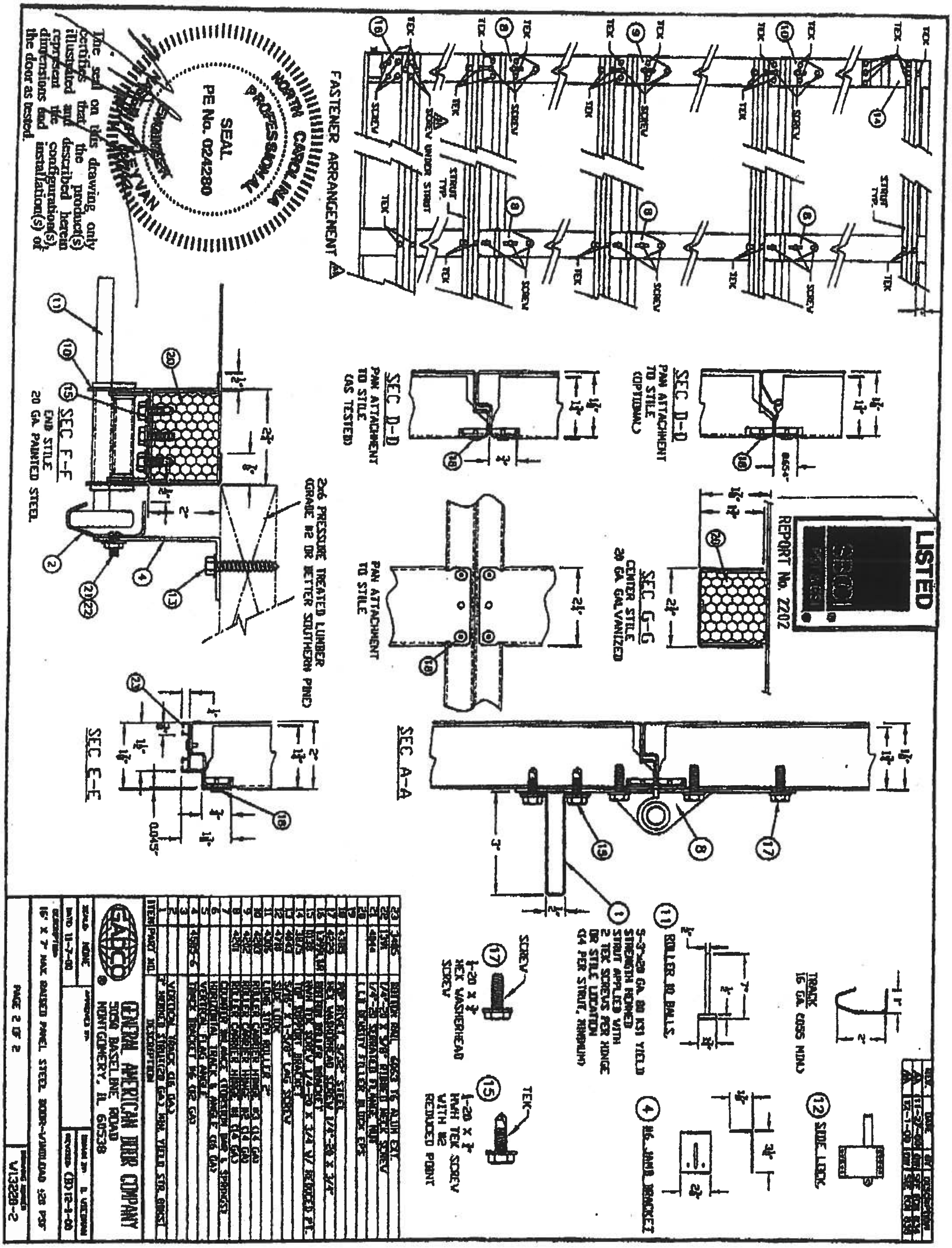
DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

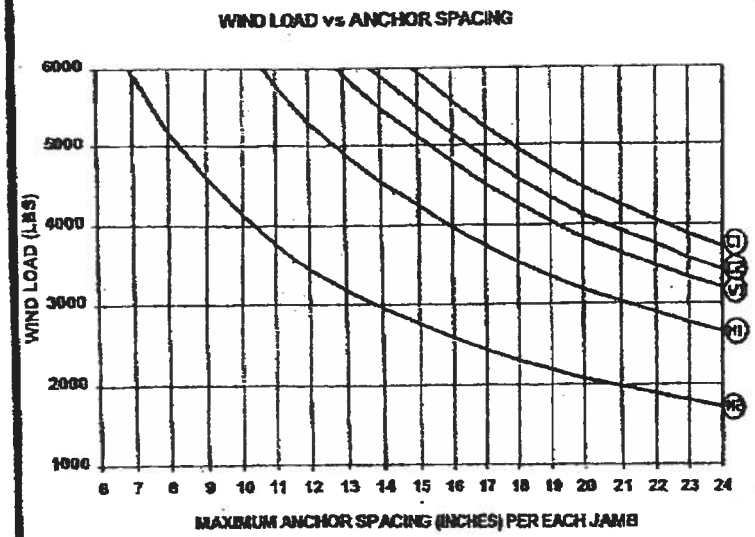
GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN ⚠
SERIES 7524, EXTERIOR STEEL =.024" MIN ⚠
(TESTED) WITH WINDOWS

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

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: 1/25 | APPROVED BY: | DRAWN BY: B VREEMAN
DATE: 10-20-00 | REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF
PART NUMBER: PAGE 1 OF 2 | DRAWING NUMBER: W13220-1


FASTENER ARRANGEMENT
NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280
The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.
LISTED
REPORT No. 2202
SEC D-D
PAN ATTACHMENT TO STILE (AS TESTED)
SEC G-G
CENTER STILE 20 GA. GALVANIZED
PAN ATTACHMENT TO STILE
SEC A-A
SEC F-F
END STILE 20 GA. PAINTED STEEL
2x6 PRESSURE TREATED LUMBER (GRADE #2 OR BETTER SOUTHERN PINE)
SEC E-E
TRACK 16 GA. (USS MIN)
ROLLER 10 BALLS
SIDE LOCK
#6 JAMB BRACKET
1/4-20 x 3/4 HEX WASHERHEAD SCREW
1/4-20 x 3/4 HWH TEK SCREW WITH #2 REDUCED POINT
GENERAL AMERICAN DOOR COMPANY
5130 BASELINE ROAD
MONTGOMERY, IL 60538
PAGE 2 OF 2



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

C2 CONCRETE BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

M1 MASONRY/CMU BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA 1-3/8" EMBEDMENT

M2 MASONRY/CMU BACKUP ITW BUILDEX TAPCON MASONRY ANCHOR 1/4" DIA. 1-3/4" EMBEDMENT

V1 WOOD STUD BACKUP LAG SCREWS 5/16" DIA. 1-1/2" EMBEDMENT

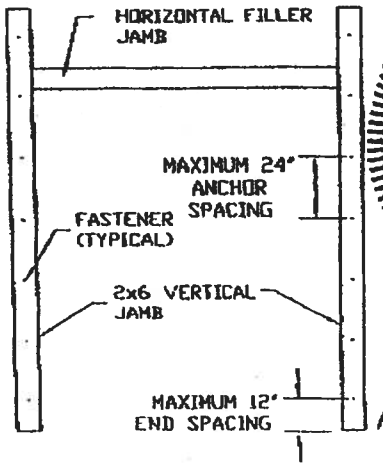
DESIGN (LBS) X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)
LOAD FT^2

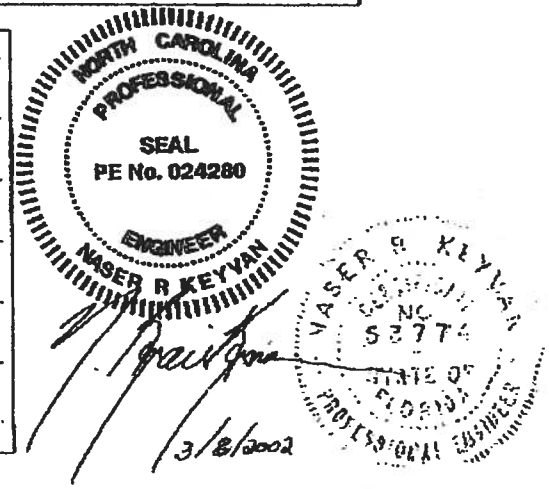
EXAMPLE

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

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

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS





2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

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

NOTES:

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

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

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

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

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

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

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

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

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

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

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

GADCO

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DV
DATE: 8-30-99		REVISED:

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

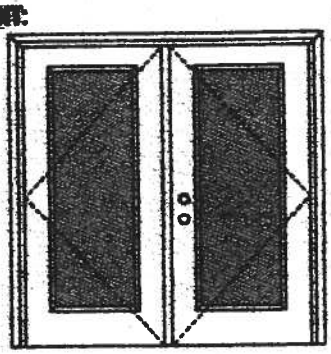
MASTER DRAWING NUMBER: A10560

XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

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

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

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

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

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series


135 Series


682 Series


822 Series

1/2 GLASS:


105 Series*


106, 160 Series*


120 Series*


200 Series*


12 RAL, 22 RAL, 24 RAL Series*


107 Series*


108 Series


304 Series

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

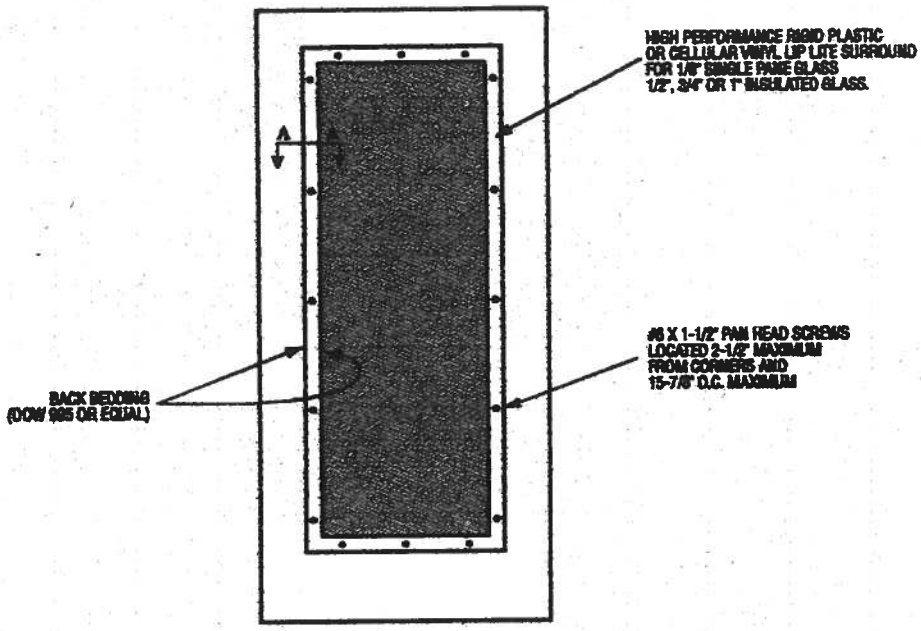
Johnson EntrySystems

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

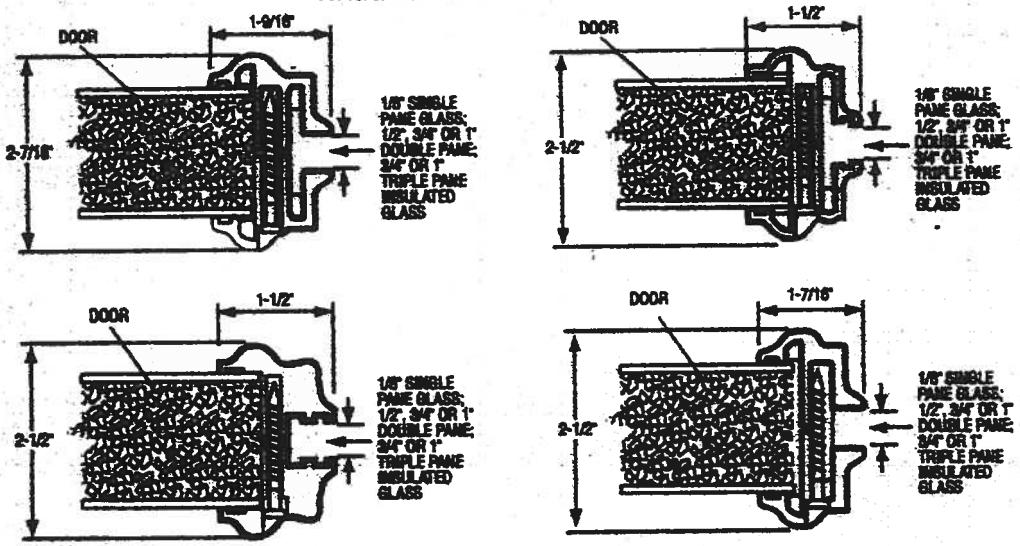
PREMDOR Collection Premium Quality Doors

Exclusively from Masonite
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:


404 Series


416 Series


450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


182 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

Kurt L Balthy

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

Johnson Entry Systems

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

PREMDOR Premium Quality Doors

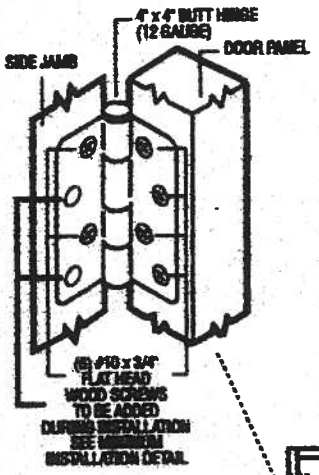
Exclusively from Masonite
Masonite International Corporation

XX
Unit

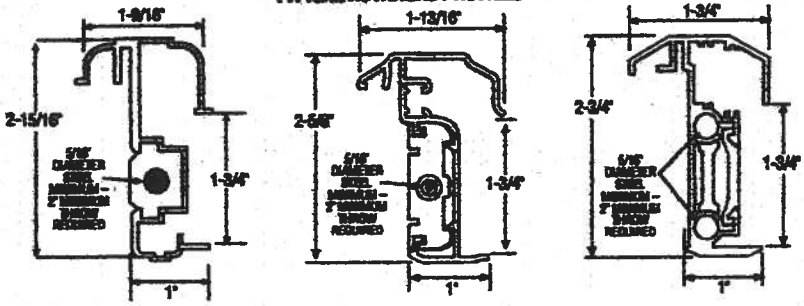
MAD-WI-MAD012-02

OUTSWING UNITS WITH DOUBLE DOOR

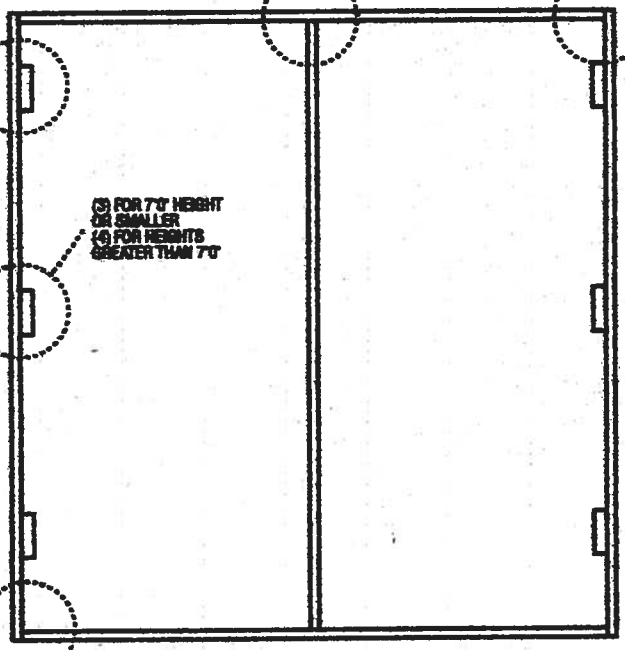
TYPICAL HINGE ATTACHMENT



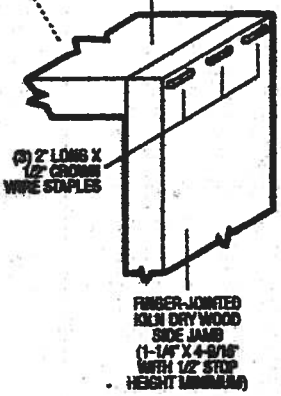
TYPICAL ASTRAGAL PROFILES



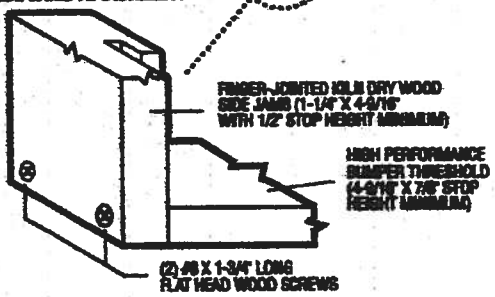
ALUMINUM EXTRUDED ASTRAGAL (0.85" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDERICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



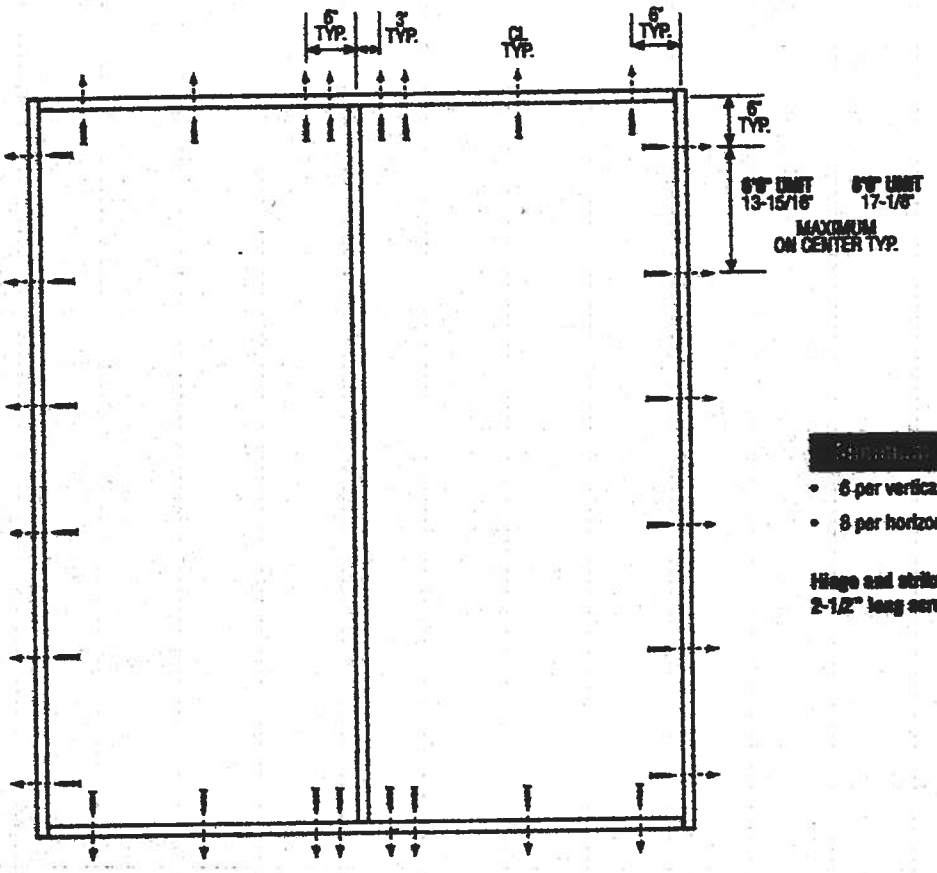
TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 6 per vertical framing member
- 8 per horizontal framing member

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

Latching Hardware:

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

Notes:

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

Residential System Sizing Calculation

Summary

Spec House

Lake City, FL 32024-

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

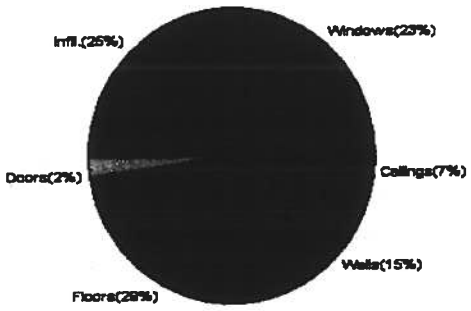
5/19/2006

Location for weather data: Gainesville - User customized: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	99	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	24	F
Total heating load calculation	**24463**	**Btuh**	**Total cooling load calculation**	**33076**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.5	29000	Sensible (SHR = 0.75)	80.3	21750
Heat Pump + Auxiliary(0.0kW)	118.5	29000	Latent	120.9	7250
			Total (Electric Heat Pump)	87.7	29000

WINTER CALCULATIONS

Winter Heating Load (for 1407 sqft)

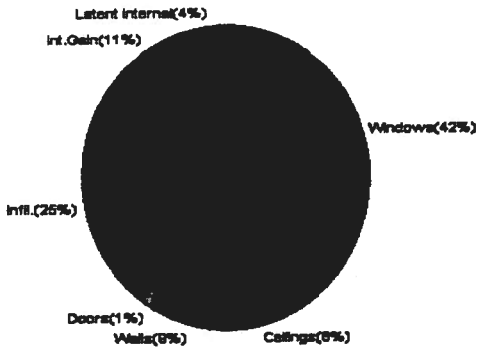
Load component			Load	
Window total	174	sqft	5601	Btuh
Wall total	1084	sqft	3560	Btuh
Door total	38	sqft	492	Btuh
Ceiling total	1407	sqft	1658	Btuh
Floor total	162	sqft	7073	Btuh
Infiltration	150	cfm	6079	Btuh
Duct loss			0	Btuh
Subtotal			**24463**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**24463**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1407 sqft)

Load component			Load	
Window total	174	sqft	13884	Btuh
Wall total	1084	sqft	2853	Btuh
Door total	38	sqft	466	Btuh
Ceiling total	1407	sqft	2644	Btuh
Floor total			0	Btuh
Infiltration	131	cfm	3450	Btuh
Internal gain			3780	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**27077**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			4799	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**5999**	**Btuh**
TOTAL HEAT GAIN			**33076**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: Jon Morris
DATE: 5-19-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Lake City, FL 32024-

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

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

5/19/2006

Components Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
3	2, Clear, Metal, 0.87	W	9.0	32.2	290 Btuh
4	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	E	40.0	32.2	1288 Btuh
	Window Total		174(sqft)		5601 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	942	3.3	3094 Btuh
2	Frame - Wood - Adj(0.09)	13.0	142	3.3	466 Btuh
	Wall Total		1084		3560 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1407	1.2	1658 Btuh
	Ceiling Total		1407		1658Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	162.0 ft(p)	43.7	7073 Btuh
	Floor Total		162		7073 Btuh
			Zone Envelope Subtotal:		18384 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	11256	150.1	6079 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**24463 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	24463 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24463 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

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

Lake City, FL 32024-

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

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

5/19/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
3	2, Clear, Metal, 0.87	W	9.0	32.2	290 Btuh
4	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	E	40.0	32.2	1288 Btuh
	Window Total		174(sqft)		5601 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	942	3.3	3094 Btuh
2	Frame - Wood - Adj(0.09)	13.0	142	3.3	466 Btuh
	Wall Total		1084		3560 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1407	1.2	1658 Btuh
	Ceiling Total		1407		1658Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	162.0 ft(p)	43.7	7073 Btuh
	Floor Total		162		7073 Btuh
			Zone Envelope Subtotal:		18384 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	11256	150.1	6079 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**24463 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	24463 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24463 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32024-

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
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

Lake City, FL 32024-

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 5/19/2006

	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	W	1.5ft	8ft.	45.0	0.0	45.0	35	86	3852 Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	40.0	0.0	40.0	35	86	3424 Btuh
3	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	9.0	0.0	9.0	35	86	770 Btuh
4	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	35	35	701 Btuh
5	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	20.0	0.0	20.0	35	86	1712 Btuh
6	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	40.0	0.0	40.0	35	86	3424 Btuh
	Window Total				174 (sqft)					13884 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	942.0	2.7	2550 Btuh
2	Frame - Wood - Adj	13.0/0.09	142.0	2.1	302 Btuh
	Wall Total		1084 (sqft)		2853 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	18.0	12.3	220 Btuh
2	Insulated - Exterior	20.0	12.3	245 Btuh
	Door Total	38 (sqft)		466 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1407.0	1.9	2644 Btuh
	Ceiling Total		1407 (sqft)		2644 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	162 (ft(p))	0.0	0 Btuh
	Floor Total		162.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		19846 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	11256	131.3	3450 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	2400	3780 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
				Sensible Zone Load	**27077 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32024-

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

5/19/2006

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**27077 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**27077 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**27077 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4799 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5999 Btuh**
	TOTAL GAIN	**33076 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
Lake City, FL 32024-

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 5/19/2006

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	45.0	0.0	45.0	35	86	3852 Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	40.0	0.0	40.0	35	86	3424 Btuh
3	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	9.0	0.0	9.0	35	86	770 Btuh
4	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	35	35	701 Btuh
5	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	20.0	0.0	20.0	35	86	1712 Btuh
6	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	40.0	0.0	40.0	35	86	3424 Btuh
	Window Total				174 (sqft)					13884 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	942.0	2.7	2550 Btuh
2	Frame - Wood - Adj	13.0/0.09	142.0	2.1	302 Btuh
	Wall Total		1084 (sqft)		2853 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	18.0	12.3	220 Btuh
2	Insulated - Exterior	20.0	12.3	245 Btuh
	Door Total	38 (sqft)		466 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1407.0	1.9	2644 Btuh
	Ceiling Total		1407 (sqft)		2644 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	162 (ft(p))	0.0	0 Btuh
	Floor Total		162.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		19846 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	11256	131.3	3450 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		6	X 230 +	2400	3780 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**27077 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32024-

Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

5/19/2006

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**27077 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**27077 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**27077 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	4799 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**5999 Btuh**
	TOTAL GAIN	**33076 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

Lake City, FL 32024-

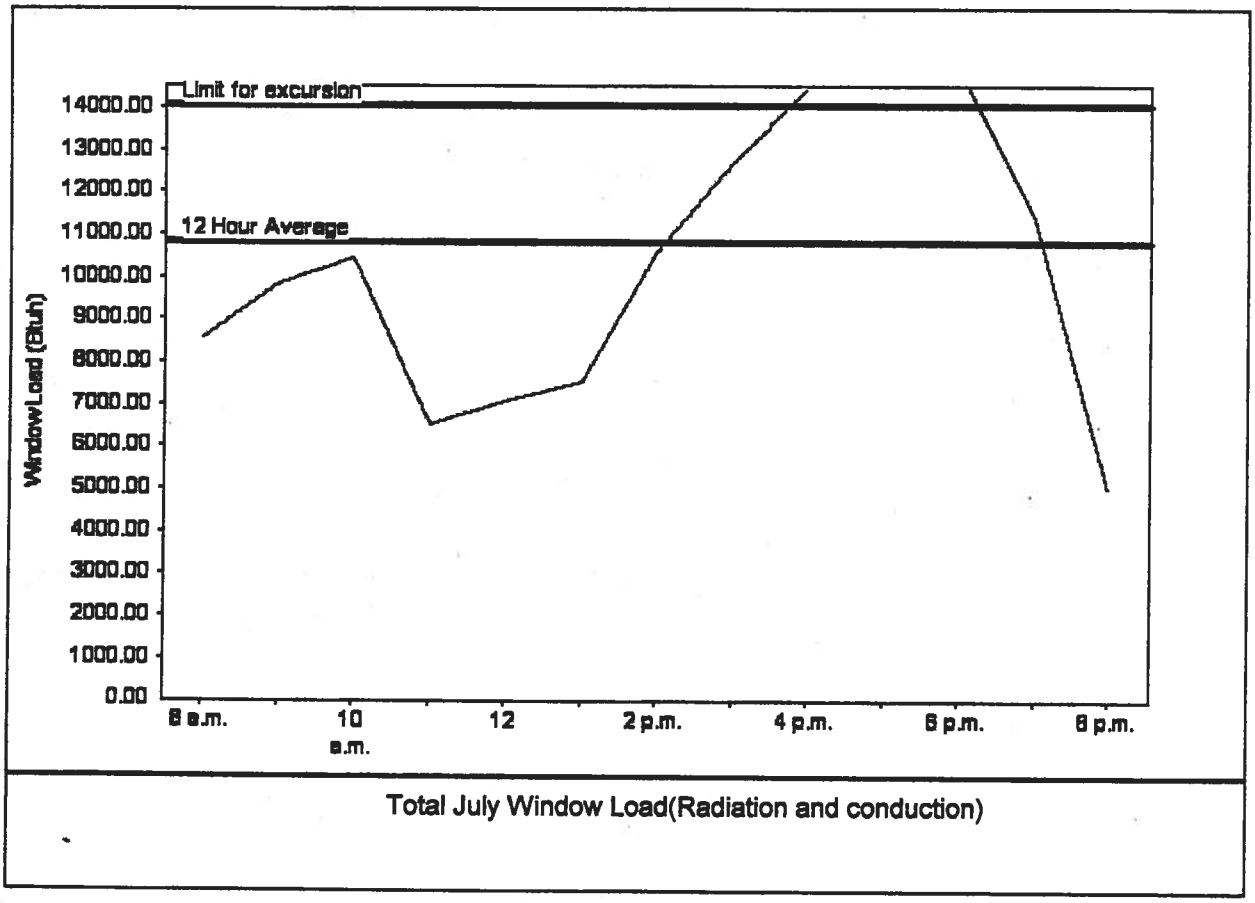
Project Title:
Seth Heitzman Construction - Oliver Model

Code Only
Professional Version
Climate: North

5/19/2006

Summer design temperature	99 F	Average window load for July	10794 Btu
Summer setpoint	75 F	Peak window load for July	15440 Btu
Summer temperature difference	24 F	Excusion limit(130% of Ave.)	14032 Btu
Latitude	29 North	Window excursion (July)	1408 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: _____

25083

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

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

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

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

Section 1: General Information (Treating Company Information)

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

Section 2: Builder Information

Company Name: Seth Heitzman Company Phone No. 867-1295

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 475, one mile on the left past Columbia City
Parcel ID 15-5S-16-03622-053 2 lot on left Timberlane Lot# 3
Type of Construction (More than one box may be checked) ☑ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 1 Inside 1 Type of Fill Dirt

Section 4: Treatment Information

Date(s) of Treatment(s) 11/1/06
Brand Name of Product(s) Used [illegible] TC
EPA Registration No. 53883-92
Approximate Final Mix Solution % [illegible]
Approximate Size of Treatment Area: Sq. ft. 2112 Linear ft. 266 Linear ft. of Masonry Voids
Approximate Total Gallons of Solution Applied 334 Gal
Was treatment completed on exterior? ☐ Yes ☑ No
Service Agreement Available? ☑ Yes ☐ No

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

Attachments (List)

Comments

Name of Applicator(s) TD [illegible] Certification No. (if required by State law) JF104376

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

Authorized Signature [signature] Date 11/7/2006

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

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 15-5S-16-03622-053 **Building permit No.** 000025083

Use Classification SFD,UTILITY **Fire:** 16.74

Permit Holder SETH HEITZMAN **Waste:** 50.25

Owner of Building SETH HEITZMAN **Total:** 66.99

Location: 9115 SW SR 47

Date: 07/02/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)