DATE 08/16/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000024875

APPLICANT MELANIE RODER/LINDA RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER SKYLINE HOMES,INC. PHONE

ADDRESS 204 NW AUSTIN WAY LAKE CITY FL 32055

CONTRACTOR AARON SIMQUES HOMES,INC. PHONE 386.755.0841

LOCATION OF PROPERTY 41-N TO SPARR ROAD,TL TO AUSTIN, TL AND IT'S THE 3RD LOT ON R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 74250.00

HEATED FLOOR AREA 1485.00 TOTAL AREA 2131.00 HEIGHT 18.50 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

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

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

PARCEL ID 22-2S-16-01716-002 SUBDIVISION SUWANNEE VALLEY EST.

LOT 5 BLOCK E PHASE UNIT TOTAL ACRES 0.27

000001189		RB29003130	Linda Roder
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
18"X32'MITERED	06-0091-N	BLK	JTH	
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: 1 FOOT ABOVE ROAD. NOC ON FILE.

Check # or Cash 1001

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

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

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

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

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

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

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

BUILDING PERMIT FEE $ 375.00 CERTIFICATION FEE $ 10.65 SURCHARGE FEE $ 10.65

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 496.30

INSPECTORS OFFICE CH CLERKS OFFICE CH

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

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

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Lot 5 Suwannee Valley Estates

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0601-77 Date Received 1/30 By JN Permit # 11891 / 24875

Application Approved by - Zoning Official BLK Date 03.02.06 Plans Examiner OKSTH Date 2-15-06

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

Comments - Cash 1001 -

Applicants Name Melanie Roder ~ LINDA ZODER Phone 752-2291

Address 387 SW Kemp Ct Lake City, FL 32024

Owners Name Aaron Simque homes SKYLINE HOMES, INC Phone 755-0841

911 Address 204 NW Austin way Lake City, FL 32055

Contractors Name Aaron Simque Homes, Inc. Phone 755-0841

Address P.O. Box 2183 Lake City, FL 32056

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Will Myers / Nick Geisler

Mortgage Lenders Name & Address Columbia County Bank

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

Property ID Number 22-2S-16-01716-005 2 Estimated Cost of Construction 70,000

Subdivision Name Suwannee Valley Estates Lot 5 Block E Unit N Phase

Driving Directions 41 North, Turn left on Sparr. Left on Austin. 3rd lot on right.

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage ~2 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 35' Side 26.6' Side 26.6' Rear 27.6'

Total Building Height 18.5' Number of Stories 1 Heated Floor Area 1485 Roof Pitch 6-12

Porch 238 GARAGE 408 TOTAL 2131

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 RB2900 3130

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

Sworn to (or affirmed) and subscribed before me this 18th day of January 2006.

Personally known Y or Produced Identification

Linda Roder

Notary Signature

Permit Number:

State of: Florida
County of: Columbia

File Number: 06-0237

Inst:200613378 Date:08/15/2006 Time:15:39
D.C.,P.DeWitt Cason,Columbia County B:1092 P:2510

NOTICE OF COMMENCEMENT

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

1. Description of Property:

   Lot 5, Block "E", SUWANNEE VALLEY ESTATES, according to the plat thereof, recorded in Plat Book 3, Page(s) 87, of the Public Records of COLUMBIA County, Florida.

2. General Description of Improvements: Construction of Single Family Home

3. Owner Information:
   a. Name and Address: Skyline Homes, Inc., 120 SW Smith Lane, Lake City, FL 32024

   b. Interest in property: Fee Simple

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

4. Contractor: Aaron Simque Homes, Inc., 484 SW Commerce Drive., Ste 130, Lake City, FL 32055

5. Surety:

6. Lender: Columbia Bank, 173 W. Hillsboro Street, Lake City, FL 32055

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

8. In addition to himself, Owner designates the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes. Linda Evans, Columbia Bank, 173 W. Hillsboro Street, Lake City, FL 32055.

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

Witness:
Matthew D. Repoe
Melinda M. Weaver
(MELINDA M. WEAVER

SKYLINE HOMES, INC., a Florida corporation
By: President
Joel R. Phinney, President

Sworn to and subscribed before me August 15, 2006 by Joel R. Phinney, President of Skyline Homes, Inc., a Florida corporation who is personally known to me or who did provide DL as identification.

Notary Public
My Commission Expires:

Matthew Repoe
My Commission DD150709
Expires September 17, 2009

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By: Deputy Clerk
Date 08-15-2006

CLERK CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

Prepared by & Return to:
Matt Rocco
Sierra Title, LLC
619 SW Baya Drive, Suite 102
Lake City, Florida 32025

File Number: 06-0237

Inst:200618947 Date:08/09/2006 Time:15:06
Doc Stamp-Deed : 140.00
DC,P.DeWitt Cason,Columbia County B:1092 P:805

General Warranty Deed

Made this August 8, 2006 A.D. By **K&S Housing ,LLC, a Florida limited liability company,** having its principal place of business at: 484 SW Commerce Drive, Suite 130A, Lake City, FL 32055, hereinafter called the grantor, to **Skyline Homes, Inc., a Florida corporation**, whose post office address is: 120 SW Smith Lane, Lake City, FL 32024, 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 5, Block "E", SUWANNEE VALLEY ESTATES, according to the plat thereof, recorded in Plat Book 3, Page(s) 87, of the Public Records of COLUMBIA County, Florida.

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:

Witness Printed Name Matthew D. Rocco

Melinda M. Weaver

Witness Printed Name Melinda M. Weaver

K&S Housing, LLC, a Florida Limited Liability Company

By: _____(Seal)
Aaron D. Simque, Managing Member
Address: 484 SW Commerce Dr., #130A, Lake City, FL 32055

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 8th day of August, 2006, by Aaron D. Simque, Managing Member of K&S Housing, LLC, a Florida Limited Liability Company who is/are personally known to me or who has produced Drivers License as identification.

Matthew Rocco
My Commission DD150700
Expires September 17, 2009

Notary Public
Print Name:_____

My Commission Expires:_____

DEED Individual Warranty Deed - Legal on Face
Closers' Choice

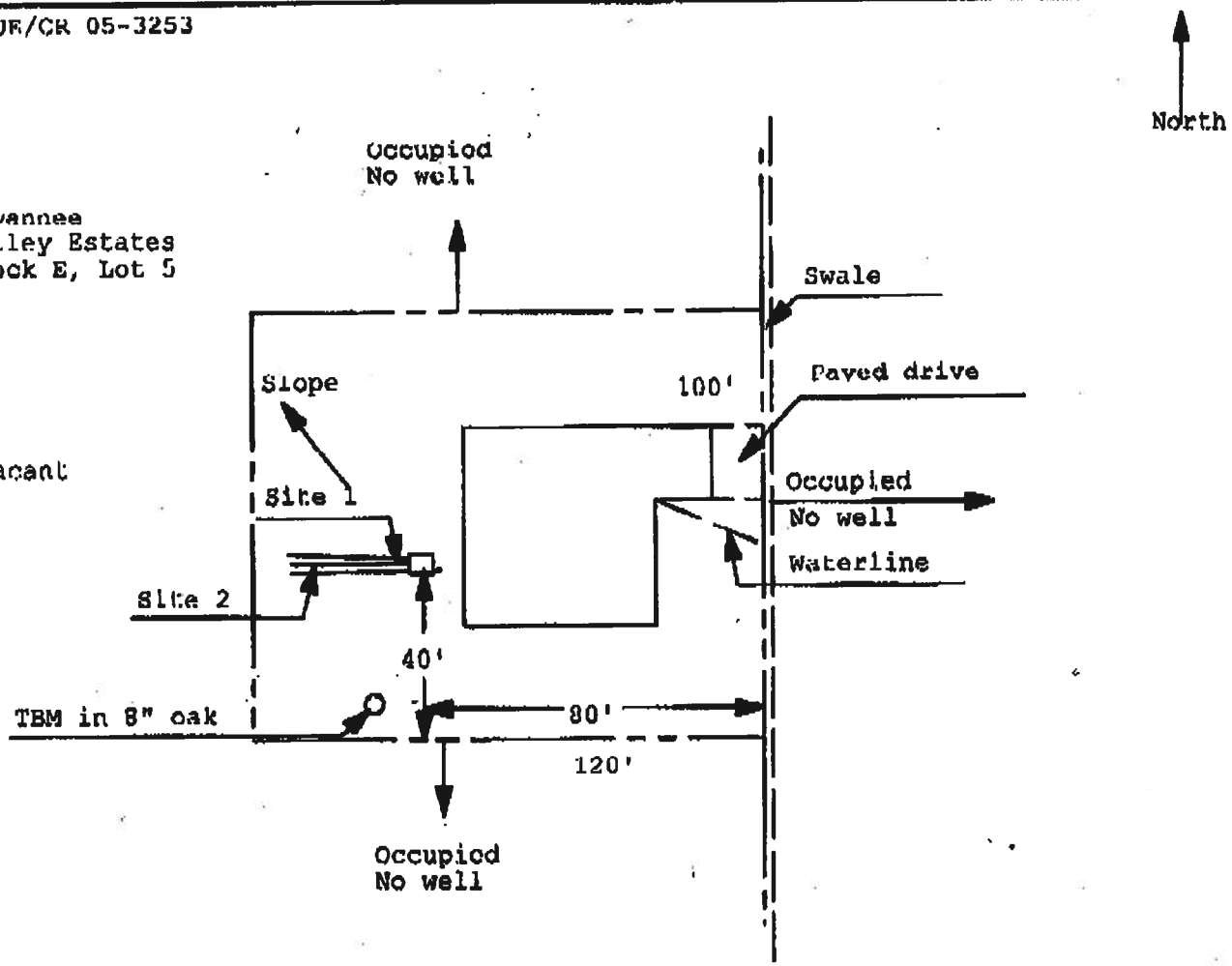
```
@ CAM112M01     S  CamaUSA Appraisal System                    Columbia County
 8/16/2006  9:48  Legal Description Maintenance      38400  Land  001  *
Year T Property                          Sel                  AG    000
2006 R 22-2S-16-01716-002 ..... ... ..                        Bldg  000
        SUWANNEE VALLEY EST                                   Xfea  000
       K & S HOUSING LLC                          38400  TOTAL      B

  1  LOT 2,, BLOCK A & LOTS 1,,5 & 9 ,  BLOCK E,, SUWANNEE VALLEY .....   2
  3  ESTATES S/D. ORB 517-169,. . . . .  ORB 1040-1907,, WD 1065-2163. . .   4
  5  ..................................  ..................................   6
  7  ..................................  ..................................   8
  9  ..................................  ..................................  10
 11  ..................................  ..................................  12
 13  ..................................  ..................................  14
 15  ..................................  ..................................  16
 17  ..................................  ..................................  18
 19  ..................................  ..................................  20
 21  ..................................  ..................................  22
 23  ..................................  ..................................  24
 25  ..................................  ..................................  26
 27  ..................................  ..................................  28
                                                  Mnt 12/15/2005 KYLIE
F1=Task  F3=Exit  F4=Prompt  F10=GoTo  PgUp/PgDn  F24=More
```

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

Permit Application Number: 06-0091N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SIMQUE/CR 05-3253



1 inch = 40 feet

Site Plan Submitted By Paul Lloyd Date 2/1/06

Plan Approved ✓ Not Approved ____ Date 2-2-06

By [illegible] Columbia CPHU

Notes: ____

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:	**The Arlington Model - lot 5**	Builder:	**Aaron Simque Homes**
Address:	**Lot: 5, Sub: Suwannee Valley, Plat:**	Permitting Office:	Columbia
City, State:	**Lake City, FL 32025-**	Permit Number:	24875
Owner:	**Aaron Simque Homes**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 30.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No		
6. Conditioned floor area (ft²)	1485 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT)	7a. (Dble Default) 163.3 ft²	a. Electric Heat Pump	Cap: 30.0 kBtu/hr
b. SHGC:			HSPF: 6.80
(or Clear or Tint DEFAULT)	7b. (Clear) 163.3 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 175.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 50.0 gallons
a. Frame, Wood, Exterior	R=13.0, 1016.7 ft²		EF: 0.90
b. Frame, Wood, Adjacent	R=13.0, 181.4 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar	
10. Ceiling types		DHP-Dedicated heat pump)	
a. Under Attic	R=30.0, 1485.0 ft²	15. HVAC credits	
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
11. Ducts		PT-Programmable Thermostat,	
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 35.0 ft	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	

Glass/Floor Area: 0.11 Total as-built points: 23075 Total base points: 23274 **PASS**

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

PREPARED BY: Will Myers

DATE: 12-07-05

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

OWNER/AGENT: Aaron Nale

DATE: 1-05-06

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 5, Sub: Suwannee Valley, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1485.0	20.04	5356.7	Double, Clear	W	13.5	8.0	40.0	38.52	0.43	657.8	
				Double, Clear	W	1.5	8.0	60.0	38.52	0.96	2214.6	
				Double, Clear	W	1.5	8.0	4.0	38.52	0.96	147.6	
				Double, Clear	E	9.5	8.0	13.3	42.06	0.47	263.5	
				Double, Clear	E	5.5	8.0	15.0	42.06	0.62	391.2	
				Double, Clear	E	1.5	8.0	15.0	42.06	0.96	604.2	
				Double, Clear	S	1.5	8.0	4.0	35.87	0.92	132.5	
				Double, Clear	S	1.5	8.0	12.0	35.87	0.92	397.4	
				As-Built Total:				**163.3**			**4808.7**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =	Points		
Adjacent	181.4	0.70	127.0	Frame, Wood, Exterior			13.0	1016.7	1.50	1525.1		
Exterior	1016.7	1.70	1728.4	Frame, Wood, Adjacent			13.0	181.4	0.60	108.8		
Base Total:	**1198.1**		**1855.4**	**As-Built Total:**				**1198.1**		**1633.9**		
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =	Points		
Adjacent	18.6	1.60	29.7	Exterior Insulated				20.0	4.10	82.0		
Exterior	20.0	4.10	82.0	Adjacent Insulated				18.6	1.60	29.7		
Base Total:	**38.6**		**111.7**	**As-Built Total:**				**38.6**		**111.7**		
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =	Points		
Under Attic	1485.0	1.73	2569.1	Under Attic			30.0	1485.0	1.73 X 1.00	2569.1		
Base Total:	**1485.0**		**2569.1**	**As-Built Total:**				**1485.0**		**2569.1**		
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =	Points		
Slab	175.0(p)	-37.0	-6475.0	Slab-On-Grade Edge Insulation			0.0	175.0(p	-41.20	-7210.0		
Raised	0.0	0.00	0.0									
Base Total:			**-6475.0**	**As-Built Total:**				**175.0**		**-7210.0**		
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =	Points		
	1485.0	10.21	15161.8					1485.0	10.21	15161.8		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 5, Sub: Suwannee Valley, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 18579.7			**Summer As-Built Points:**					**17075.2**
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 30000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)					
			17075	1.00	(1.09 x 1.147 x 1.00)	0.310	1.000	6623.7
18579.7	**0.4266**	**7926.1**	**17075.2**	**1.00**	**1.250**	**0.310**	**1.000**	**6623.7**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 5, Sub: Suwannee Valley, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	1485.0	12.74	3405.4	Double, Clear	W	13.5	8.0	40.0	20.73	1.21	1006.9
				Double, Clear	W	1.5	8.0	60.0	20.73	1.01	1257.5
				Double, Clear	W	1.5	8.0	4.0	20.73	1.01	83.8
				Double, Clear	E	9.5	8.0	13.3	18.79	1.34	334.2
				Double, Clear	E	5.5	8.0	15.0	18.79	1.19	335.3
				Double, Clear	E	1.5	8.0	15.0	18.79	1.02	287.5
				Double, Clear	S	1.5	8.0	4.0	13.30	1.04	55.4
				Double, Clear	S	1.5	8.0	12.0	13.30	1.04	166.1
				As-Built Total:				**163.3**			**3526.7**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	181.4	3.60	653.0	Frame, Wood, Exterior	13.0	1016.7	3.40	3456.8
Exterior	1016.7	3.70	3761.8	Frame, Wood, Adjacent	13.0	181.4	3.30	598.6
Base Total:	**1198.1**		**4414.8**	**As-Built Total:**		**1198.1**		**4055.4**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	18.6	8.00	148.5	Exterior Insulated	20.0	8.40	168.0
Exterior	20.0	8.40	168.0	Adjacent Insulated	18.6	8.00	148.5
Base Total:	**38.6**		**316.5**	**As-Built Total:**	**38.6**		**316.5**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	1485.0	2.05	3044.3	Under Attic	30.0	1485.0	2.05 X	1.00	3044.3
Base Total:	**1485.0**		**3044.3**	**As-Built Total:**		**1485.0**			**3044.3**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	175.0(p)	8.9	1557.5	Slab-On-Grade Edge Insulation	0.0	175.0(p	18.80	3290.0
Raised	0.0	0.00	0.0					
Base Total:			**1557.5**	**As-Built Total:**		**175.0**		**3290.0**

INFILTRATION	Area X	BWPM	= Points	Area X	WPM	= Points
	1485.0	-0.59	-876.1	1485.0	-0.59	-876.1

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 5, Sub: Suwannee Valley, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**11862.3**	**Winter As-Built Points:**					**13356.7**
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 30000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			13356.7	1.000	(1.069 x 1.169 x 1.00)	0.501	1.000	8370.2
11862.3	**0.6274**	**7442.4**	**13356.7**	**1.00**	**1.250**	**0.501**	**1.000**	**8370.2**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 5, Sub: Suwannee Valley, Plat: , Lake City, FL, 32025-** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points		Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	
7926	**7442**	**7905**	**23274**		**6624**	**8370**	**8081**	**23075**	

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 5, Sub: Suwannee Valley, Plat: , Lake City, FL, 32025-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.3

The higher the score, the more efficient the home.

Aaron Simque Homes, Lot: 5, Sub: Suwannee Valley, Plat: , Lake City, FL, 32025-

1.	New construction or existing	New	__	12.	Cooling systems	
2.	Single family or multi-family	Single family	__		a. Central Unit	Cap: 30.0 kBtu/hr __
3.	Number of units, if multi-family	1	__			SEER: 11.00 __
4.	Number of Bedrooms	3	__		b. N/A	__
5.	Is this a worst case?	No	__			__
6.	Conditioned floor area (ft²)	1485 ft²	__		c. N/A	__
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)					__
	a. U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT)	7a. (Dble Default) 163.3 ft²	__		a. Electric Heat Pump	Cap: 30.0 kBtu/hr __
	b. SHGC:					HSPF: 6.80 __
	(or Clear or Tint DEFAULT)	7b. (Clear) 163.3 ft²	__		b. N/A	__
8.	Floor types					__
	a. Slab-On-Grade Edge Insulation	R=0.0, 175.0(p) ft	__		c. N/A	__
	b. N/A		__			__
	c. N/A		__	14.	Hot water systems	
9.	Wall types				a. Electric Resistance	Cap: 50.0 gallons __
	a. Frame, Wood, Exterior	R=13.0, 1016.7 ft²	__			EF: 0.90 __
	b. Frame, Wood, Adjacent	R=13.0, 181.4 ft²	__		b. N/A	__
	c. N/A		__			__
	d. N/A		__		c. Conservation credits	__
	e. N/A		__		(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
	a. Under Attic	R=30.0, 1485.0 ft²	__	15.	HVAC credits	__
	b. N/A		__		(CF-Ceiling fan, CV-Cross ventilation,	
	c. N/A		__		HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 35.0 ft	__		MZ-C-Multizone cooling,	
	b. N/A		__		MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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.

Inst:200502902d Date:11/22/2005 Time:08:27
Doc Stamp-Deed : 1820.00
DC,P.DeWitt Cason,Columbia County B:1065 P:2163

PREPARED BY AND RETURN TO:

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

Property Appraiser's
Identification Number:
R01719-001, R01718-009, R01717-003,
R01716-002, R01720-001

TM File No: 05-878

WARRANTY DEED

This Warranty Deed, made this 18th day of November, 2005, BETWEEN PC LAND AND CATTLE, LLC, A Florida Limited Liability Company, whose post office address is P.O. Box 2965, Lake City, Florida 32056, grantor*, and K&S HOUSING, LLC, A Florida Limited Liability Company, whose post office address is P.O. Box 2183, Lake City, FL 32056, grantee*.

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

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

Lot 3, Block B, Lots 9, 10, 19 and 20, Block C, Lots 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10, Block D, Lots 2, 3, 6, 7, 10, 11, and 15, Block E, Suwannee Valley Estates, a subdivision according to the plat thereof as recorded in Plat Book 3, Page 87, public records, Columbia County, Florida.

AND

Lot 14, Block E, Suwannee Valley Estates, a subdivision according to the plat thereof as recorded in Plat Book 3, Page 87, public records, Columbia County, Florida., less and except the following described parcel:

That portion of Lot 14 lying East of a line running Northeast from the Southwest corner of Lot 14 to the Southwest corner of Lot 12 in Block E of Suwannee Valley Estates, a subdivision according to the plat thereof recorded in Plat Book 3, Page 87, public records, Columbia County, Florida.

TOGETHER WITH:

Lot 2, Block A, Suwannee Valley Estates, a subdivision according to the plat thereof as recorded in Plat Book 3, Page 87, public records, Columbia County, Florida.

AND

Lot 1, 5 and 9, Block E, Suwannee Valley Estates, a subdivision according to the plat thereof as recorded in

Doc Stamp-Deed : 1820.00

DC,P.DeWitt Cason,Columbia County B:1065 P:2164

Plat Book 3, Page 87, public records, Columbia County, Florida.

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

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

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

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

Signed, sealed and delivered in our presence:

(Signature of First Witness)

Terry McDavid

(Typed Name of First Witness)

(Signature of Second Witness)

Karen M. Wright

(Typed Name of Second Witness)

PC LAND AND CATTLE, LLC

By: _____ (SEAL)
Leanne G. Philpot, Managing Member

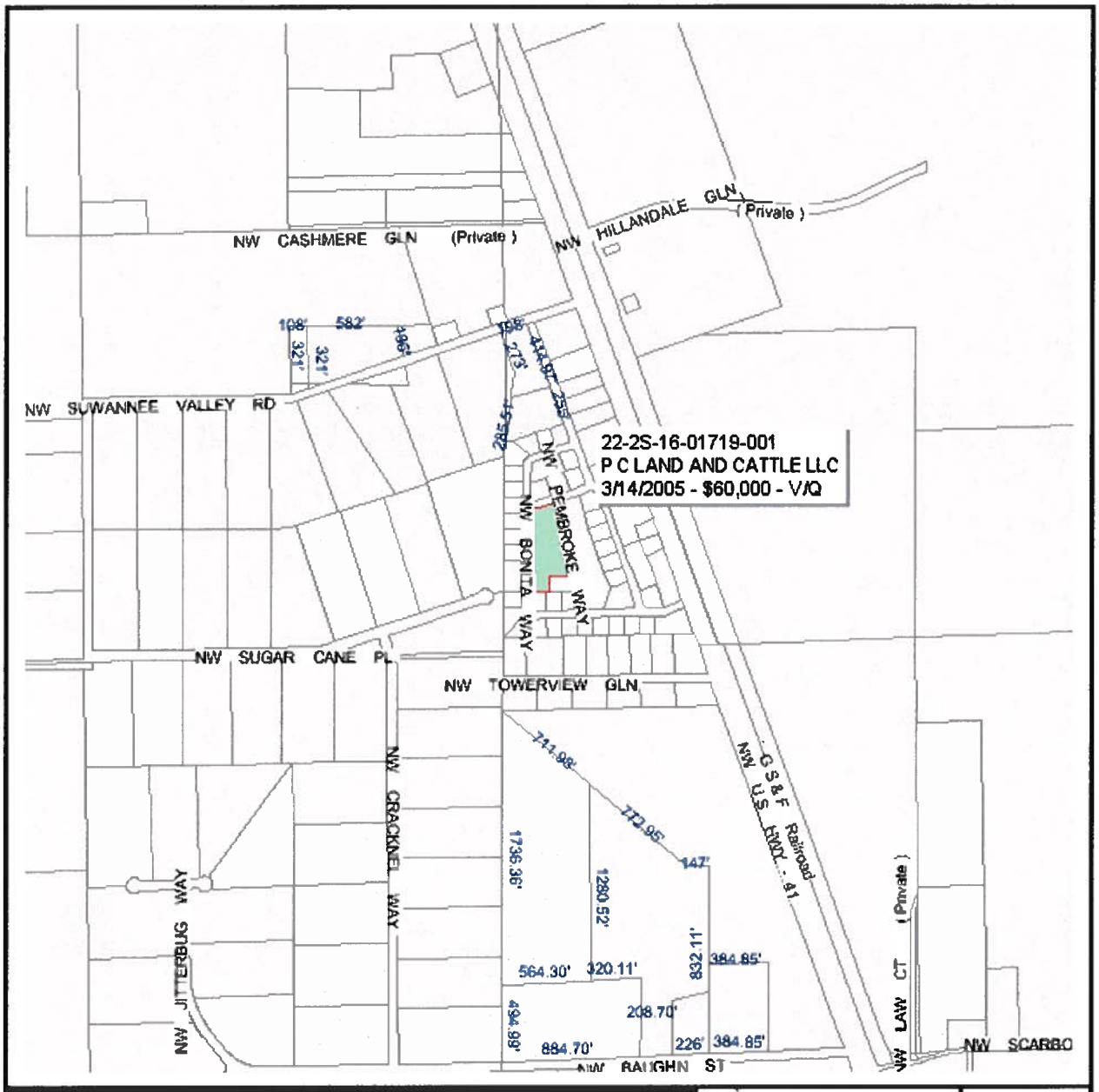
STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 18th day of November, 2005, by Leanne G. Philpot, Managing Member of PC Land and Cattle, LLC, a Florida Limited Liability Company, on behalf of said company, who is/are personally known to me or who has/have produced _____ as identification and who did not take an oath.

_____
Notary Public
Printed, typed, or stamped name:

My Commission Expires:

TERRY MCDAVID
MY COMMISSION EXPIRES
January 16, 2008
DD 078305
Bonded thru
Notary Public Underwriters
NOTARY PUBLIC STATE OF FLORIDA



Columbia County Property Appraiser

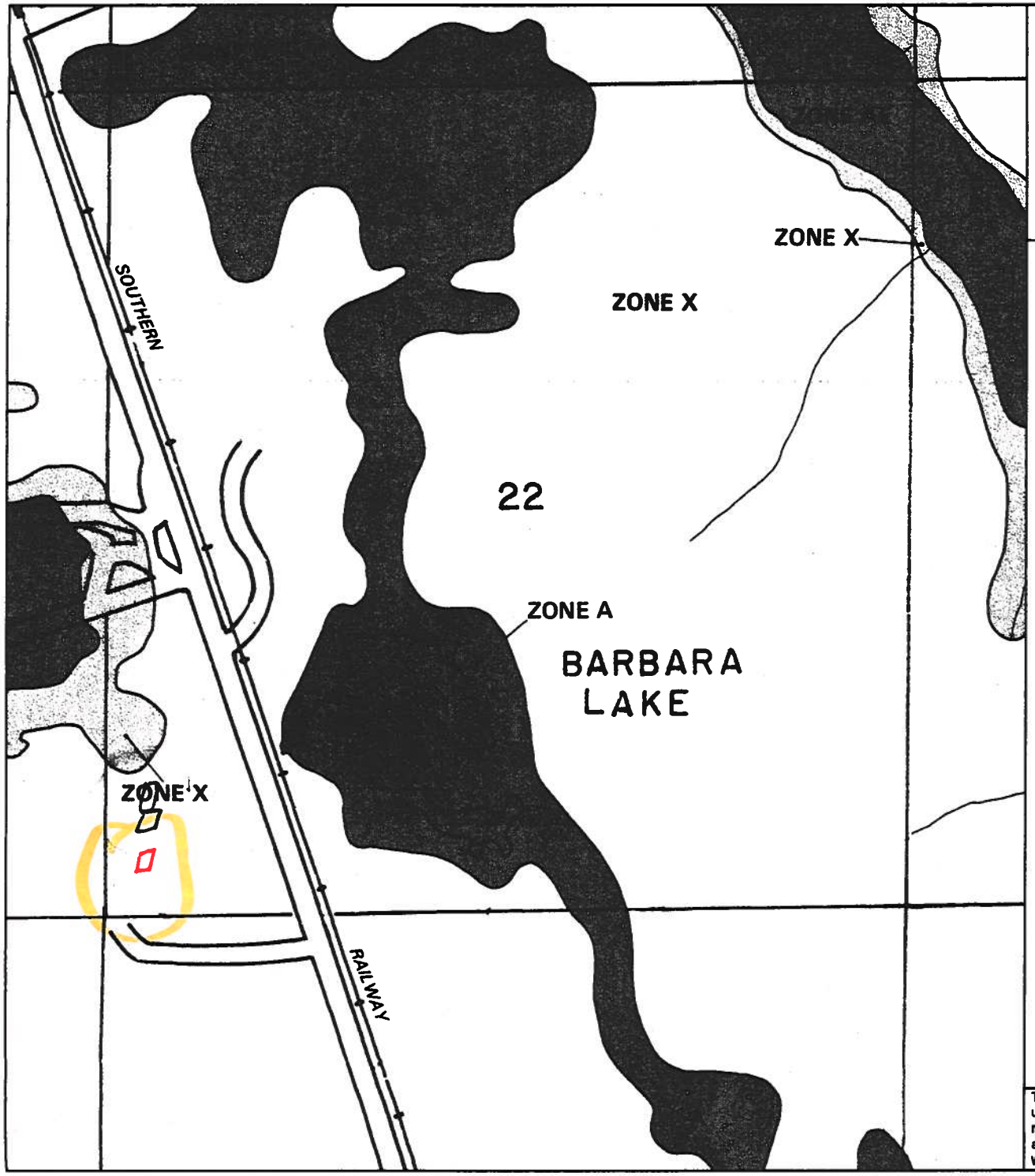
J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 22-2S-16-01719-001 - VACANT (000000)

LOTS 1 THRU 10, BLOCK D SUWANNEE VALLEY ESTATES S/D. ORB 517-169, 1040-1902,

Name:	K & S HOUSING LLC	LandVal	$50,000.00
Site:	SUWANNEE VALLEY EST	BldgVal	$0.00
Mail:	P O BOX 2183	ApprVal	$50,000.00
	LAKE CITY, FL 32056	JustVal	$50,000.00
Sales	11/18/2005$260,000.00V / Q	Assd	$50,000.00
Info	3/14/2005 $60,000.00V / Q	Exmpt	$0.00
		Taxable	$50,000.00

NOT Right - Legal -



N

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

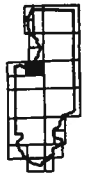
FIRM

FLOOD INSURANCE RATE MAP

COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 110 OF 290

PANEL LOCATION



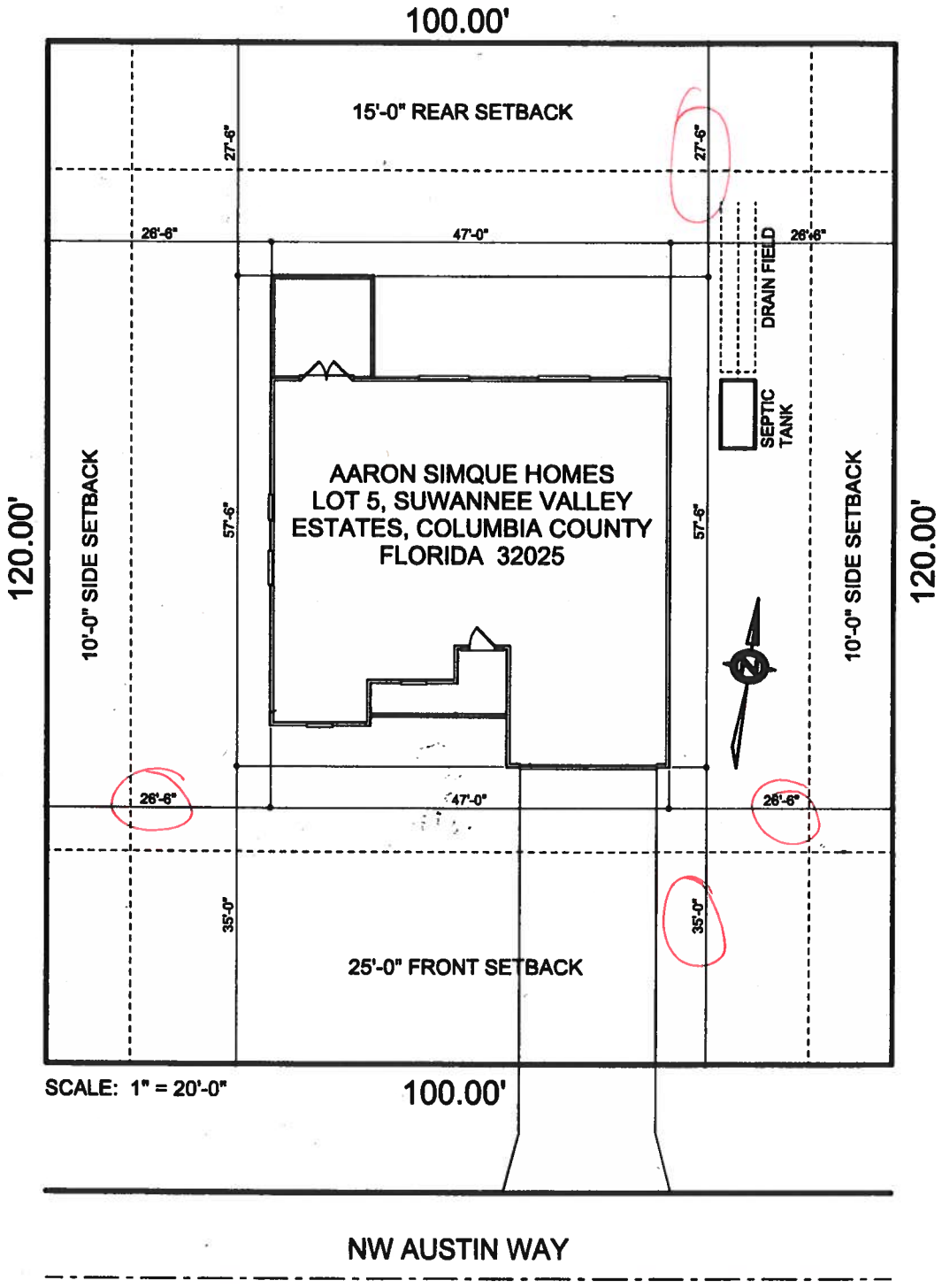
COMMUNITY-PANEL NUMBER
120070 0110 B

EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Futher information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/mit/tsd.

Print Date: 2/1/2006 (printed at scale and type A)


100.00'
15'-0" REAR SETBACK
27'-6"
27'-6"
26'-6"
47'-0"
26'-6"
DRAIN FIELD
SEPTIC TANK
120.00'
10'-0" SIDE SETBACK
AARON SIMQUE HOMES
LOT 5, SUWANNEE VALLEY
ESTATES, COLUMBIA COUNTY
FLORIDA 32025
57'-6"
57'-6"
10'-0" SIDE SETBACK
120.00'
26'-6"
47'-0"
26'-6"
35'-0"
35'-0"
25'-0" FRONT SETBACK
SCALE: 1" = 20'-0"
100.00'
NW AUSTIN WAY

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 22-2S-16-01716-002 **Building permit No.** 000024875

Use Classification SFD/UTILITY **Fire:** 50.22

Permit Holder AARON SIMQUES HOMES,INC. **Waste:** 150.75

Owner of Building SKYLINE HOMES,INC. **Total:** 200.97

Location: 204 NW AUSTIN WAY

Date: 01/02/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001189

DATE 08/16/2006 PARCEL ID # 22-2S-16-01716-002

APPLICANT MELANIE RODER/LINDA RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER SKYLINE HOMES,INC. PHONE

ADDRESS 204 NW AUSTIN WAY LAKE CITY FL 32055

CONTRACTOR AARON SIMQUES HOMES,INC. PHONE 386.755.0841

LOCATION OF PROPERTY 41-N TO SPARR ROAD,TL TO AUSTIN, TL AND IT'S THE 3RD LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT SUWANNEE VALLET EST. 5 E

SIGNATURE

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

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

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

Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

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

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

13 FEBRUARY 2006

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

RE: LOT 5, SUWANNEE VALLEY ESTATES S/D
PERMIT Nr.: 0601-77

DEAR SIR:

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

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

TRUSSES T01, T09 - T14 & T20, USE 2 "SIMPSON" H2.5A, MOUNTED DIAGONALLY OPPOSITE ACROSS TRUSS - 2 EACH END, EACH TRUSS.

TRUSS T08, USE "SIMPSON" H16 ANCHOR STRAP, EACH END OF TRUSS.

TRUSSES T03A & T05, USE "SIMPSON" LGT2 ANCHOR STRAP, EACH END.
NOTE: STUDS SUPPORTING GIRDERS SHALL BE SYP #2 OR BETTER.

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

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

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

Reference to: Build permit application Number: 0601-77

Aaron Simque Owner K & S Housing Lot 5 Suwannee Valley Estates

On the date of February 1, 2006 application 0601-77 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0601-77 when making reference to this application.

1. Please submit a recorded (with the Columbia County Clerk Office) a notice of commencement before any inspections can be preformed by the Columbia County Building Department.
2. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
3. Please have Mr. Nicholas Geisler supply the following information, show all required connectors with uplift rating for the truss system and required number and size of

fasteners for continuous tie from the roof to foundation. These connection points shall be designed by an architect or engineer using the engineered roof truss plans.

4. For construction of the false dormers provide a drawing, which will include design and construction information, including: rafter size, species, spacing, attachment to roof and uplift requirements.

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

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/ft^2
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 M. REEVES
CERTIFICATE
NO. 19354
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

1 APRIL 2002

Architectural Testing

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

Rendered to

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

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

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

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

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

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl 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

Allen N. Reeves
1 APRIL 2002

ALLEN N. REEVES
REGISTERED
NO. 19354
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
1 APRIL 2002

ALLEN N. REEVES ★ CERTIFICATE NO. 19[illegible] ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

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.

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

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

Allen N. Reeves
1 APRIL 2002

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

Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987)		
	In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.
	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
LICENSE NO. 18554
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

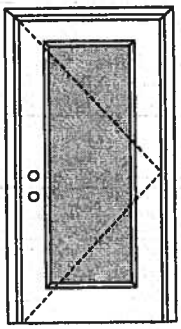
MAH:nlb
01-41134.01

X
Glazed Inswing Unit

COP-WL-JH4141-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

Warnock Hersey

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

Single Door
Maximum unit size = 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-MA0001-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series

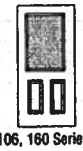

136 Series


680 Series


822 Series

1/2 GLASS:


105 Series*


106, 160 Series*


129 Series*


200 Series*


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


107 Series*


108 Series


304 Series

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

Johnson™ EntrySystems

June 17, 2002
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

Y
Glazed Inswing Unit

COP-WL-JH4141-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:

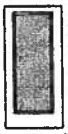

404 Series


410 Series

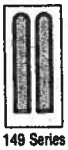

450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

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

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

Kurt L Balthazor

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

Warnock Hersey

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

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PREMDOR Collection Premium Quality Doors

Exclusively from Masonite

Masonite International Corporation

TAMKO®
ROOFING PRODUCTS

FEB - 4 RECD

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

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

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

All testing was performed by Florida State certified independent labs.

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

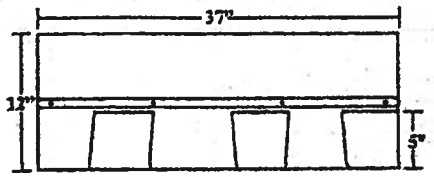
TAMKO Roofing Products, Inc.

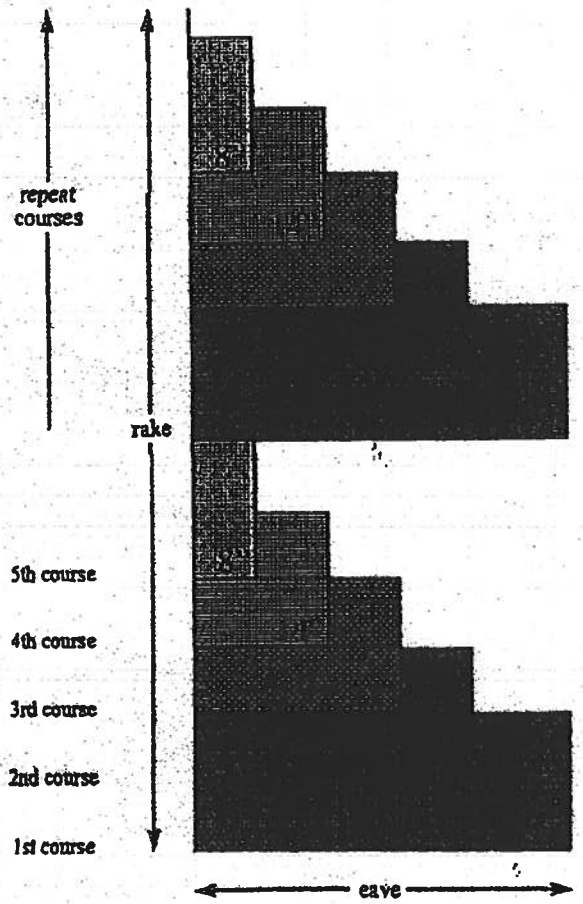
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

TAMKO
ROOFING PRODUCTS

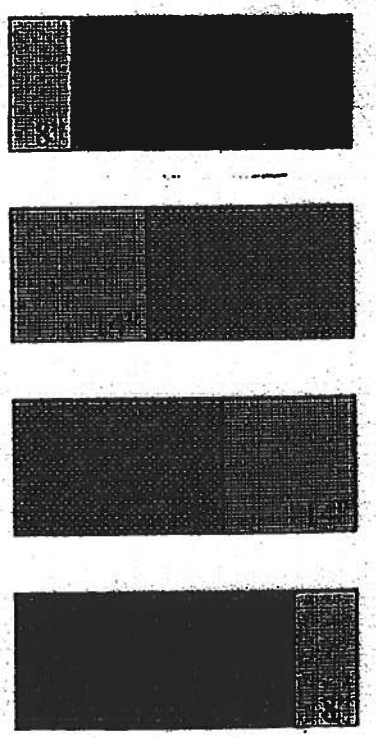
Application Instructions For Heritage® 25 Series Shingles

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





The 4 cuts in the first 10 courses:



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

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

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

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

TAMKO ROOFING PRODUCTS

Application Instructions for

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

THREE-TAB ASPHALT SHINGLES

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

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

1. ROOF DECK

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

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

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

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

2. VENTILATION

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

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

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

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

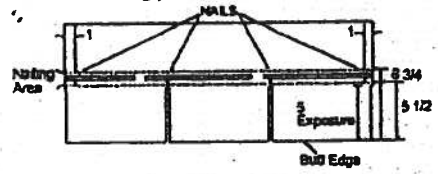
3. FASTENING

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

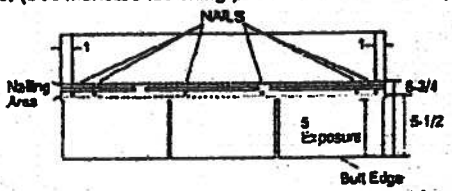
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

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

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



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



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

(Continued)

(CONTINUED from Pg. 2)

TAMKO ROOFING PRODUCTS

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

THREE-TAB ASPHALT SHINGLES

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

8. RE-ROOFING

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

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

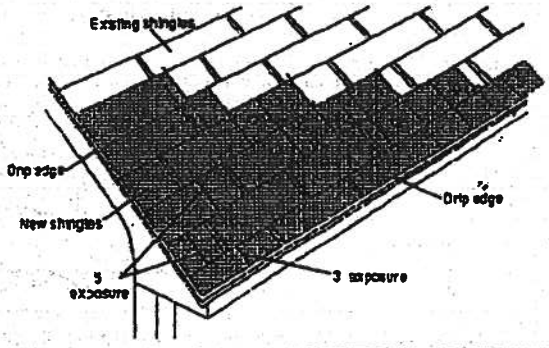
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

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

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

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



9. VALLEY APPLICATION

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

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

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

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

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

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

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

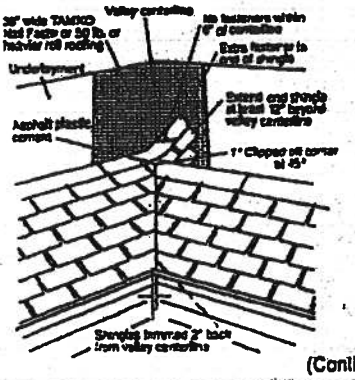
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 46-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.

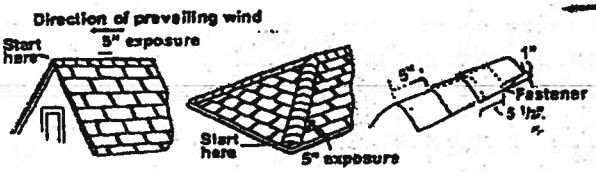
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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

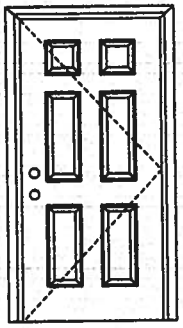
In this paragraph "You" and Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly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

X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

Warnock Hersey

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Single Door
Maximum unit size = 3'0" x 6'8"

Design Pressure
+66.0/-66.0
limited water unless special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is NOT 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-MA0001-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:


Flush


Arch Top 3-panel


3-panel


6-panel


New England 4-panel


Eyebrow 4-panel


8-panel


9-panel


15-panel


5-panel


5-panel with scroll


Eyebrow 5-panel


Eyebrow 5-panel with scroll

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Masonite International Corporation

Y
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

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

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

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.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH
MIAMI-DADE BCCO
PA201, PA202 & PA203

COMPANY NAME
CITY, STATE

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

Kurt L Balthazor

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

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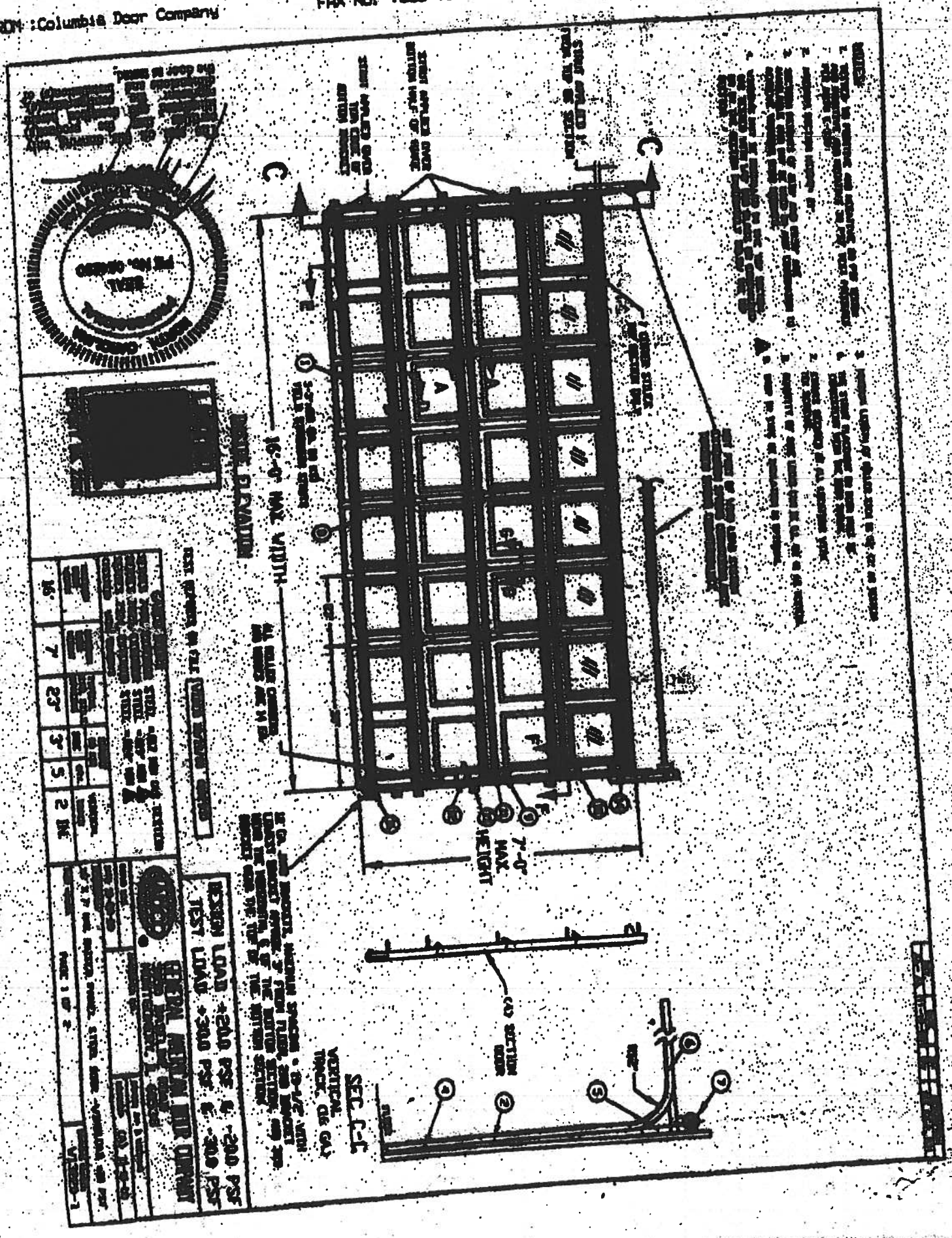
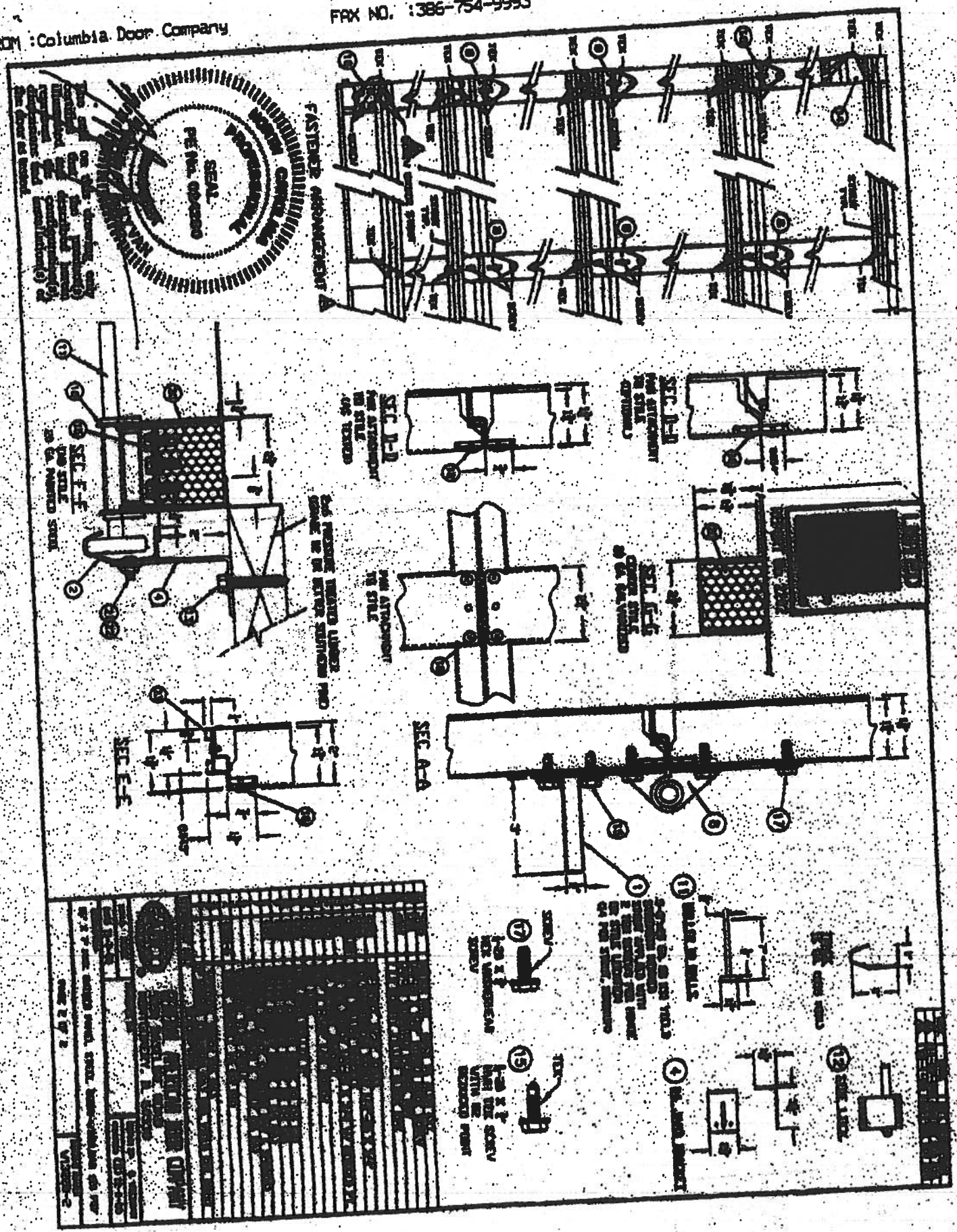

16'-0" MAX. WIDTH
7'-0" MAX. HEIGHT
SECTION C-C
VERTICAL TRACK, DR CAL
REVERSE LOAD +240 PSF @ -240 PSF
TEST LOAD +360 PSF @ -360 PSF


SEAL
FASTENER ARRANGEMENT
SEC E-E
SEC F-F
SEC G-G
SEC H-H
SEC A-A
SEC E-E

Residential System Sizing Calculation

Summary

Aaron Simque Homes

Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

12/7/2005

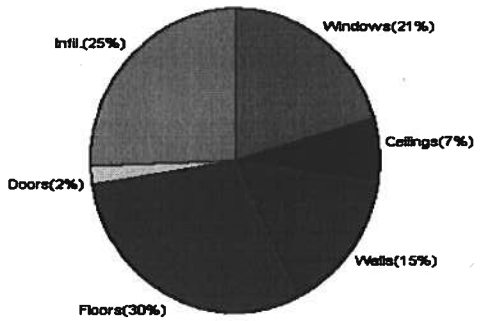
Location for weather data: Gainesville - User customized: Latitude(29) Altitude(152 ft.) Temp Range(M)
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)

Winter design temperature	33	F	Summer design temperature	99	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	24	F
Total heating load calculation	**25497**	**Btuh**	**Total cooling load calculation**	**33801**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	117.7	30000	Sensible (SHR = 0.75)	81.7	22500
Heat Pump + Auxiliary(0.0kW)	117.7	30000	Latent	119.7	7500
			Total (Electric Heat Pump)	88.8	30000

WINTER CALCULATIONS

Winter Heating Load (for 1485 sqft)

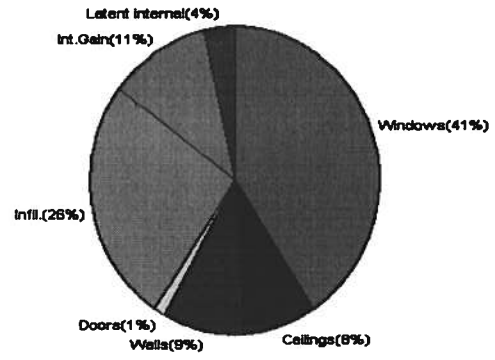
Load component			Load	
Window total	163	sqft	5257	Btuh
Wall total	1198	sqft	3935	Btuh
Door total	39	sqft	499	Btuh
Ceiling total	1485	sqft	1750	Btuh
Floor total	175	sqft	7641	Btuh
Infiltration	158	cfm	6416	Btuh
Duct loss			0	Btuh
Subtotal			**25497**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**25497**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1485 sqft)

Load component			Load	
Window total	163	sqft	13712	Btuh
Wall total	1198	sqft	3139	Btuh
Door total	39	sqft	472	Btuh
Ceiling total	1485	sqft	2790	Btuh
Floor total			0	Btuh
Infiltration	139	cfm	3642	Btuh
Internal gain			3780	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**27535**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			5065	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1200	Btuh
Total latent gain			**6265**	**Btuh**
TOTAL HEAT GAIN			**33801**	**Btuh**



Prepared by ACCA MANUAL J

For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: _____

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Aaron Simque Homes
Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

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

12/7/2005

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
2	2, Clear, Metal, 0.87	W	60.0	32.2	1931 Btuh
3	2, Clear, Metal, 0.87	W	4.0	32.2	129 Btuh
4	2, Clear, Metal, 0.87	E	13.3	32.2	428 Btuh
5	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
7	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
8	2, Clear, Metal, 0.87	S	12.0	32.2	386 Btuh
	Window Total		163(sqft)		5257 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1017	3.3	3339 Btuh
2	Frame - Wood - Adj(0.09)	13.0	181	3.3	596 Btuh
	Wall Total		1198		3935 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		19	12.9	240 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		39		499Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1485	1.2	1750 Btuh
	Ceiling Total		1485		1750Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	175.0 ft(p)	43.7	7641 Btuh
	Floor Total		175		7641 Btuh
			Zone Envelope Subtotal:		19081 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	11880	158.4	6416 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**25497 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Aaron Simque Homes

Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

12/7/2005

WHOLE HOUSE TOTALS

	Subtotal Sensible	25497 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25497 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Aaron Simque Homes
Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

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

12/7/2005

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
2	2, Clear, Metal, 0.87	W	60.0	32.2	1931 Btuh
3	2, Clear, Metal, 0.87	W	4.0	32.2	129 Btuh
4	2, Clear, Metal, 0.87	E	13.3	32.2	428 Btuh
5	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
7	2, Clear, Metal, 0.87	S	4.0	32.2	129 Btuh
8	2, Clear, Metal, 0.87	S	12.0	32.2	386 Btuh
	Window Total		163(sqft)		5257 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1017	3.3	3339 Btuh
2	Frame - Wood - Adj(0.09)	13.0	181	3.3	596 Btuh
	Wall Total		1198		3935 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		19	12.9	240 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		39		499Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1485	1.2	1750 Btuh
	Ceiling Total		1485		1750Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	175.0 ft(p)	43.7	7641 Btuh
	Floor Total		175		7641 Btuh
			Zone Envelope Subtotal:		19081 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	11880	158.4	6416 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1			**Sensible Zone Subtotal**		**25497 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Aaron Simque Homes

Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

12/7/2005

WHOLE HOUSE TOTALS

	Subtotal Sensible	25497 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25497 Btuh

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

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Aaron Simque Homes
Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 12/7/2005

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	W	13.5f	8ft.	40.0	40.0	0.0	35	86	1402 Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	60.0	0.0	60.0	35	86	5136 Btuh
3	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	4.0	0.0	4.0	35	86	342 Btuh
4	2, Clear, 0.87, None,N,N	E	9.5ft	8ft.	13.3	13.1	0.2	35	86	478 Btuh
5	2, Clear, 0.87, None,N,N	E	5.5ft	8ft.	15.0	4.7	10.3	35	86	1047 Btuh
6	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	35	86	1284 Btuh
7	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	4.0	4.0	0.0	35	40	140 Btuh
8	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	12.0	12.0	0.0	35	40	421 Btuh
	Excursion									3462 Btuh
	Window Total				163 (sqft)					13712 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1016.7	2.7	2752 Btuh
2	Frame - Wood - Adj	13.0/0.09	181.4	2.1	386 Btuh
	Wall Total		1198 (sqft)		3139 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	18.6	12.3	227 Btuh
2	Insulated - Exterior	20.0	12.3	245 Btuh
	Door Total	39 (sqft)		472 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1485.0	1.9	2790 Btuh
	Ceiling Total		1485 (sqft)		2790 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	175 (ft(p))	0.0	0 Btuh
	Floor Total		175.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		20114 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	11880	138.6	3642 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	**27535 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Aaron Simque Homes

Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

12/7/2005

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**27535 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**27535 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**27535 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	5065 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	**6265 Btuh**
	TOTAL GAIN	**33801 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

Aaron Simque Homes
Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 12/7/2005

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	13.5f	8ft.	40.0	40.0	0.0	35	86	1402 Btuh
2	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	60.0	0.0	60.0	35	86	5136 Btuh
3	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	4.0	0.0	4.0	35	86	342 Btuh
4	2, Clear, 0.87, None,N,N	E	9.5ft	8ft.	13.3	13.1	0.2	35	86	478 Btuh
5	2, Clear, 0.87, None,N,N	E	5.5ft	8ft.	15.0	4.7	10.3	35	86	1047 Btuh
6	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	35	86	1284 Btuh
7	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	4.0	4.0	0.0	35	40	140 Btuh
8	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	12.0	12.0	0.0	35	40	421 Btuh
	Excursion									3462 Btuh
	Window Total				163 (sqft)					13712 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1016.7	2.7	2752 Btuh
2	Frame - Wood - Adj	13.0/0.09	181.4	2.1	386 Btuh
	Wall Total		1198 (sqft)		3139 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	18.6	12.3	227 Btuh
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	Door Total	39 (sqft)		472 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	1485.0	1.9	2790 Btuh
	Ceiling Total		1485 (sqft)		2790 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	175 (ft(p))	0.0	0 Btuh
	Floor Total		175.0 (sqft)		0 Btuh

			Load
	Zone Envelope Subtotal:		20114 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.70	11880	138.6	3642 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	**27535 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Aaron Simque Homes

Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

Code Only
Professional Version
Climate: North

12/7/2005

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**27535 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**27535 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**27535 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	5065 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	**6265 Btuh**
	TOTAL GAIN	**33801 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

Aaron Simque Homes

Lake City, FL 32025-

Project Title:
The Arlington Model - lot 5

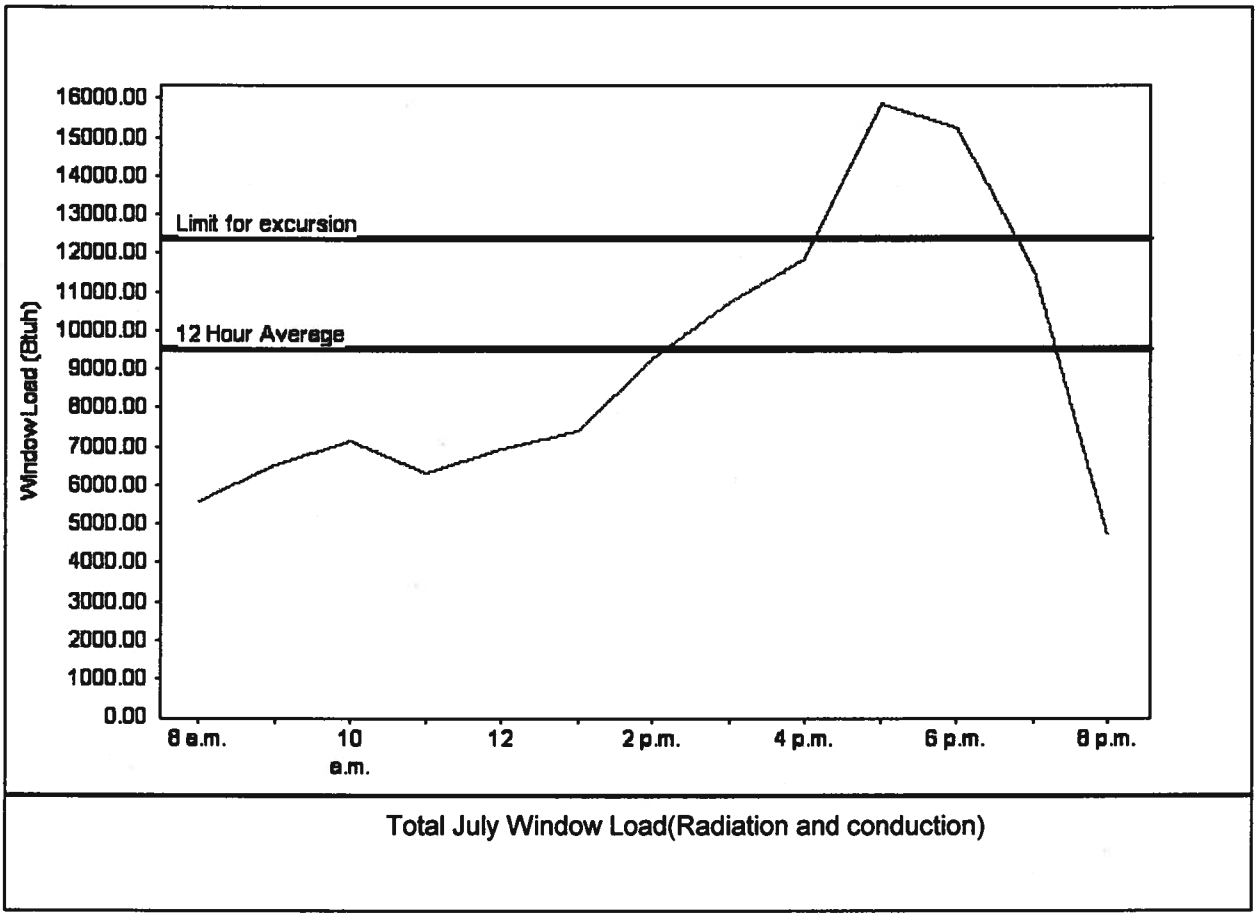
Code Only
Professional Version
Climate: North

12/7/2005

Weather data for: Gainesville - User customized

Summer design temperature	99 F	Average window load for July	9531 Btuh
Summer setpoint	75 F	Peak window load for July	15853 Btu
Summer temperature difference	24 F	Excusion limit(130% of Ave.)	12391 Btu
Latitude	29 North	Window excursion (July)	3462 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: _____
DATE: _____

Lot 5 Suwannee Valley Estates

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 (accessable bathroom)

Foundation Plan including:

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

Roof System:

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

Wall Sections including:

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

☐ ☐ b) Wood frame wall

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

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

Floor Framing System:

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

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

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

☐ ☐ b) Ceiling fans

☐ ☐ c) Smoke detectors

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

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

☐ ☐ f) Appliances and HVAC equipment

HVAC information

☐ ☐ a) Manual J sizing equipment or equivalent computation

☐ ☐ b) Exhaust fans in bathroom

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

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

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

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. #24875

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Colo Terrace City Lake City State FL Zip 32055
Company Business License No. JB103476 Company Phone No. 386-755-5511
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Baron Simpson Homes Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 704 N.W. Austin Way Lake City, FL

Type of Construction (More than one box may be checked) ☑ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 12 Inside 24 Type of Fill Dirt

Section 4: Treatment Information

Date(s) of Treatment(s) 9-11-06
Brand Name of Product(s) Used G. Pro
EPA Registration No. 7969-6-1
Approximate Final Mix Solution % 0.25%
Approximate Size of Treatment Area: Sq. ft. 7131 Linear ft. 220 Linear ft. of Masonry Voids 220
Approximate Total Gallons of Solution Applied 464
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments

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

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

Authorized Signature S Brannan Date 9-11-06

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

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

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

19 OCTOBER 2006

RANDY JONES, BUILDING INSPECTOR
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: PHINNEY RESIDENCE for AARON SIMQUE
PERMIT Nr.: _____

DEAR SIR:

PLEASE BE ADVISED OF THE FOLLOWING CHANGE TOTHE CONSTRUCTION DOCUMENTS FOR THE ABOVE REFERENCED PROJECT:

1. IN LIEU OF THE PC44/EPC44 POST/BEAM ANCHORS, IT IS PERMISSIBLE TO INSTALL 2 "SIMPSON" LSTAI2 STRAPS AT THESE JOINTS, PLACING ONE STRAP ON EACH FACE OF THE BEAM CENTERED ON THE JOINT.

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

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

B06-0364

Architectural Services and Engineering, Inc.

Florida
24710 State Road 54
Lutz, Florida 33559
1-813-948-2812 FAX : 1-813-949-2016
Florida engineering license CA 7882

Texas
3000 Sage Road, Suite 1374
Houston, Texas 77056
1-713-963-8840 FAX: 1-713-963-9840
Texas engineering license 95105

E-Mail: office@asande.com
Designers and engineers since 1965

TRUSS REPAIR COVERSHEET

Job number	Date received	Repair done by	Date repair done
L209308	10.17.06	C	10/17/06

- ☐ **Hold (date)** _____
- ☐ **No. of repairs** 1
- ☐ **3 raised/ 1 flat seal**
- ☐ **Date faxed**

Lake City

Mailed daily. Mail out regular mail.

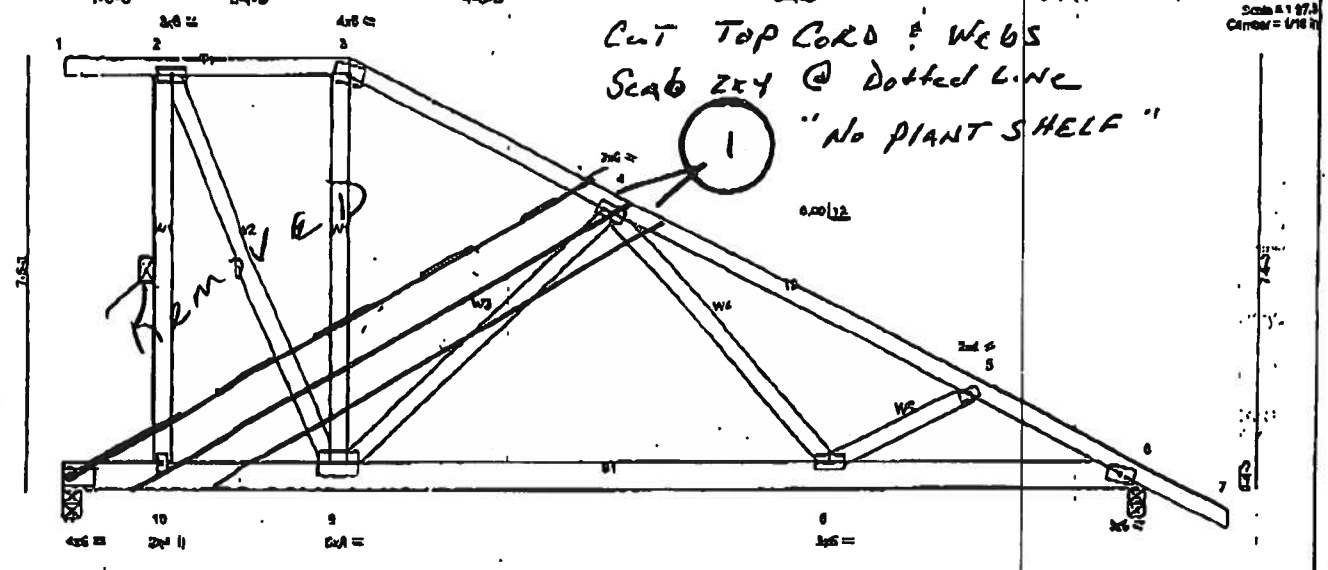
Phinney / Peterson
Sundance LOT 5 BLK E

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST.-ARLINGTON
L209308	T04B	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 6.200 s Jul 19 2005 MiTek Industries, Inc. Wed Sep 06 10:59:45 2006 Page 1

1-6-0 4-10-0 8-6-0 15-10-5 18-0-0 20-6-0
1-6-0 3-4-0 4-8-0 6-4-5 3-1-11 1-6-0

Scale = 1:37.3
Camber = 1/16 in



1-6-0 4-10-0 13-4-6 18-0-0
1-6-0 3-4-0 8-8-8 5-7-10

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

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Increase 1.25	TC 0.52	Vert(LL) 0.11 9-10 >999 240	MT20 244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.78	Vert(TL) -0.17 9-10 >999 180	
BCLL 10.0	Rep Stress Incr YES	WB 0.54	Horz(TL) 0.01 6 n/a n/a	
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)		Weight: 131 lb

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-14 oc bracing.
WEBS 1 Row at midpt 2-10

REACTIONS (lb/size) 11=790/0-3-8, 6=979/0-3-8
Max Horz 11=377(load case 6)
Max Uplift 11=-289(load case 6), 6=-324(load case 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=-427/214, 3-4=-546/196, 4-5=-1255/369, 5-6=-1492/525, 6-7=0/39

ARCHITECTURAL SERVICES AND ENGINEERING
24710 STATE ROAD 54
LUTZ, FL 33559
FLORIDA LICENSE NUMBER CA 7882

1. 2x4 No.2 SYP SCAB ONE FACE WITH 10-10d's AT THE BOTTOM CHORD AND 5-10d's AT EACH WEB MEMBER.

ROBERT W. WALL
LICENSE
No. 46021
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST.-ARLINGTON
L209308	T04B	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Sep 06 10:37:45 2006 Page 1

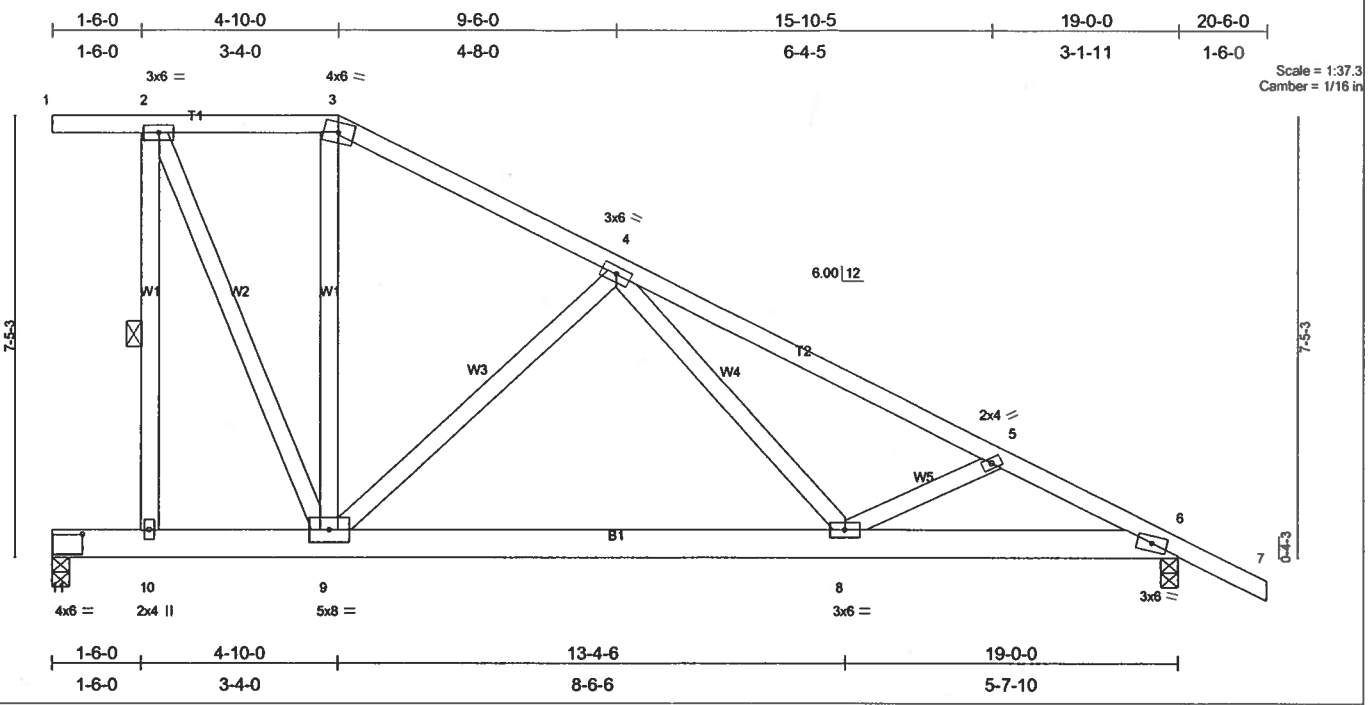


Plate Offsets (X,Y): [8:12-10-3,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.11	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.17	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 131 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-14 oc bracing.
WEBS 1 Row at midpt 2-10

REACTIONS (lb/size) 11=790/0-3-8, 6=879/0-3-8
Max Horz 11=-377(load case 6)
Max Uplift11=-288(load case 6), 6=-324(load case 6)

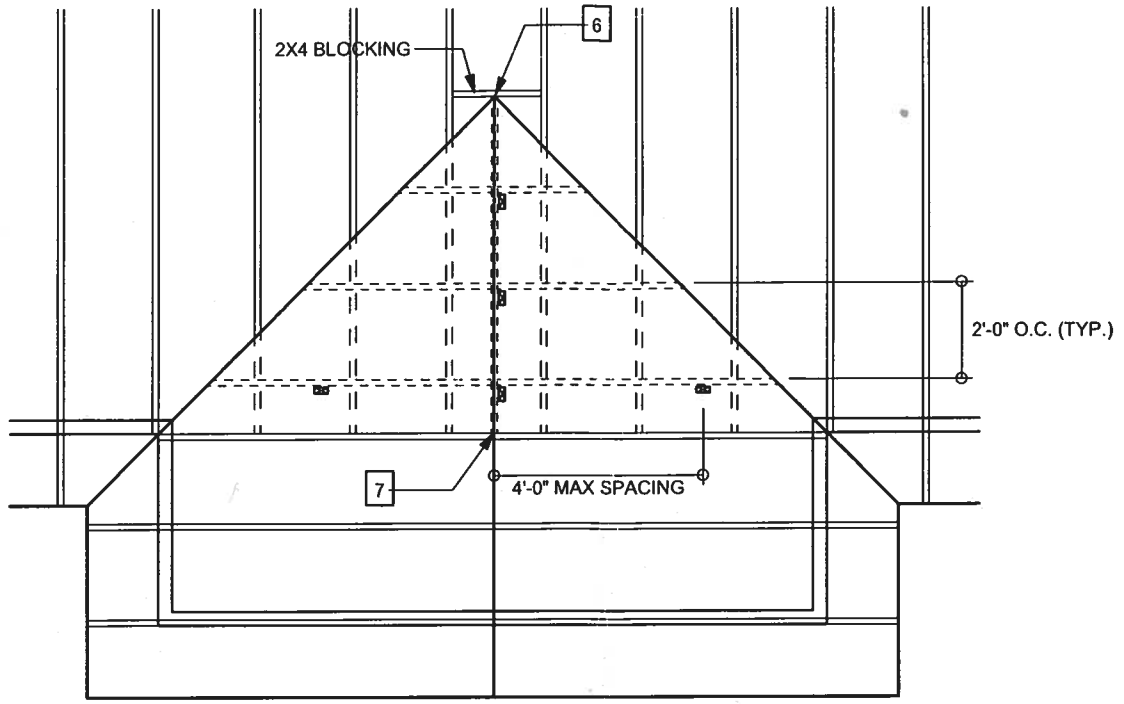
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=-427/214, 3-4=-546/196, 4-5=-1255/363, 5-6=-1493/523, 6-7=0/39
BOT CHORD 10-11=0/424, 9-10=0/424, 8-9=-48/786, 6-8=-378/1325
WEBS 2-9=-540/1079, 3-9=0/60, 4-8=-75/424, 4-9=-503/359, 5-8=-307/322, 2-10=-1174/645

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 11 and 324 lb uplift at joint 6.

LOAD CASE(S) Standard

LUMBER SIZE & GRADE MINUMUM REQUIREMENTS

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



VALLEY ROOF PLAN

VALLEY ROOF PLAN MEMBER LEGEND

TRUSS
TRUSS UNDER VALLEY FRAMING
VALLEY RAFTER OR RIDGE
CRIPPLE

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

CONNECTION REQUIREMENT NOTES

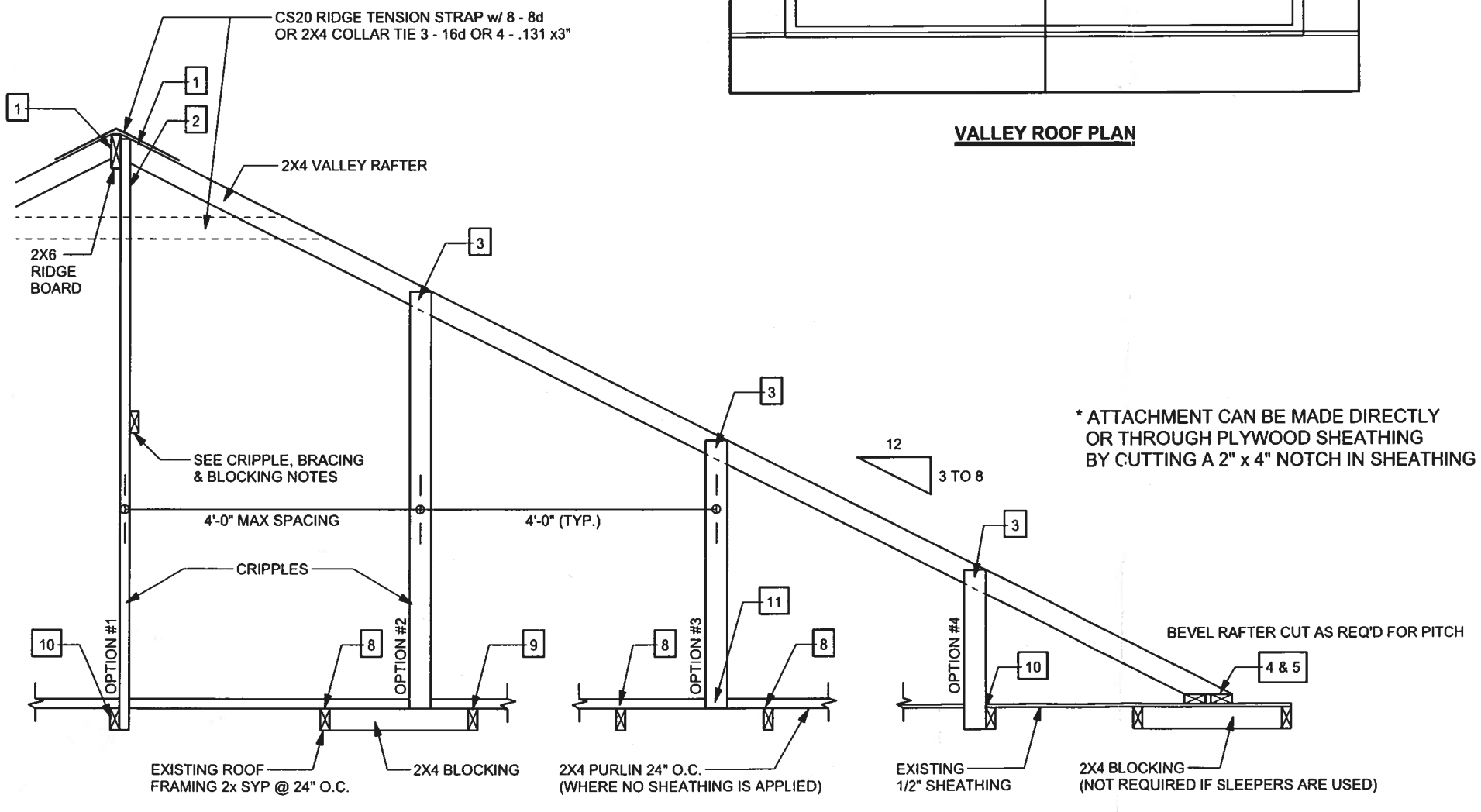
1	2X4 RAFTERS TO RIDGE	3 -16d OR 6 - .131 x 3" TOE NAILS
2	CRIPPLE TO RIDGE	3 - 16d OR 6 - .131 x 3" FACE NAILS
3	CRIPPLE TO RAFTERS	3 - 16d OR 6 - .131 x 3" FACE NAILS
4	RAFTER TO SLEEPER OR BLOCKING	6 -16d OR 12 - .131 x 3" TOE NAILS
5	SLEEPER TO TRUSS	4 - 16d OR 8 - .131 x 3" FACE NAILS EACH TRUSS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

GENERAL NOTES

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

CRIPPLE, BRACING, & BLOCKING NOTES

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



SECTION CUT PARALLEL TO VALLEY RAFTER

RETROFIT ROOF OVER FRAMING & BRACING DETAIL

MARK DISOSWAY P.E.
Ph 386-754-5419
POB868, Lake City, FL 32056
PE_No _FL-53915 NC-26032

11 SEP 06

Project Information for:	**L143613**		
Builder:	**AORON SIMQUE**	Date:	12/28/2005
Lot:	**LOT 5 SUWANNEE VALLEY I**	Start Number:	**1104**
Subdivision:	**N/A**		
County or City:	**COLUMBIA**		
Truss Page Count:	**35**		

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)

SIMQUE, AARON D. RB29003130
Address: 320 SW AINSLEY GLN.
LAKE CITY, FL 32025 Designer: **113**

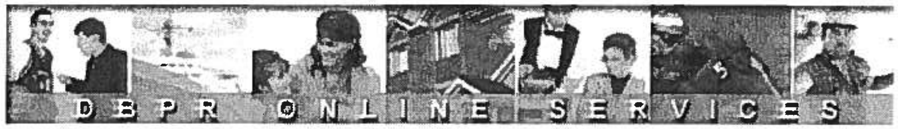
Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address 16105 N. Florida Ave, Ste B, Lutz, FL 33549

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	1228051104	12/28/2005				
2	CJ3	1228051105	12/28/2005				
3	CJ5	1228051106	12/28/2005				
4	EJ5	1228051107	12/28/2005				
5	EJ7	1228051108	12/28/2005				
6	EJ7A	1228051109	12/28/2005				
7	EJ7B	1228051110	12/28/2005				
8	EJ7C	1228051111	12/28/2005				
9	EJ7D	1228051112	12/28/2005				
10	HJ7	1228051113	12/28/2005				
11	HJ9	1228051114	12/28/2005				
12	T01	1228051115	12/28/2005				
13	T02	1228051116	12/28/2005				
14	T03A	1228051117	12/28/2005				
15	T03G	1228051118	12/28/2005				
16	T04	1228051119	12/28/2005				
17	T04A	1228051120	12/28/2005				
18	T04B	1228051121	12/28/2005				
19	T04G	1228051122	12/28/2005				
20	T05	1228051123	12/28/2005				
21	T06	1228051124	12/28/2005				
22	T07	1228051125	12/28/2005				
23	T08	1228051126	12/28/2005				
24	T09	1228051127	12/28/2005				
25	T10	1228051128	12/28/2005				
26	T11	1228051129	12/28/2005				
27	T12	1228051130	12/28/2005				
28	T13	1228051131	12/28/2005				
29	T14	1228051132	12/28/2005				
30	T15	1228051133	12/28/2005				
31	T16	1228051134	12/28/2005				
32	T17	1228051135	12/28/2005				
33	T18	1228051136	12/28/2005				
34	T19	1228051137	12/28/2005				
35	T20	1228051138	12/28/2005				

DEC 2 8 2005



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Licensee Details

Licensee Information

Name:	**SIMQUE, AARON DAVID (Primary Name)** **AARON SIMQUE HOMES INC (DBA Name)**
Main Address:	**320 SW AINSLEY GLN.** **LAKE CITY, Florida 32024**

License Information

License Type:	**Registered Building Contractor**
Rank:	**Reg Building**
License Number:	**RB29003130**
Status:	**Current, Active**
Licensure Date:	**10/23/2002**
Expires:	**08/31/2005**

Special Qualifications	Effective Date
Bldg Code Core Course Credit	
Qualified Business License Required	02/20/2004

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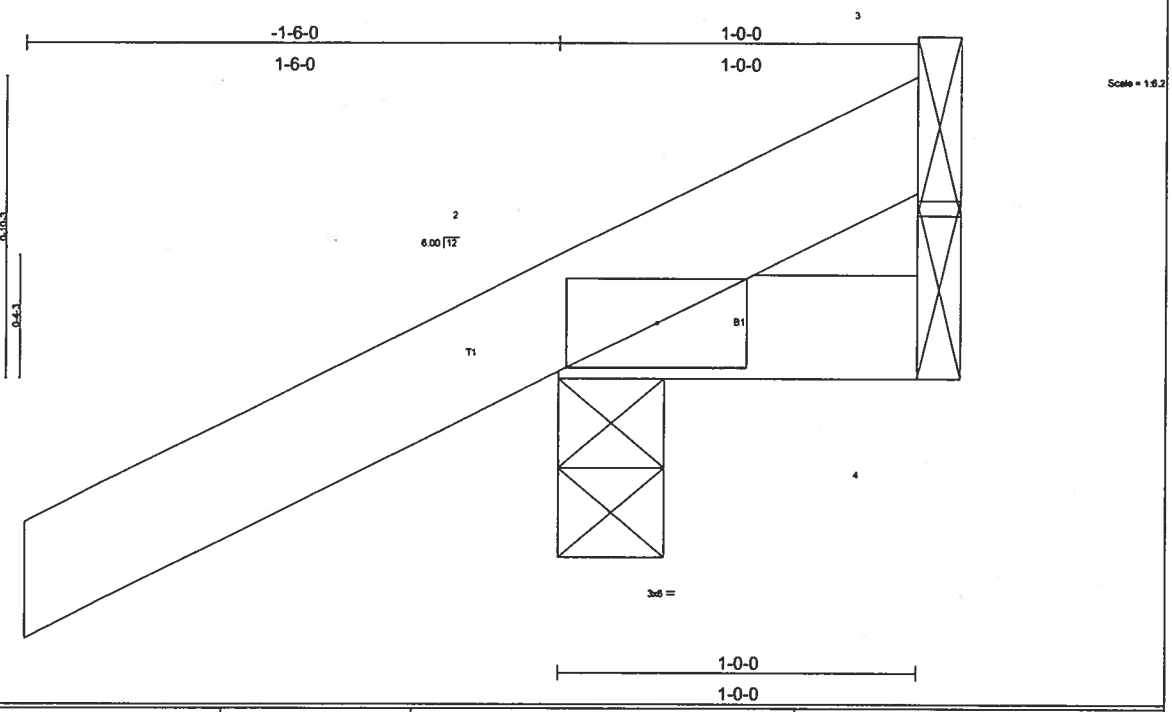
DECEMBER 28, 2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#1228051104

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	CJ1	MONO TRUSS	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:30 2005 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	0.15	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=189/0-3-8, 4=14/Mechanical, 3=-40/Mechanical
Max Horz 2=70(load case 5)
Max Uplift2=-192(load case 5), 4=-9(load case 3), 3=-40(load case 1)
Max Grav 2=189(load case 1), 4=14(load case 1), 3=61(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-45/34
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2, 9 lb uplift at joint 4 and 40 lb uplift at joint 3.

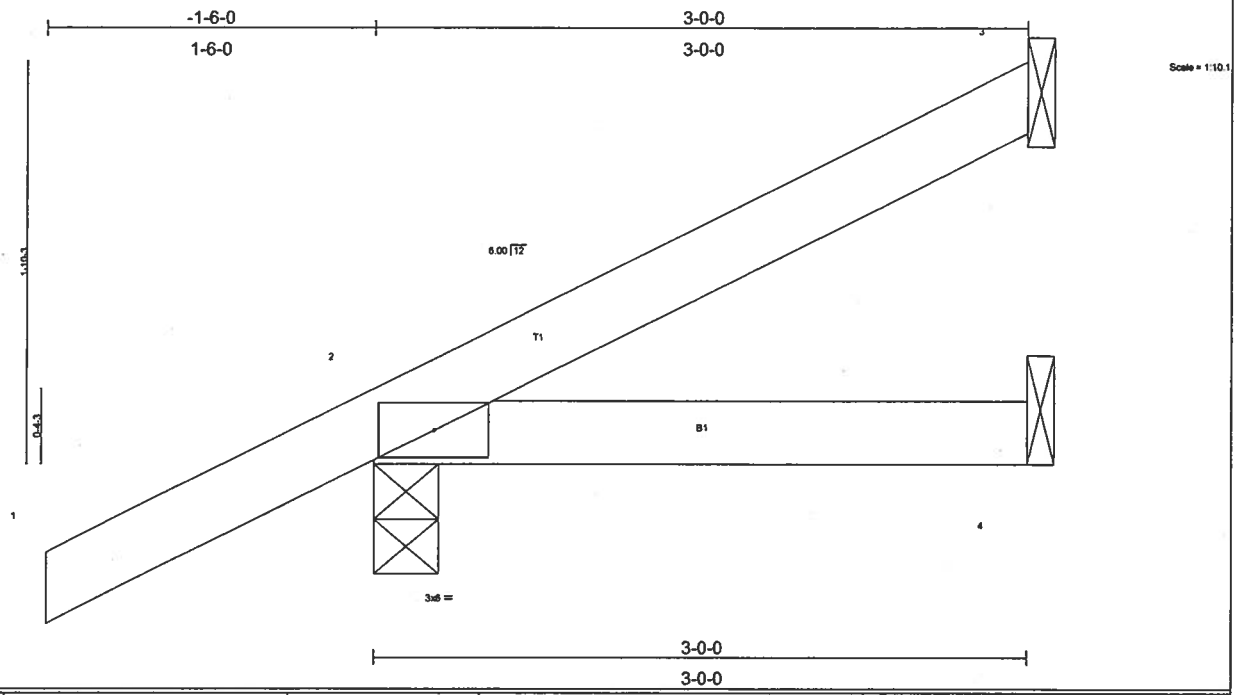
LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051105

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	CJ3	MONO TRUSS	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:31 2005 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	0.17	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=49/Mechanical, 2=232/0-3-8, 4=42/Mechanical
Max Horz 2=115(load case 5)
Max Uplift3=-38(load case 5), 2=-186(load case 5), 4=-27(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-48/16
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 3, 186 lb uplift at joint 2 and 27 lb uplift at joint 4.

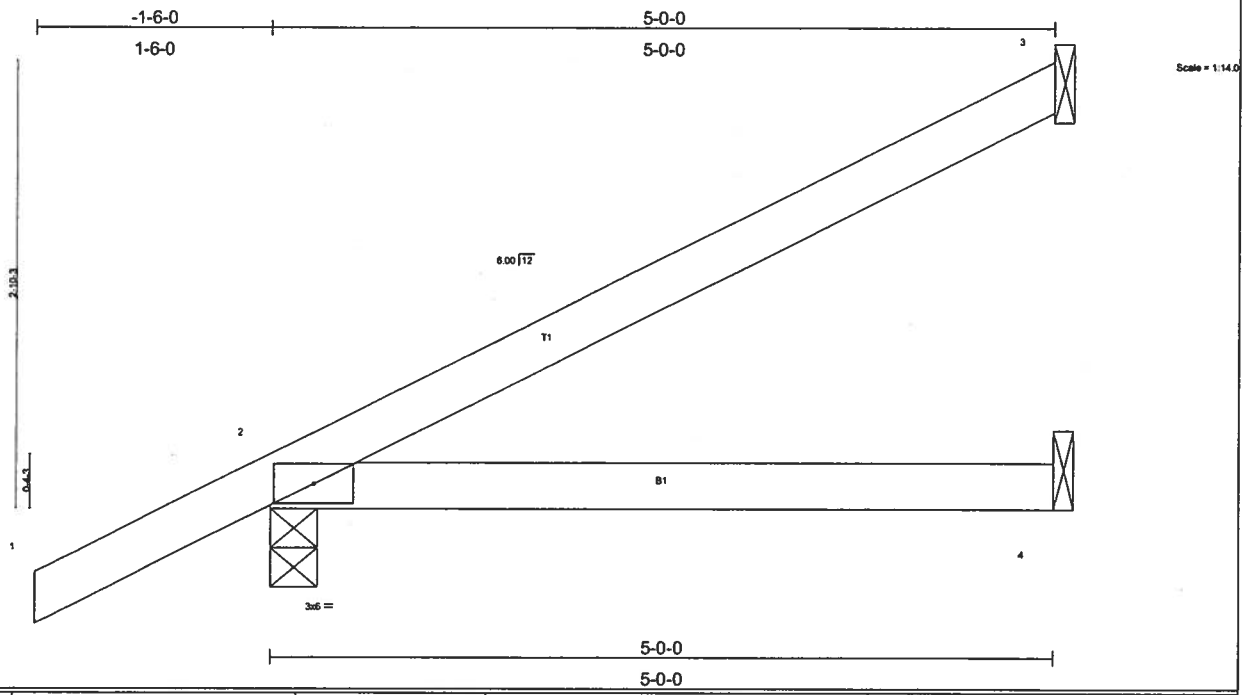
LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051106

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	CJ5	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:32 2005 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	0.25	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=114/Mechanical, 2=305/0-3-8, 4=72/Mechanical
Max Horz 2=162(load case 5)
Max Uplift3=-101(load case 5), 2=-157(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-96/41
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 3 and 157 lb uplift at joint 2.

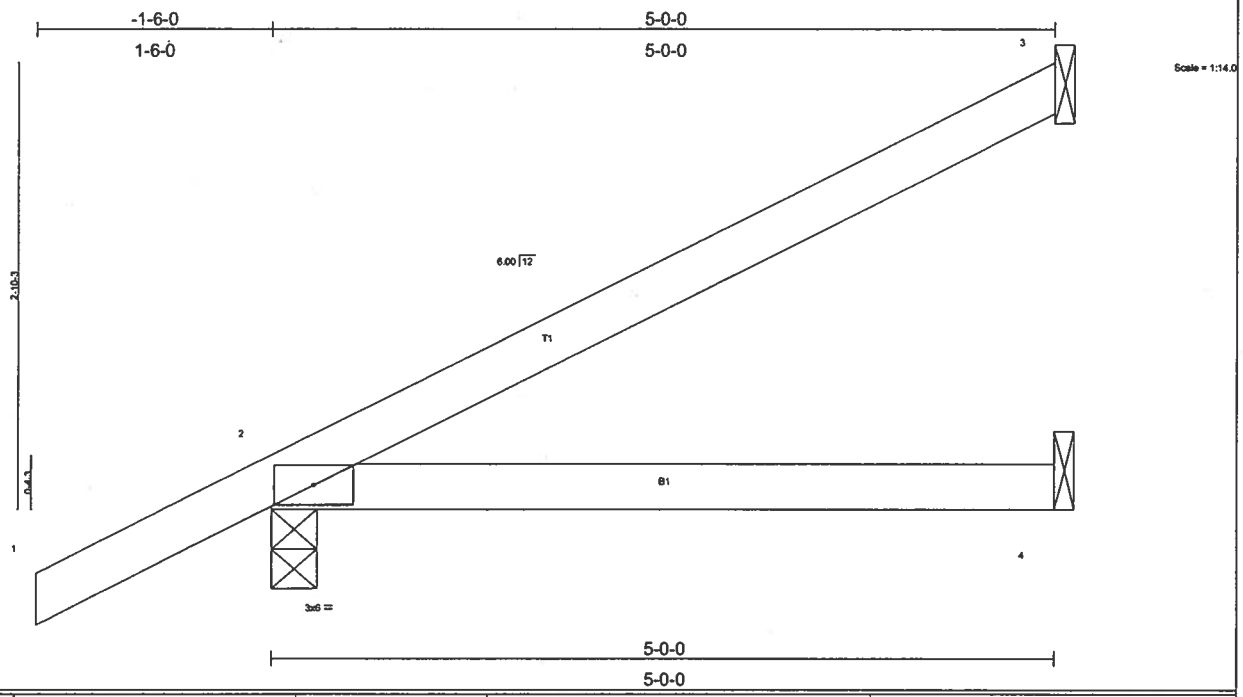
LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051107

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	EJ5	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:32 2005 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	0.25	Vert(LL)	0.09	2-4	>663	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	0.07	2-4	>774	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=114/Mechanical, 2=305/0-3-8, 4=72/Mechanical
Max Horz 2=162(load case 5)
Max Uplift3=-101(load case 5), 2=-218(load case 5), 4=-46(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-96/41
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 3, 218 lb uplift at joint 2 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051108

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	EJ7	MONO TRUSS	23	1	Job Reference (optional)

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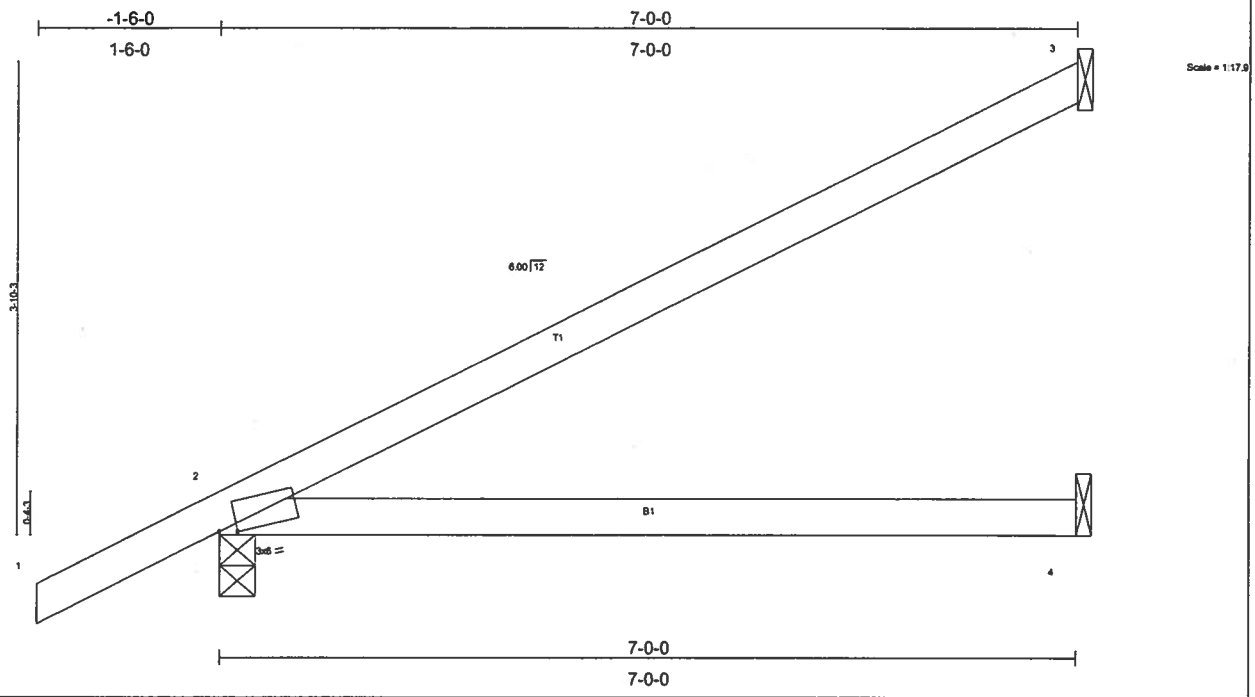

Plate Offsets (X,Y): [2:0-1-12,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.13	2-4	>606	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.22	2-4	>365	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: 25 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=385/0-3-8, 4=108/Mechanical
Max Horz 2=208(load case 5)
Max Uplift3=-139(load case 5), 2=-172(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-122/59
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 3 and 172 lb uplift at joint 2.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051109

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	EJ7A	COMMON	2	1	Job Reference (optional)

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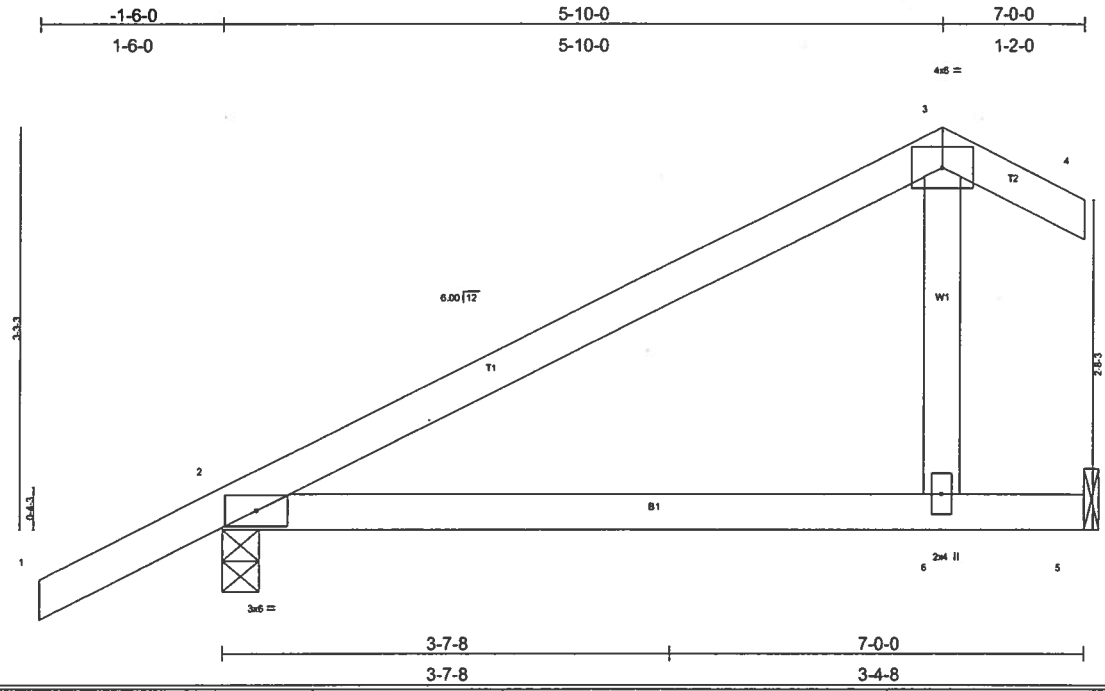


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	0.20	2-6	>410	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.31	2-6	>260	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 29 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 7-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=385/0-3-8, 5=278/Mechanical
Max Horz 2=153(load case 5)
Max Uplift2=-196(load case 5), 5=-119(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-59/58, 3-4=0/28
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-220/256

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2 and 119 lb uplift at joint 5.

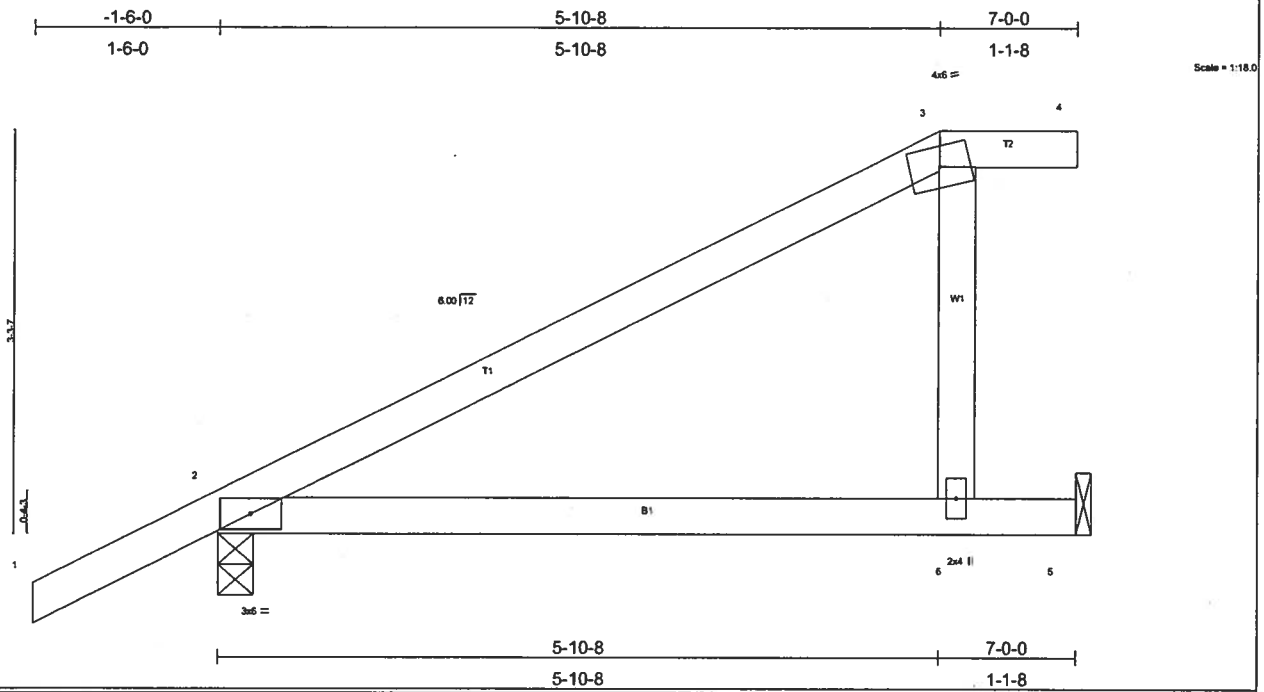
LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051110

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	EJ7B	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:34 2005 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	0.35	Vert(LL)	-0.18	2-6	>464	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.29	2-6	>284	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 29 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) 2=385/0-3-8, 5=278/Mechanical
Max Horz 2=184(load case 5)
Max Uplift2=-184(load case 5), 5=-131(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-97/46, 3-4=-0/0
BOT CHORD 2-6=-12/10, 5-6=0/0
WEBS 3-6=-212/244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 2 and 131 lb uplift at joint 5.

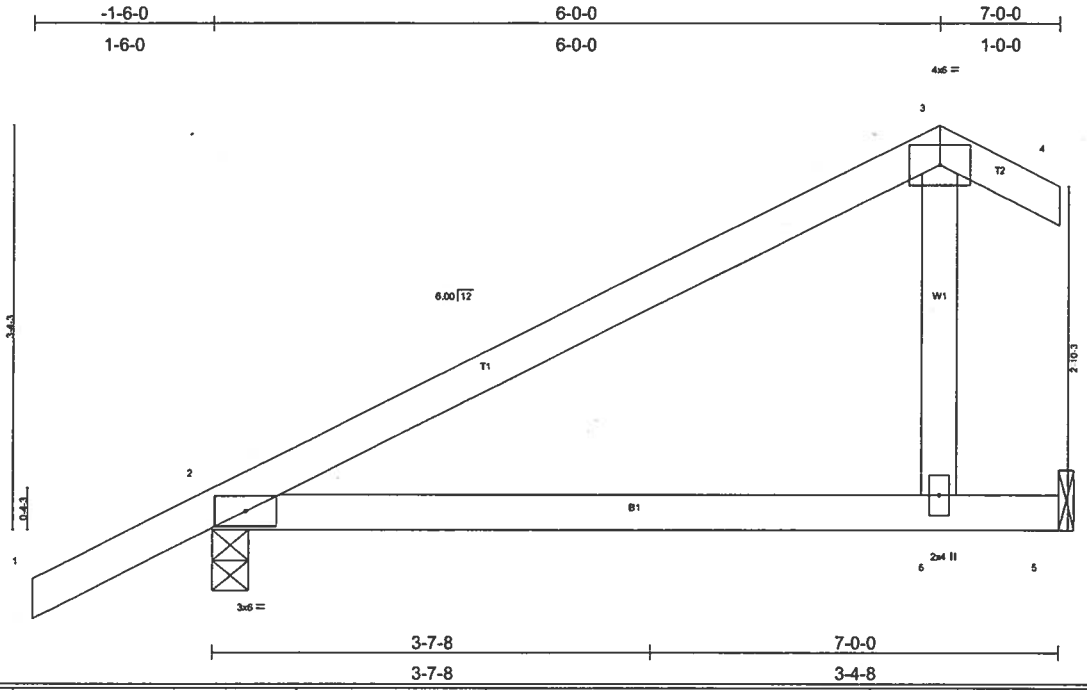
LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051111

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	EJ7C	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:35 2005 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	0.37	Vert(LL)	-0.18	2-6	>451	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.30	2-6	>276	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 29 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) 2=385/0-3-8, 5=278/Mechanical
Max Horz 2=161(load case 5)
Max Uplift2=-193(load case 5), 5=-122(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-67/58, 3-4=0/24
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-211/247

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2 and 122 lb uplift at joint 5.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051112

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	EJ7D	MONO HIP	1	1	Job Reference (optional)

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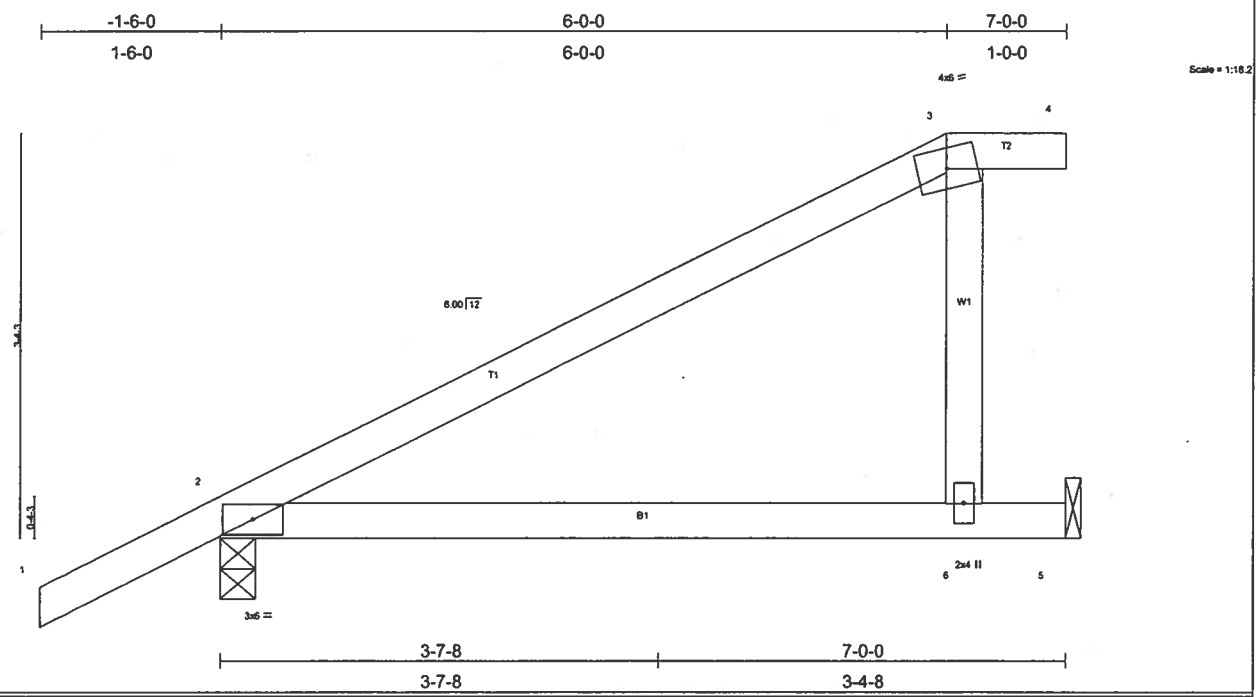

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.17	2-6	>486	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.27	2-6	>296	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 29 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) 2=385/0-3-8, 5=278/Mechanical
Max Horz 2=187(load case 5)
Max Uplift2=-182(load case 5), 5=-132(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-98/47, 3-4=-0/0
BOT CHORD 2-6=-11/10, 5-6=0/0
WEBS 3-6=-206/239

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2 and 132 lb uplift at joint 5.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051113

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	HJ7	MONO TRUSS	2	1	Job Reference (optional)

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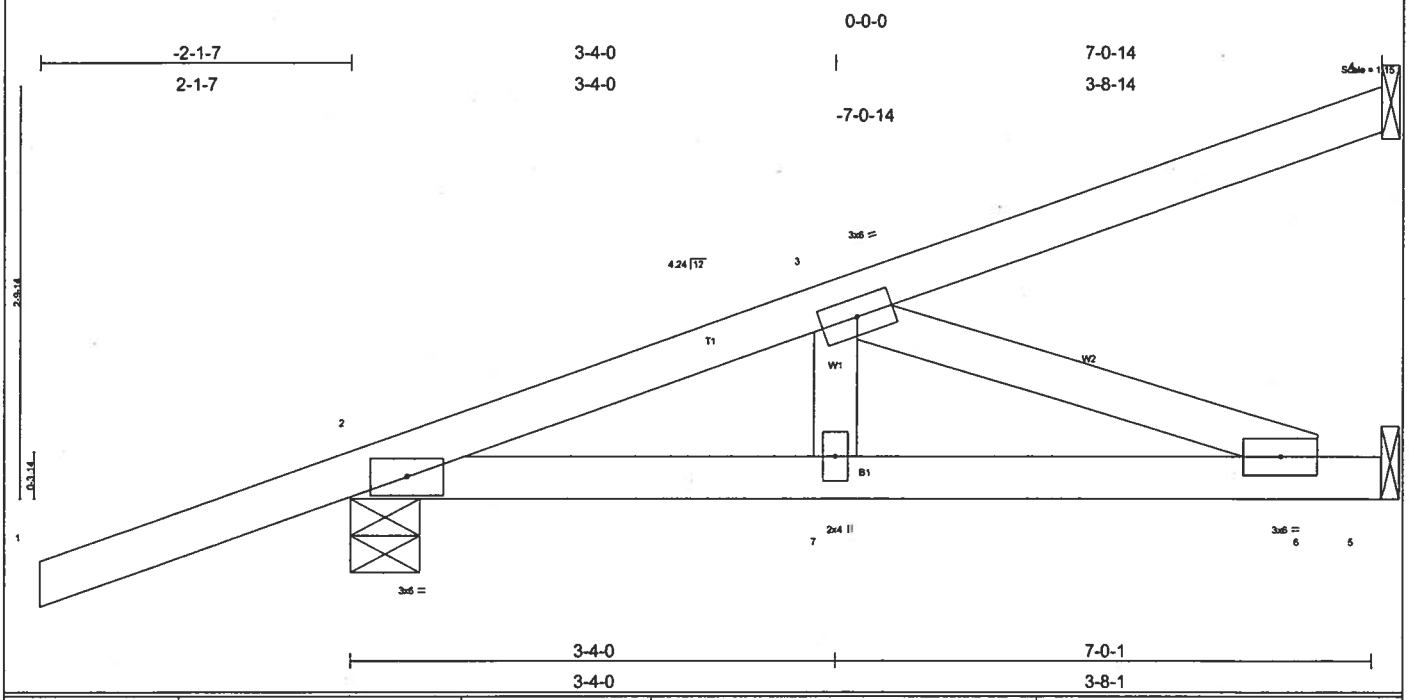

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.02	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	-0.04	6-7	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 31 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=133/Mechanical, 2=324/0-5-11, 5=184/Mechanical
Max Horz 2=148(load case 2)
Max Uplift4=-112(load case 2), 2=-279(load case 2), 5=-105(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-369/157, 3-4=-51/33
BOT CHORD 2-7=-232/331, 6-7=-232/331, 5-6=0/0
WEBS 3-7=-75/85, 3-6=-353/247

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 4, 279 lb uplift at joint 2 and 105 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-3(F=25, B=25)-to-4=-95(F=-21, B=-21), 2=-0(F=15, B=15)-to-5=-53(F=-12, B=-12)

DECEMBER 28, 2005 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.#1228051114

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	HJ9	MONO TRUSS	1	1	Job Reference (optional)

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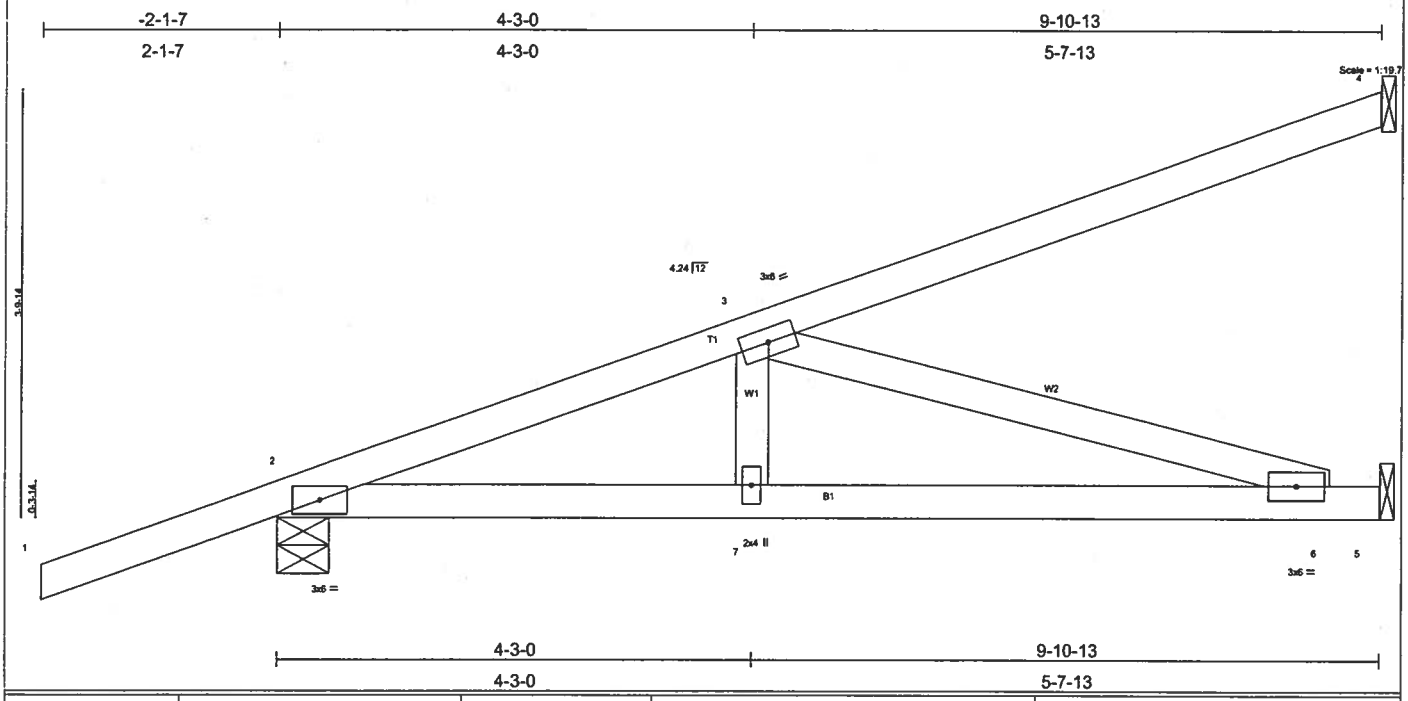

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.11	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.18	6-7	>626	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(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 5-11-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-9-9 oc bracing.

REACTIONS (lb/size) 4=268/Mechanical, 2=486/0-5-11, 5=386/Mechanical
Max Horz 2=253(load case 2)
Max Uplift4=-230(load case 2), 2=-229(load case 2), 5=-77(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-934/180, 3-4=-104/65
BOT CHORD 2-7=-370/869, 6-7=-370/869, 5-6=0/0
WEBS 3-7=0/208, 3-6=-906/385

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 4, 229 lb uplift at joint 2 and 77 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

DECEMBER 28, 2005 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.#1228051115

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T01	HIP	1	1	Job Reference (optional)

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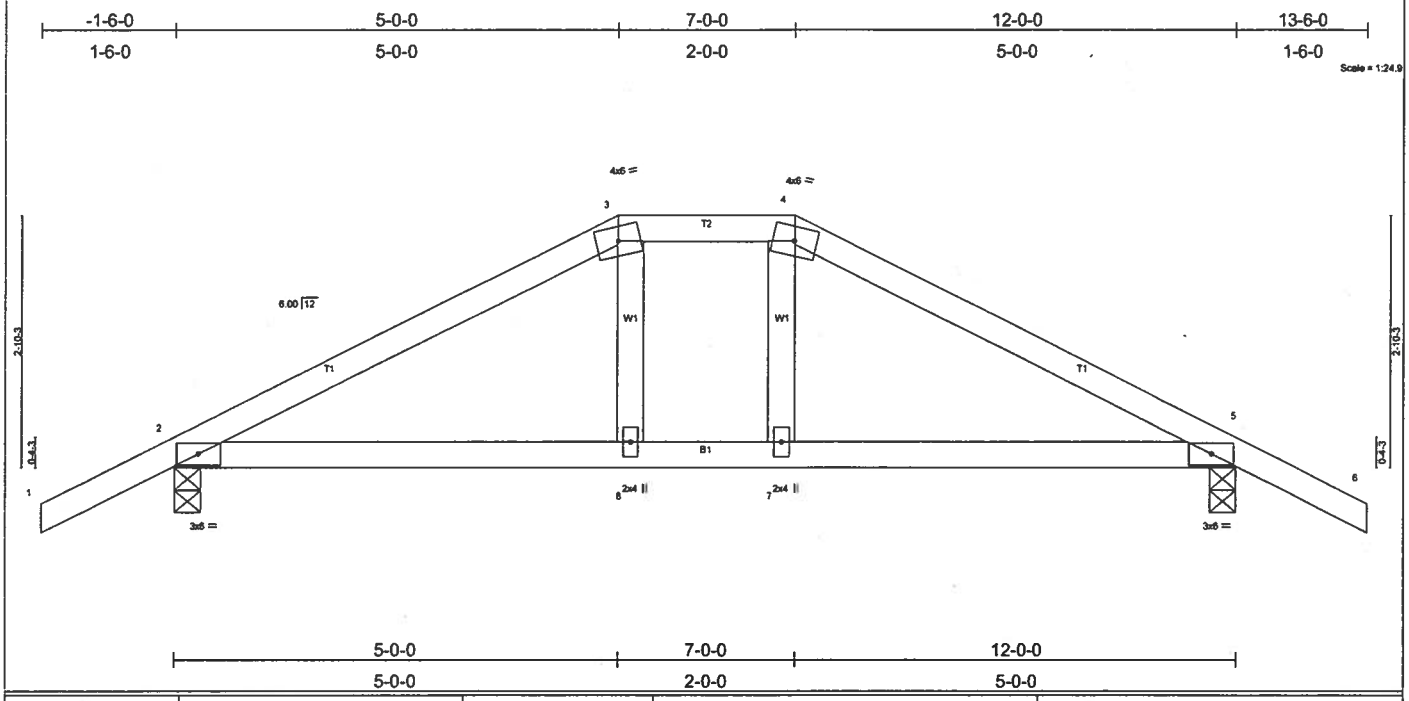

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.05	2-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.08	2-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.13	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 50 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-11 oc bracing.

REACTIONS (lb/size) 2=880/0-3-8, 5=880/0-3-8
Max Horz 2=64(load case 4)
Max Uplift2=-554(load case 4), 5=-554(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1340/714, 3-4=-1155/679, 4-5=-1340/713, 5-6=0/35
BOT CHORD 2-8=-569/1134, 7-8=-579/1155, 5-7=-567/1134
WEBS 3-8=-212/415, 4-7=-212/415

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 554 lb uplift at joint 2 and 554 lb uplift at joint 5.
5) Girder carries hip end with 5-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 245 lb down and 126 lb up at 7-0-0, and 245 lb down and 126 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-91(F=-37), 4-6=-54, 2-8=-30, 7-8=-50(F=-20), 5-7=-30
Concentrated Loads (lb)
Vert: 8=-245(F) 7=-245(F)

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Dwg.#1228051116

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T02	COMMON	3	1	Job Reference (optional)

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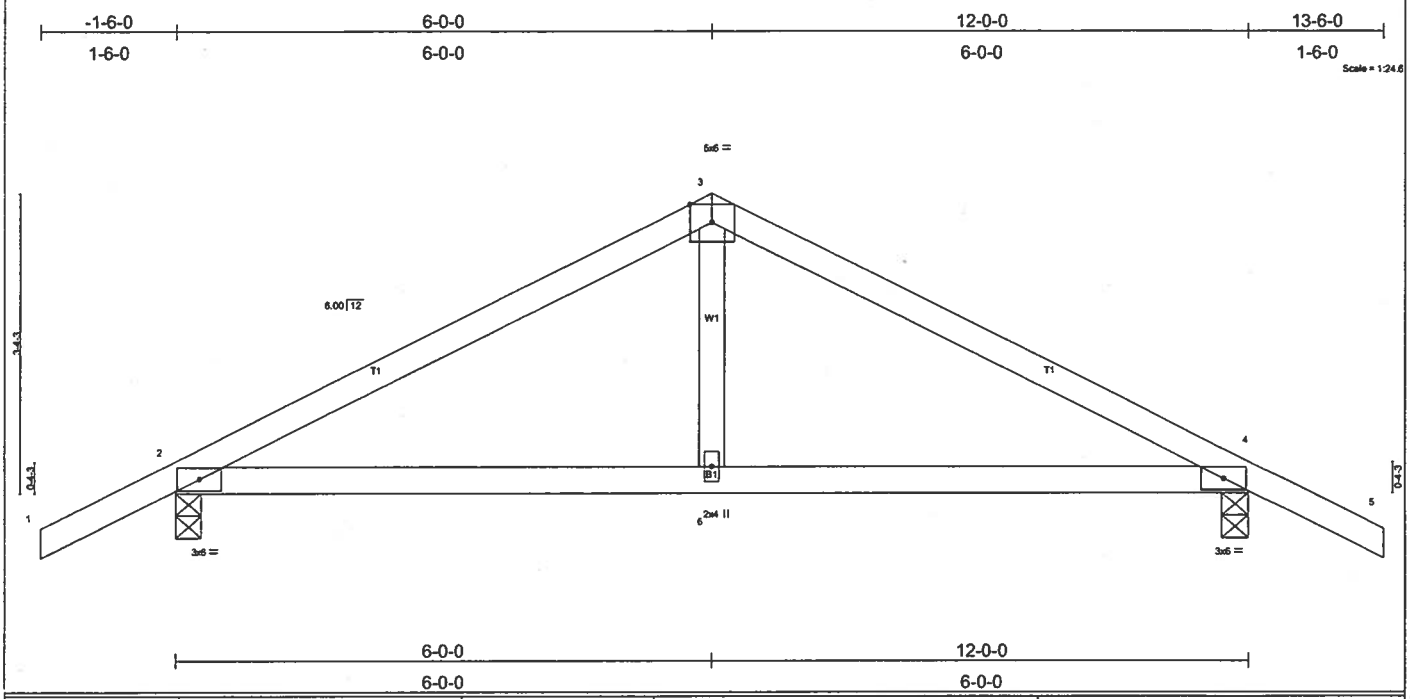

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.09	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.07	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 47 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 8-3-13 oc bracing.

REACTIONS (lb/size) 2=581/0-3-8, 4=581/0-3-8
Max Horz 2=70(load case 5)
Max Uplift2=-404(load case 5), 4=-404(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-684/765, 3-4=-684/765, 4-5=0/35
BOT CHORD 2-6=-536/551, 4-6=-536/551
WEBS 3-6=-371/217

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch 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.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 2 and 404 lb uplift at joint 4.

LOAD CASE(S) Standard

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Dwg.#1228051117

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T03A	COMMON	1	2	Job Reference (optional)

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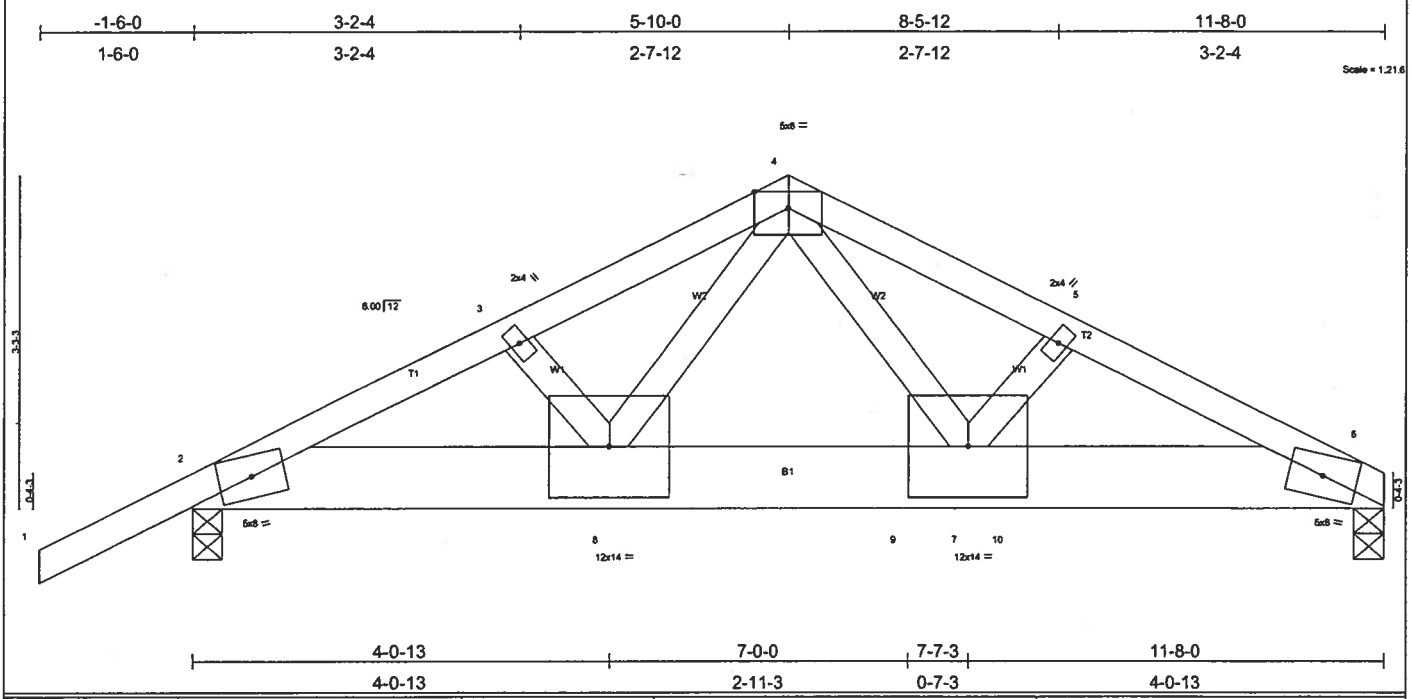

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.12	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 142 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=4987/0-3-8, 2=2439/0-3-8
Max Horz 2=95(load case 4)
Max Uplift6=-1858(load case 5), 2=-961(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/41, 2-3=-4979/1807, 3-4=-4899/1811, 4-5=-7567/2838, 5-6=-7647/2844
BOT CHORD 2-8=-1611/4425, 8-9=-1398/3919, 7-9=-1398/3919, 7-10=-2517/6840, 6-10=-2517/6840
WEBS 3-8=-84/101, 4-8=-292/867, 4-7=-2018/5356, 5-7=-122/119

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 3 rows at 0-4-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1858 lb uplift at joint 6 and 961 lb uplift at joint 2.
6) Girder carries tie-in span(s): 39-8-0 from 8-0-0 to 11-8-0
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3618 lb down and 1366 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-10=-30, 6-10=-815(F=-785)
Concentrated Loads (lb)
Vert: 9=-3618(F)

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Dwg.#1228051118

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T03G	COMMON	1	1	Job Reference (optional)

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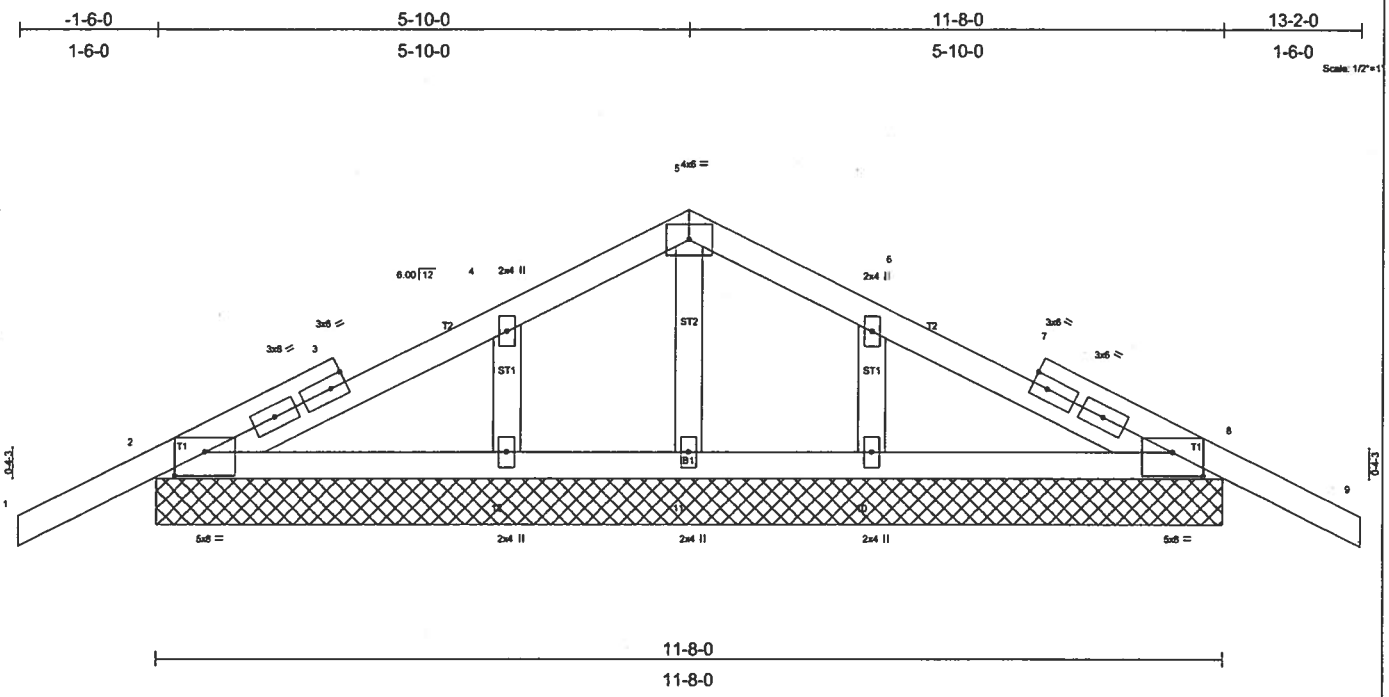

Plate Offsets (X,Y): [2:0-4-0,0-3-1], [8:0-4-0,0-3-1]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.00	9	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 54 lb	

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

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

REACTIONS (lb/size) 2=325/11-8-0, 8=325/11-8-0, 11=188/11-8-0, 12=394/11-8-0, 10=394/11-8-0
Max Horz 2=65(load case 5)
Max Uplift2=-185(load case 5), 8=-195(load case 6), 11=-28(load case 5), 12=-155(load case 5), 10=-157(load case 6)
Max Grav 2=330(load case 9), 8=330(load case 10), 11=188(load case 1), 12=396(load case 9), 10=396(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-5/56, 2-3=-43/66, 3-4=-48/141, 4-5=0/93, 5-6=0/93, 6-7=-24/141, 7-8=-20/66, 8-9=-5/56
BOT CHORD 2-12=-62/122, 11-12=-62/122, 10-11=-62/122, 8-10=-62/122
WEBS 5-11=-168/37, 4-12=-284/226, 6-10=-284/226

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 2, 195 lb uplift at joint 8, 28 lb uplift at joint 11, 155 lb uplift at joint 12 and 157 lb uplift at joint 10.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-87(F=-33), 5-9=-87(F=-33), 2-8=-30

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Dwg.#1228051119

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T04	COMMON	2	1	Job Reference (optional)

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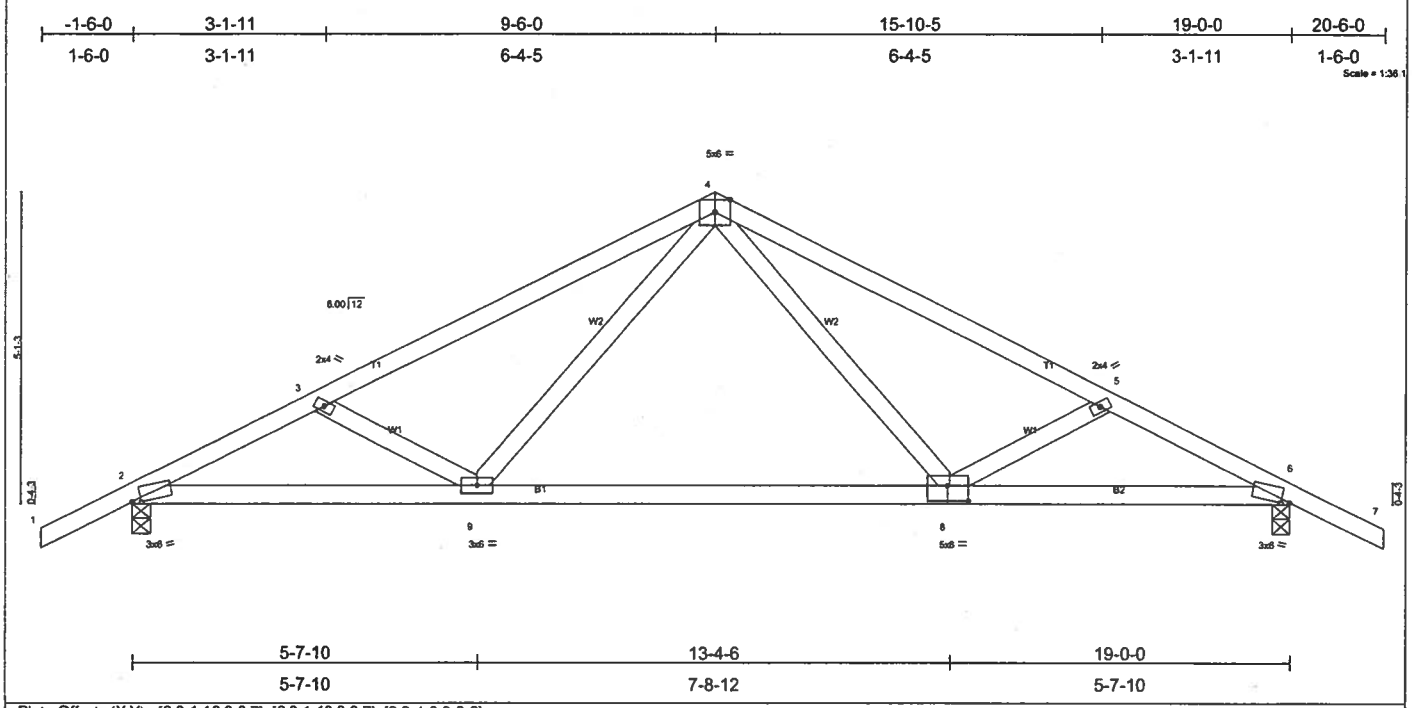

Plate Offsets (X,Y): [2:0-1-13,0-0-7], [6:0-1-13,0-0-7], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.28	8-9	>793	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.46	8-9	>487	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 92 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 4-5-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-10-10 oc bracing.

REACTIONS (lb/size) 2=1068/0-3-8, 6=1068/0-3-8
Max Horz 2=-95(load case 6)
Max Uplift2=-424(load case 5), 6=-424(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1886/822, 3-4=-1714/722, 4-5=-1714/722, 5-6=-1886/822, 6-7=0/35
BOT CHORD 2-9=-622/1630, 8-9=-292/1038, 6-8=-622/1630
WEBS 3-9=-223/229, 4-9=-210/712, 4-8=-210/712, 5-8=-223/229

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 424 lb uplift at joint 2 and 424 lb uplift at joint 6.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-9=-30, 8-9=-80(F=-50), 6-8=-30

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Dwg.#1228051120

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T04A	COMMON	7	1	Job Reference (optional)

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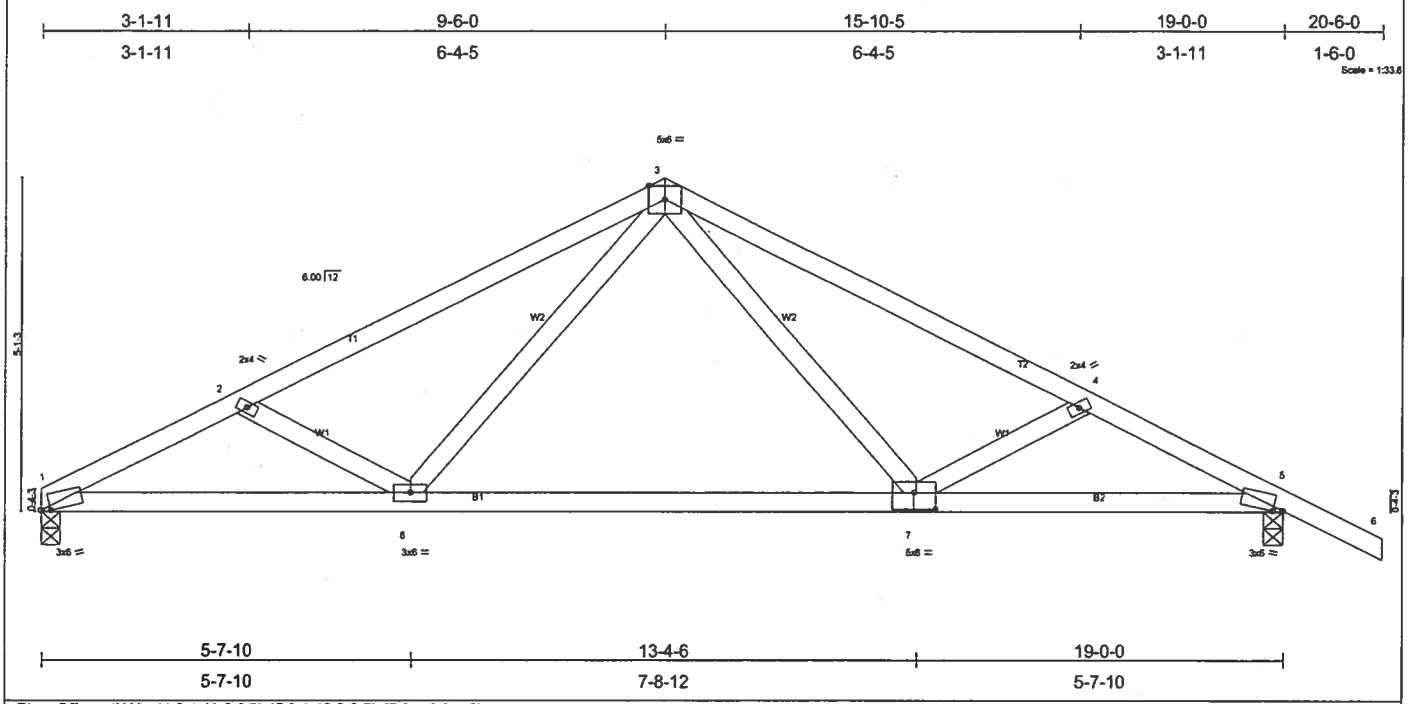

Plate Offsets (X,Y): [1:0-1-12,0-0-7], [5:0-1-12,0-0-7], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.28	7-8	>797	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.46	7-8	>489	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(TL)	0.04	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 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 4-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-8 oc bracing.

REACTIONS (lb/size) 1=975/0-3-8, 5=1072/0-3-8
Max Horz 1=-113(load case 6)
Max Uplift1=-327(load case 5), 5=-426(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1919/878, 2-3=-1737/761, 3-4=-1721/734, 4-5=-1892/834, 5-6=0/35
BOT CHORD 1-8=-684/1666, 7-8=-305/1045, 5-7=-633/1635
WEBS 2-8=-241/260, 3-8=-245/733, 3-7=-207/710, 4-7=-222/229

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 1 and 426 lb uplift at joint 5.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 1-8=-30, 7-8=-80(F=-50), 5-7=-30

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Dwg.#1228051121

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T04B	SPECIAL	1	1	Job Reference (optional)

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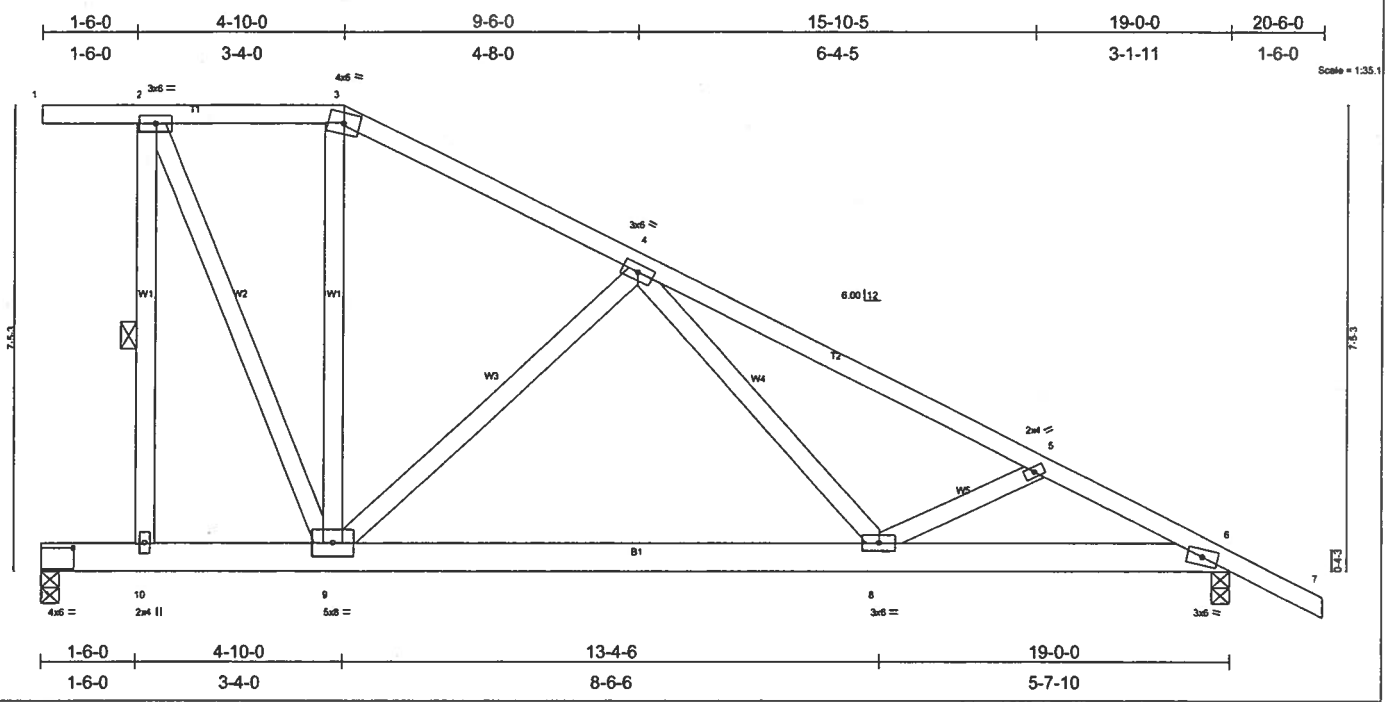

Plate Offsets (X,Y): [8:12-10-3,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.11	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.17	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 131 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-14 oc bracing.
WEBS 1 Row at midpt 2-10

REACTIONS (lb/size) 11=790/0-3-8, 6=879/0-3-8
Max Horz 11=-377(load case 6)
Max Uplift11=-288(load case 6), 6=-324(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=-427/214, 3-4=-546/196, 4-5=-1255/363, 5-6=-1493/523, 6-7=0/39
BOT CHORD 10-11=0/424, 9-10=0/424, 8-9=-48/786, 6-8=-378/1325
WEBS 2-9=-540/1079, 3-9=0/60, 4-8=-75/424, 4-9=-503/359, 5-8=-307/322, 2-10=-1174/645

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 11 and 324 lb uplift at joint 6.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051122

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T04G	COMMON	1	1	Job Reference (optional)

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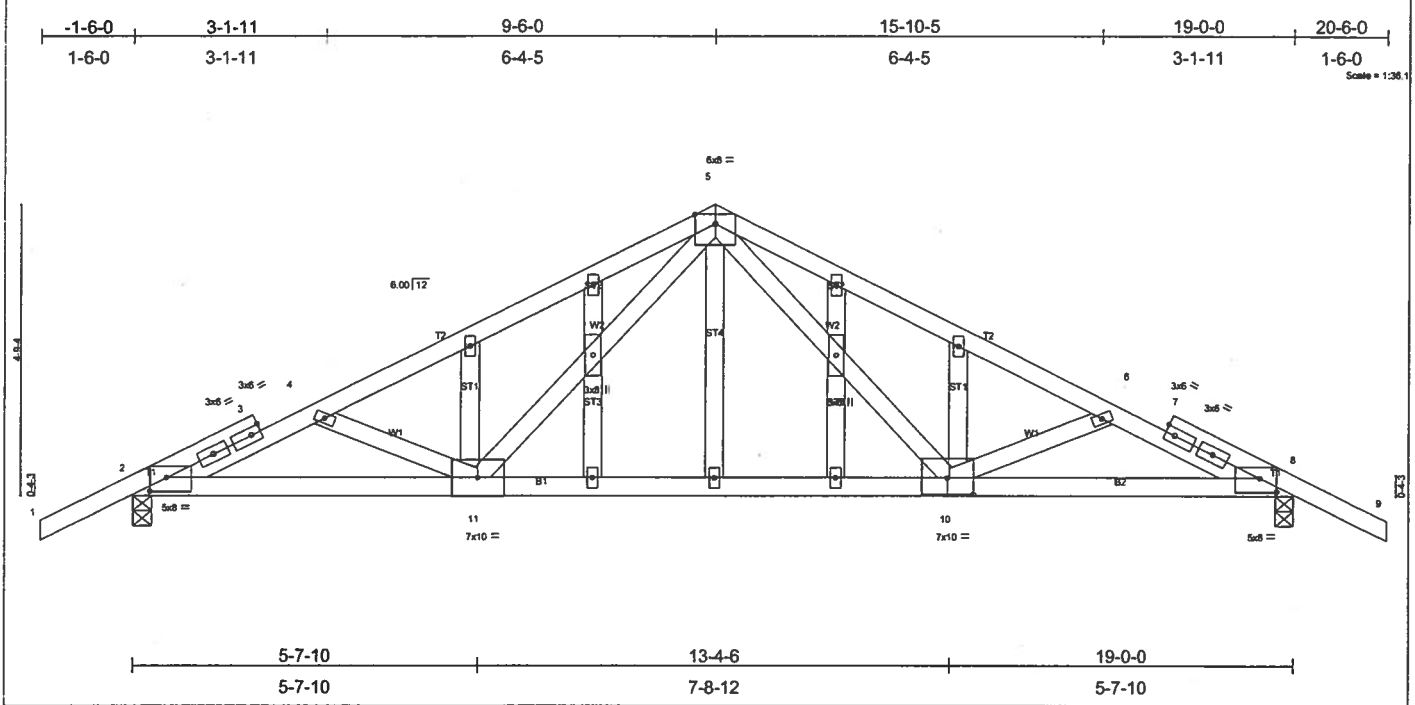

Plate Offsets (X,Y): [2:0-3-4,0-2-12], [8:0-3-4,0-2-12], [10:0-5-0,0-3-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.41	Vert(LL)	-0.14	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.23	10-11	>957	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.18	Horz(TL)	0.04	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 116 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-10 oc bracing.

REACTIONS (lb/size) 2=985/0-3-8, 8=985/0-3-8
Max Horz 2=-90(load case 6)
Max Uplift2=-394(load case 5), 8=-394(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/42, 2-3=-1956/848, 3-4=-1885/848, 4-5=-1546/618, 5-6=-1546/618, 6-7=-1885/848, 7-8=-1956/848, 8-9=0/42
BOT CHORD 2-11=-699/1782, 10-11=-259/938, 8-10=-699/1782
WEBS 4-11=-542/379, 5-11=-143/571, 5-10=-143/571, 6-10=-542/379

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 394 lb uplift at joint 2 and 394 lb uplift at joint 8.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-64(F=-10), 5-9=-64(F=-10), 2-8=-30

DECEMBER 28, 2005 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.#1228051123

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T05	HIP	1	2	Job Reference (optional)

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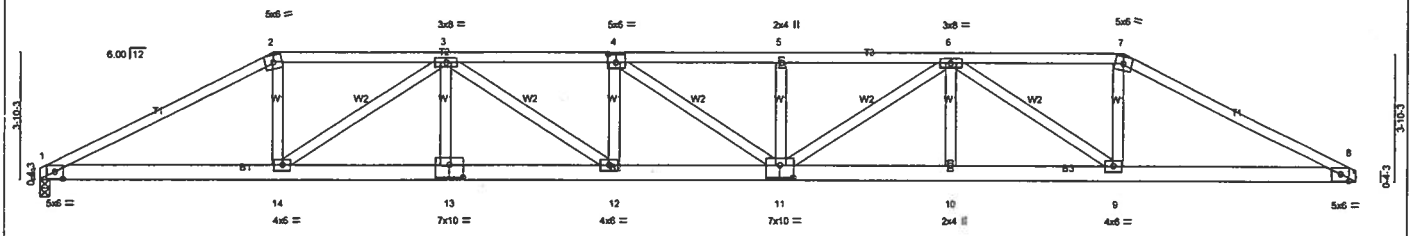
3-9-4	7-0-0	12-2-10	17-3-9	22-4-7	27-5-6	32-8-0	35-10-12	39-8-0
3-9-4	3-2-12	5-2-10	5-0-14	5-0-14	5-0-14	5-2-10	3-2-12	3-9-4

Scale = 1:68.6



3-9-4	7-0-0	12-2-10	17-3-9	22-4-7	27-5-6	32-8-0	35-10-12	39-8-0
3-9-4	3-2-12	5-2-10	5-0-14	5-0-14	5-0-14	5-2-10	3-2-12	3-9-4

Plate Offsets (X,Y): [1:0-3-0,0-2-9], [4:0-2-12,0-3-0], [8:0-3-0,0-2-9], [11:0-5-0,0-4-8], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.48	11-12	>975	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.78	11-12	>610	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.49	Horz(TL)	0.15	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 449 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-9-11 oc bracing.

REACTIONS (lb/size) 1=3618/0-3-8, 8=3618/Mechanical
Max Horz 1=50(load case 3)
Max Uplift1=-1410(load case 3), 8=-1409(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-6857/2799, 2-3=-6181/2582, 3-4=-10129/4363, 4-5=-10107/4350, 5-6=-10113/4355, 6-7=-6194/2588, 7-8=-6869/2804
BOT CHORD 1-14=-2495/6074, 13-14=-3725/8763, 12-13=-3722/8771, 11-12=-4319/10135, 10-11=-3687/8781, 9-10=-3687/8781, 8-9=-2451/6087
WEBS 2-14=-951/2552, 3-14=-3229/1508, 3-13=0/253, 3-12=-749/1673, 4-12=-596/478, 4-11=-80/43, 5-11=-583/474, 6-11=-729/1638, 6-10=0/276, 6-9=-3235/1507, 7-9=-950/2550

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1410 lb uplift at joint 1 and 1409 lb uplift at joint 8.
8) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 7-0-0; 7-0-0 from 32-8-0 to 39-8-0
9) Girder carries hip end with 7-0-0 end setback.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-7=-118(F=-64), 7-8=-54, 1-14=-130(F=-100), 9-14=-65(F=-35), 8-9=-130(F=-100)

DECEMBER 28, 2005 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.#1228051124

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T06	HIP	1	1	Job Reference (optional)

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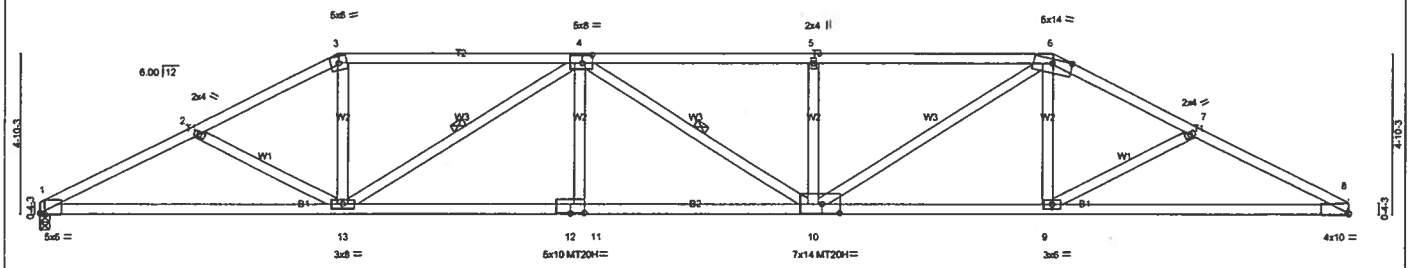
4-9-4	9-0-0	16-3-4	23-4-12	30-8-0	34-10-12	'39-8-0
4-9-4	4-2-12	7-3-4	7-1-8	7-3-4	4-2-12	4-9-4

Scale = 1:66.8



9-0-0	16-3-4	23-4-12	30-8-0	39-8-0
9-0-0	7-3-4	7-1-8	7-3-4	9-0-0

Plate Offsets (X,Y): [1:0-1-11,Edge], [4:0-3-12,0-3-0], [8:0-0-0,0-0-4], [10:0-6-5,0-3-5], [12:0-5-0,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.41	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.96	Vert(TL)	-0.67	10-11	>708	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.19	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 197 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-13, 4-10

REACTIONS (lb/size) 1=1657/0-3-8, 8=1657/Mechanical
Max Horz 1=-66(load case 3)
Max Uplift1=-456(load case 5), 8=-457(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3144/1333, 2-3=-2926/1222, 3-4=-2609/1158, 4-5=-3545/1534, 5-6=-3545/1534, 6-7=-2944/1230, 7-8=-3183/1351
BOT CHORD 1-13=-1113/2758, 12-13=-1303/3546, 11-12=-1303/3546, 10-11=-1304/3543, 9-10=-925/2606, 8-9=-1133/2804
WEBS 2-13=-205/221, 3-13=-296/954, 4-13=-1194/476, 4-11=0/202, 4-10=-69/73, 5-10=-394/278, 6-10=-478/1195, 6-9=-64/378, 7-9=-239/236

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint 1 and 457 lb uplift at joint 8.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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

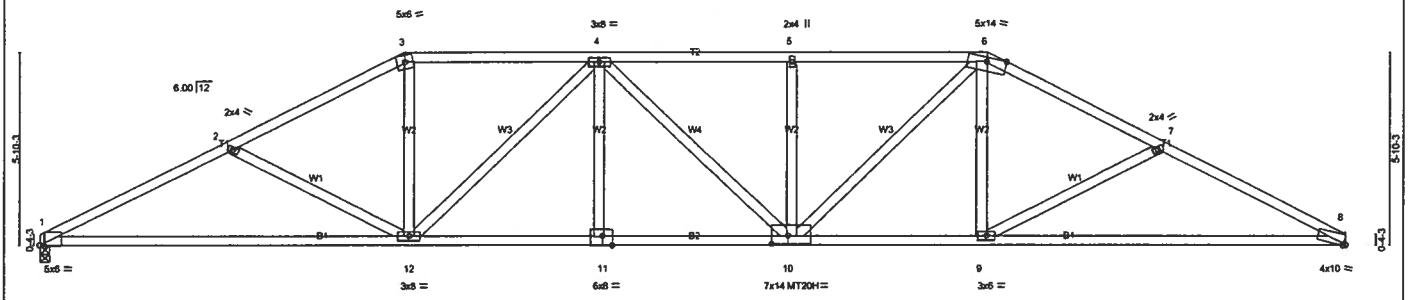
Dwg.#1228051125

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T07	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:46 2005 Page 1

5-9-4	11-0-0	16-10-11	22-9-5	28-8-0	33-10-12	39-8-0
5-9-4	5-2-12	5-10-11	5-10-11	5-10-11	5-2-12	5-9-4

Scale = 1:66.6



11-0-0	16-10-11	22-9-5	28-8-0	39-8-0
11-0-0	5-10-11	5-10-11	5-10-11	11-0-0

Plate Offsets (X,Y): [1:0-1-11,Edge], [8:0-0-13,Edge], [10:0-5-14,0-3-0], [11:0-3-10,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.48	8-9	>982	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-0.81	8-9	>584	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(TL)	0.18	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 205 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 1=1657/0-3-8, 8=1657/Mechanical
Max Horz 1=-81(load case 3)
Max Uplift1=-475(load case 5), 8=-476(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3091/1343, 2-3=-2770/1177, 3-4=-2439/1119, 4-5=-2914/1321, 5-6=-2920/1325, 6-7=-2783/1182, 7-8=-3122/1356
BOT CHORD 1-12=-1112/2718, 11-12=-1038/2907, 10-11=-1037/2910, 9-10=-836/2438, 8-9=-1127/2754
WEBS 2-12=-345/318, 3-12=-291/913, 4-12=-756/330, 4-11=0/135, 4-10=-78/87, 5-10=-330/229, 6-10=-334/764, 6-9=-102/475, 7-9=-371/330

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 1 and 476 lb uplift at joint 8.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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

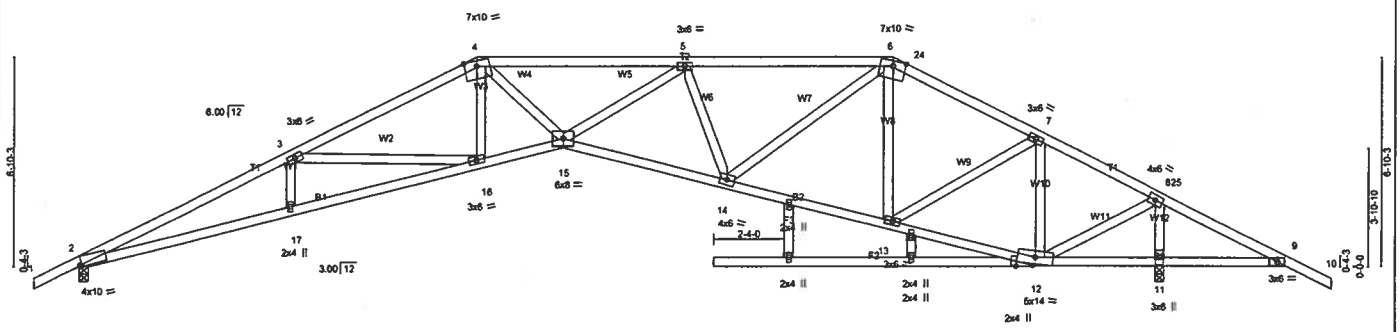
Dwg.#1228051126

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T08	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:47 2005 Page 1

1-6-0	6-10-15	13-0-0	19-10-0	26-8-0	31-4-8	35-2-0	35-6-4	39-8-0	41-2-0
1-6-0	6-10-15	6-1-1	6-10-0	6-10-0	4-8-8	3-9-8	0-4-4	4-1-12	1-6-0

Scale = 1:72.3



6-10-15	13-0-0	15-10-0	21-3-0	26-8-0	31-4-8	35-6-4	39-8-0
6-10-15	6-1-1	2-10-0	5-5-0	5-5-0	4-8-8	4-1-12	4-1-12

Plate Offsets (X,Y): [2:0-0-14,Edge], [19:0-0-4,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	0.97	Vert(LL)	-0.60	14-15	>710	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.96	14-15	>443	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.57	Horz(TL)	0.59	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 223 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 4 SYP No.1D, B3 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W11 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-0-6 oc bracing.
JOINTS 1 Brace at Jt(s): 13

REACTIONS (lb/size) 2=1629/0-3-8, 11=2711/0-3-8
Max Horz 2=-119(load case 6)
Max Uplift2=-590(load case 5), 11=-1216(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-5357/2093, 3-4=-4385/1697, 4-5=-5111/1963, 5-6=-3428/1464, 6-24=-2304/1081, 7-24=-2566/1192, 7-25=-1909/889, 8-25=-1967/933, 8-9=-558/521, 9-10=0/35
BOT CHORD 2-17=-1754/4848, 16-17=-1756/4845, 15-16=-1234/3995, 14-15=-1280/3978, 13-14=-696/2235, 12-13=-536/1630, 11-12=-404/592, 9-11=-404/592
WEBS 3-17=0/199, 3-16=-827/506, 4-16=-138/413, 4-15=-512/1694, 5-15=-401/1517, 5-14=-1264/498, 6-14=-499/1591, 6-13=-335/168, 7-13=-198/690, 7-12=-1301/757, 8-12=-1272/2257, 8-11=-2560/1606

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 590 lb uplift at joint 2 and 1216 lb uplift at joint 11.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 101 lb up at 35-2-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-24=-54, 10-25=-54, 2-15=-30, 12-15=-30, 9-12=-30
Concentrated Loads (lb)
Vert: 25=-110(F)
Trapezoidal Loads (plf)
Vert: 24=-119(F=-65)-to-25=-174(F=-120)

DECEMBER 28, 2005 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

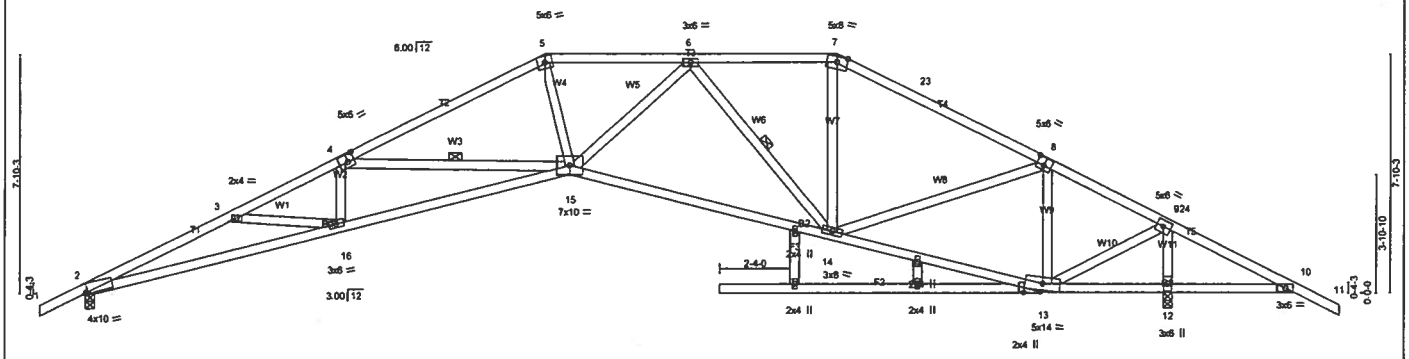
Dwg.#1228051127

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T09	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:48 2005 Page 1

1-6-0	7-10-15	15-0-0	19-10-0	24-8-0	31-4-8	35-2-0	39-8-0	41-2-0
1-6-0	7-10-15	7-1-1	4-10-0	4-10-0	6-8-8	3-9-8	4-6-0	1-6-0

Scale = 1:72.3



8-3-15	15-10-0	24-8-0	31-4-8	35-6-4	39-8-0
8-3-15	7-6-1	8-10-0	6-8-8	4-1-12	4-1-12

Plate Offsets (X,Y): [2:0-0-14,Edge], [4:0-2-8,0-3-0], [8:0-3-0,0-3-4], [18:0-0-4,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	0.86	Vert(LL)	-0.52	15-16	>816	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.83	15-16	>509	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.46	Horz(TL)	0.50	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 226 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* T1 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.2 *Except* B1 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except* W10 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-10 oc bracing.
WEBS 1 Row at midpt 4-15, 6-14

REACTIONS (lb/size) 2=1629/0-3-8, 12=2711/0-3-8
Max Horz 2=-133(load case 6)
Max Uplift2=-585(load case 5), 12=-1065(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-5220/2018, 3-4=-5086/1904, 4-5=-3993/1398, 5-6=-3818/1403, 6-7=-2222/953, 7-23=-2406/961, 8-23=-2663/1003, 8-24=-1934/686, 9-24=-1991/706, 9-10=-578/538, 10-11=0/35
BOT CHORD 2-16=-1700/4734, 15-16=-1542/4703, 14-15=-778/3093, 13-14=-410/1698, 12-13=-424/616, 10-12=-424/616
WEBS 4-16=0/245, 4-15=-1044/608, 5-15=-354/1427, 6-15=-295/1151, 6-14=-1231/381, 7-14=-119/691, 8-14=-146/620, 8-13=-1316/657, 9-13=-1126/2321, 9-12=-2567/1337, 3-16=-40/154

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 585 lb uplift at joint 2 and 1065 lb uplift at joint 12.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 48 lb up at 35-2-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-7=-54, 7-23=-54, 11-24=-54, 2-15=-30, 13-15=-30, 10-13=-30
Concentrated Loads (lb)
Vert: 24=-110(F)
Trapezoidal Loads (plf)
Vert: 23=-119(F=-65)-to-24=-174(F=-120)

DECEMBER 28, 2005 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

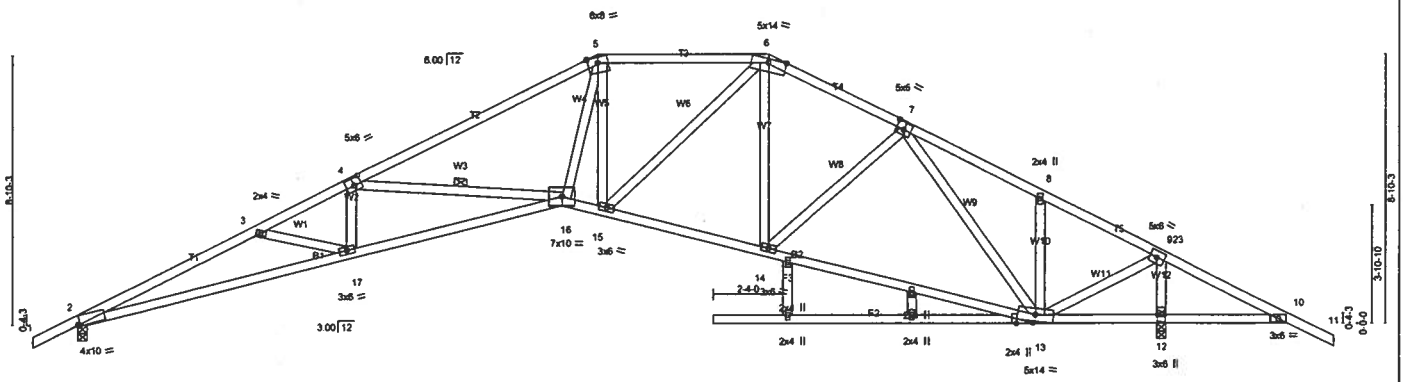
Dwg.#1228051128

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T10	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:49 2005 Page 1

1-6-0	6-0-0	9-0-0	17-0-0	22-8-0	27-0-4	31-4-8	35-2-0	39-8-0	41-2-0
1-6-0	6-0-0	3-0-0	8-0-0	5-8-0	4-4-4	4-4-4	3-9-8	4-6-0	1-6-0

Scale = 1:72.3



9-0-0	15-10-0	17-0-0	22-8-0	31-4-8	35-6-4	39-8-0
9-0-0	6-10-0	1-2-0	5-8-0	8-8-8	4-1-12	4-1-12

Plate Offsets (X,Y): [2:0-0-14,Edge], [4:0-3-0,0-3-0], [7:0-3-0,0-3-0], [13:0-0-4,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	0.90	Vert(LL)	-0.53	16-17	>807	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(TL)	-0.84	16-17	>502	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.49	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 236 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
T2 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-6 oc bracing. Except:
1 Row at midpt 13-14
WEBS 1 Row at midpt 4-16

REACTIONS (lb/size) 2=1631/0-3-8, 12=2718/0-3-8
Max Horz 2=-147(load case 6)
Max Uplift2=-598(load case 5), 12=-1083(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-5245/2033, 3-4=-5045/1924, 4-5=-3830/1365, 5-6=-2863/1176, 6-7=-2447/999, 7-8=-1948/783, 8-23=-1910/657, 9-23=-1968/677, 9-10=-564/539, 10-11=0/35
BOT CHORD 2-17=-1706/4767, 16-17=-1540/4646, 15-16=-707/2976, 14-15=-462/2218, 13-14=-570/2196, 12-13=-420/600, 10-12=-420/600
WEBS 3-17=-111/163, 4-17=-37/350, 4-16=-1162/677, 5-16=-571/2070, 5-15=-777/275, 6-15=-334/997, 6-14=-121/264, 7-14=-33/198, 7-13=-852/343, 8-13=-677/421, 9-13=-1072/2292, 9-12=-2618/1343

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 598 lb uplift at joint 2 and 1083 lb uplift at joint 12.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 48 lb up at 35-2-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-6=-54, 6-7=-54, 11-23=-54, 2-16=-30, 13-16=-30, 10-13=-30
Concentrated Loads (lb)
Vert: 23=-110(F)
Trapezoidal Loads (plf)
Vert: 7=-118(F=-64)-to-23=-174(F=-120)

DECEMBER 28, 2005 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

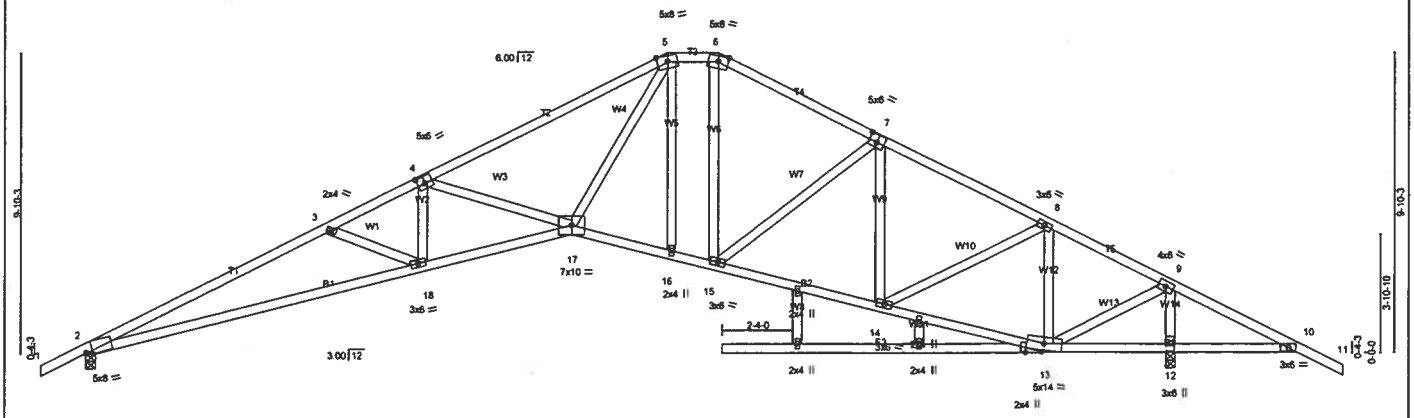
Dwg.#1228051129

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T11	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:50 2005 Page 1

1-6-0	8-0-0	11-0-0	19-0-0	20-8-0	26-0-4	31-4-8	35-6-4	39-8-0	41-2-0
1-6-0	8-0-0	3-0-0	8-0-0	1-8-0	5-4-4	5-4-4	4-1-12	4-1-12	1-6-0

Scale = 1:72.3



11-0-0	15-10-0	19-0-0	20-8-0	26-0-4	31-4-8	35-6-4	39-8-0
11-0-0	4-10-0	3-2-0	1-8-0	5-4-4	5-4-4	4-1-12	4-1-12

Plate Offsets (X,Y): [2:0-2-6,Edge], [4:0-3-0,0-3-0], [7:0-3-0,0-3-0], [20:0-0-4,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	0.92	Vert(LL)	-0.67	2-18	>638	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.85	Vert(TL)	-1.10	2-18	>388	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(TL)	0.49	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 236 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* T1 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.2 *Except* B1 2 X 4 SYP No.1D, B2 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-2-14 oc bracing.
JOINTS 1 Brace at Jt(s): 14

REACTIONS (lb/size) 2=1545/0-3-8, 12=1945/0-3-8
Max Horz 2=-161(load case 6)
Max Uplift2=-576(load case 5), 12=-804(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-4780/1856, 3-4=-4437/1683, 4-5=-3457/1261, 5-6=-1873/862, 6-7=-2129/891, 7-8=-2005/794, 8-9=-1285/429, 9-10=-587/562, 10-11=0/35
BOT CHORD 2-18=-1526/4357, 17-18=-1254/4067, 16-17=-397/1985, 15-16=-313/1802, 14-15=-389/1826, 13-14=-230/1121, 12-13=-452/625, 10-12=-452/625
WEBS 3-18=-273/281, 4-18=-117/458, 4-17=-1003/571, 5-17=-708/2273, 5-16=-677/325, 6-15=-275/593, 7-15=-79/281, 7-14=-415/234, 8-14=-245/734, 8-13=-910/476, 9-13=-884/1751, 9-12=-1802/1025

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 576 lb uplift at joint 2 and 804 lb uplift at joint 12.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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

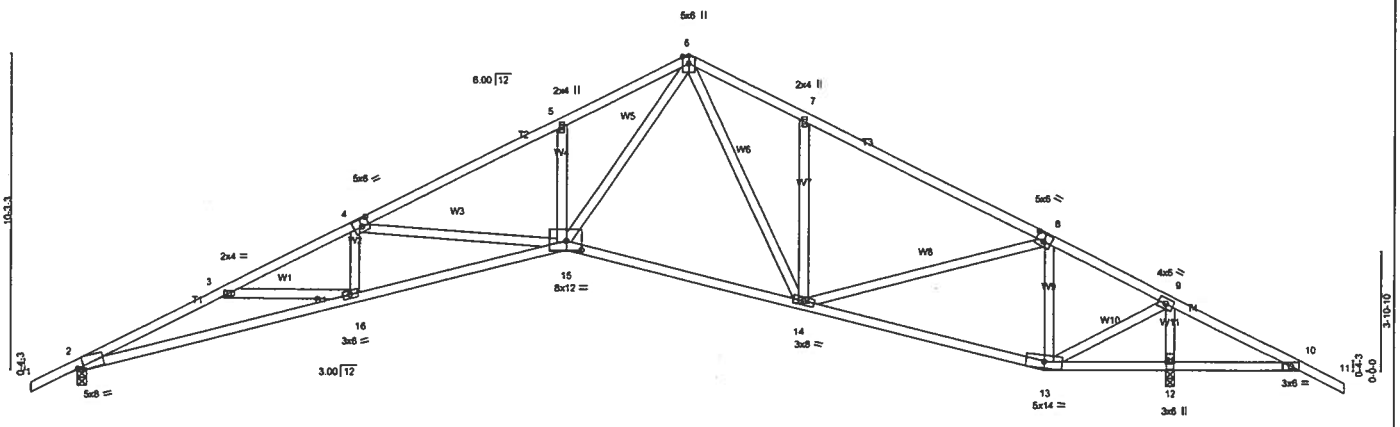
Dwg.#1228051130

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T12	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:50 2005 Page 1

1-6-0	4-10-15	9-0-0	15-10-0	19-10-0	23-7-4	31-4-8	35-6-4	39-8-0	41-2-0
1-6-0	4-10-15	4-1-1	6-10-0	4-0-0	3-9-4	7-9-4	4-1-12	4-1-12	1-6-0

Scale = 1:71.5



9-0-0	15-10-0	23-7-4	31-4-8	35-6-4	39-8-0
9-0-0	6-10-0	7-9-4	7-9-4	4-1-12	4-1-12

Plate Offsets (X,Y): [2:0-2-6,Edge], [4:0-2-12,0-3-0], [8:0-3-0,0-3-0], [15:0-6-0,0-3-10]

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)	-0.50	15-16	>845	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.99	Vert(TL)	-0.80	15-16	>528	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(TL)	0.48	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 215 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 2=1545/0-3-8, 12=1945/0-3-8
Max Horz 2=-167(load case 6)
Max Uplift2=-579(load case 5), 12=-809(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-4883/1956, 3-4=-4670/1778, 4-5=-3575/1291, 5-6=-3543/1443, 6-7=-2143/1036, 7-8=-2171/852, 8-9=-1309/445, 9-10=-595/579, 10-11=0/35
BOT CHORD 2-16=-1645/4434, 15-16=-1413/4307, 14-15=-343/1815, 13-14=-253/1176, 12-13=-471/637, 10-12=-471/637
WEBS 3-16=-151/225, 4-16=-10/286, 4-15=-1048/598, 5-15=-314/328, 6-15=-902/2505, 6-14=-324/431, 7-14=-372/380, 8-14=-214/773, 8-13=-923/525, 9-13=-932/1809, 9-12=-1810/1018

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 579 lb uplift at joint 2 and 809 lb uplift at joint 12.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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

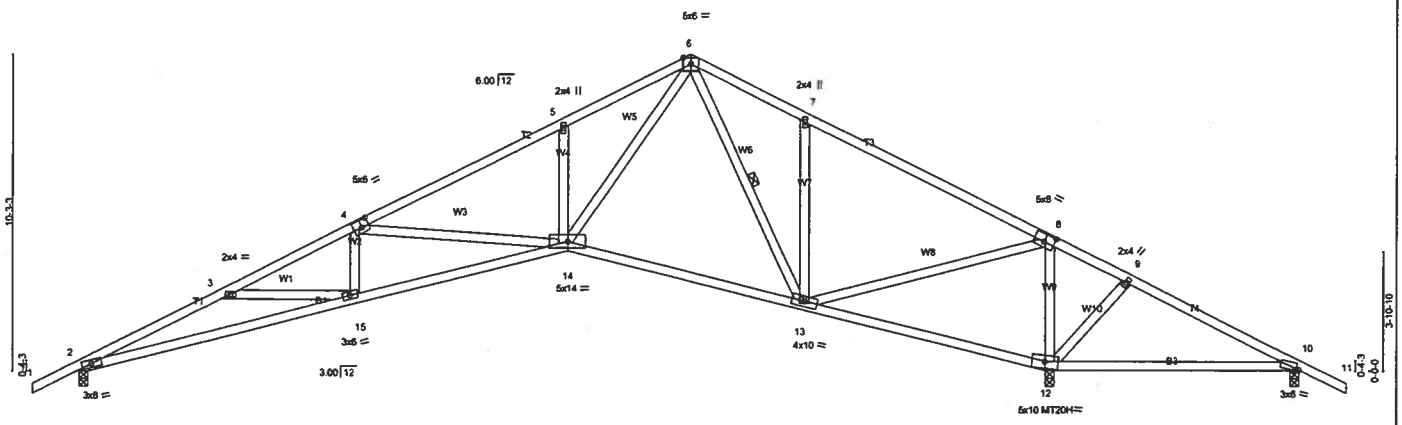
Dwg.#1228051131

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T13	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:51 2005 Page 1

1-6-0	4-10-15	9-0-0	15-10-0	19-10-0	23-7-4	31-4-8	34-0-0	39-8-0	41-2-0
1-6-0	4-10-15	4-1-1	6-10-0	4-0-0	3-9-4	7-9-4	2-7-8	5-8-0	1-6-0

Scale = 1:71.5



9-0-0	15-10-0	23-7-4	31-4-8	39-8-0
9-0-0	6-10-0	7-9-4	7-9-4	8-3-8

Plate Offsets (X,Y): [4:0-2-12,0-3-0], [8:0-4-0,0-3-0], [10:0-1-5,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.77	Vert(LL)	-0.35	2-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.75	Vert(TL)	0.19	10-12	>521	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.28	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 211 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 3-0-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-4-2 oc bracing.
WEBS 1 Row at midpt 6-13

REACTIONS (lb/size) 2=1158/0-3-8, 12=2825/0-3-8, 10=-498/0-3-8
Max Horz 2=-167(load case 6)
Max Uplift2=-454(load case 5), 12=-959(load case 5), 10=-615(load case 9)
Max Grav 2=1158(load case 1), 12=2825(load case 1), 10=116(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-3377/1421, 3-4=-3071/1203, 4-5=-1915/702, 5-6=-1888/855, 6-7=-504/440, 7-8=-527/255, 8-9=-656/1968, 9-10=-617/1843, 10-11=0/35
BOT CHORD 2-15=-1158/3070, 14-15=-904/2819, 13-14=0/701, 12-13=-1871/867, 10-12=-1566/660
WEBS 3-15=-251/269, 4-15=-21/314, 4-14=-1082/609, 5-14=-324/332, 6-14=-647/1772, 6-13=-756/192, 7-13=-376/382, 8-13=-701/2235, 8-12=-1959/841, 9-12=-215/201

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are MT20 plates unless otherwise indicated.
4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 454 lb uplift at joint 2, 959 lb uplift at joint 12 and 615 lb uplift at joint 10.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051132

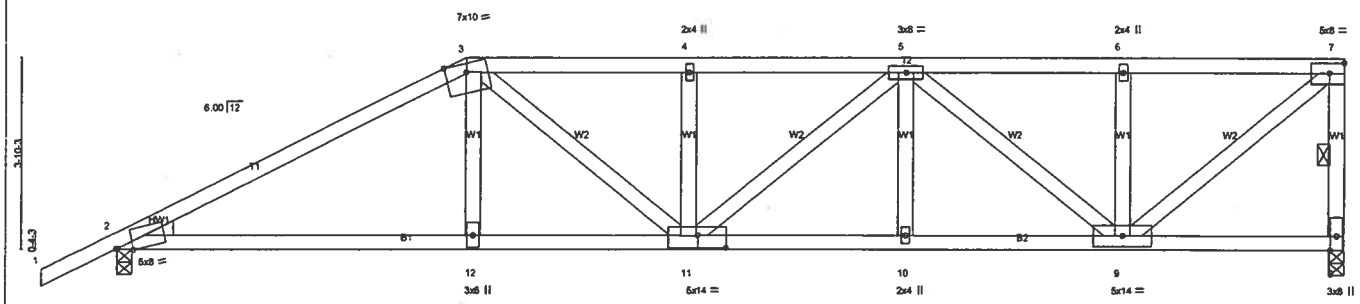
Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T14	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:52 2005 Page 1

-1-6-0 | 3-9-4 | 7-0-0 | 11-5-14 | 15-10-0 | 20-2-2 | 24-8-0

1-6-0 | 3-9-4 | 3-2-12 | 4-5-14 | 4-4-2 | 4-4-2 | 4-5-14

Scale = 1:44.2



3-9-4 | 7-0-0 | 11-5-14 | 15-10-0 | 20-2-2 | 24-8-0

3-9-4 | 3-2-12 | 4-5-14 | 4-4-2 | 4-4-2 | 4-5-14

Plate Offsets (X,Y): [2:0-3-13,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	0.65	Vert(LL)	-0.23	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.37	10-11	>797	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(TL)	0.12	8	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
WEDGE
Left: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-12 oc bracing.
WEBS 1 Row at midpt 7-8

REACTIONS (lb/size) 8=2284/0-3-8, 2=2119/0-3-8
Max Horz 2=210(load case 4)
Max Uplift8=-1027(load case 3), 2=-902(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-3948/1658, 3-4=-4068/1825, 4-5=-4068/1825, 5-6=-2376/1067, 6-7=-2376/1067, 7-8=-2133/1039
BOT CHORD 2-12=-1516/3440, 11-12=-1525/3474, 10-11=-1664/3711, 9-10=-1664/3711, 8-9=-34/74
WEBS 3-12=-237/817, 3-11=-447/757, 4-11=-492/448, 5-11=-220/461, 5-10=0/288, 5-9=-1725/771, 6-9=-520/437, 7-9=-1336/2976

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1027 lb uplift at joint 8 and 902 lb uplift at joint 2.
4) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-7=-118(F=-64), 2-12=-30, 8-12=-65(F=-35)
Concentrated Loads (lb)
Vert: 12=-539(F)

DECEMBER 28, 2005 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.#1228051133

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T15	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:52 2005 Page 1

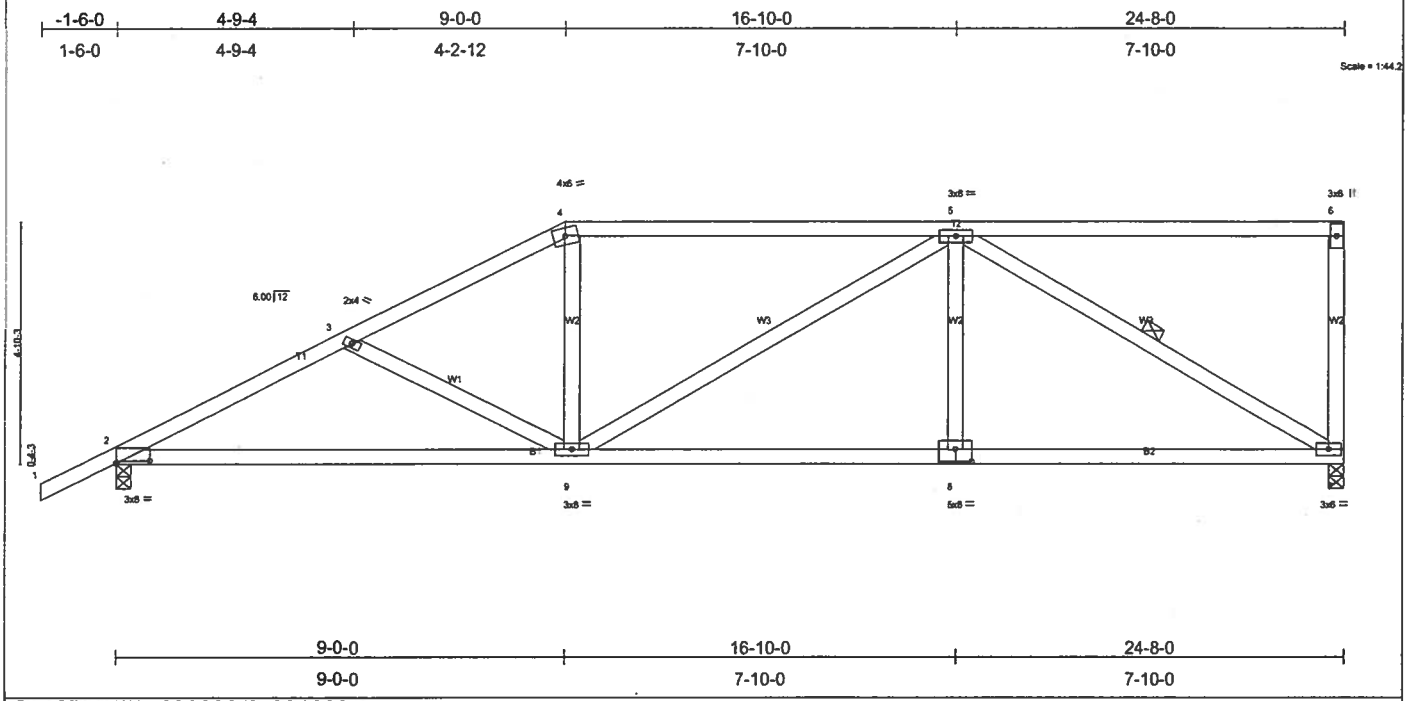


Plate Offsets (X,Y): [2:0-8-0,0-0-10], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.68	Vert(LL)	-0.17	2-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.30	2-9	>990	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 129 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 4-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-15 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS (lb/size) 7=1021/0-3-8, 2=1116/0-3-8
Max Horz 2=256(load case 5)
Max Uplift7=-369(load case 4), 2=-394(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1767/705, 3-4=-1536/602, 4-5=-1347/596, 5-6=-70/26, 6-7=-192/135
BOT CHORD 2-9=-780/1535, 8-9=-540/1272, 7-8=-540/1272
WEBS 3-9=-224/207, 4-9=-10/326, 5-9=-87/87, 5-8=0/221, 5-7=-1398/598

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 7 and 394 lb uplift at joint 2.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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

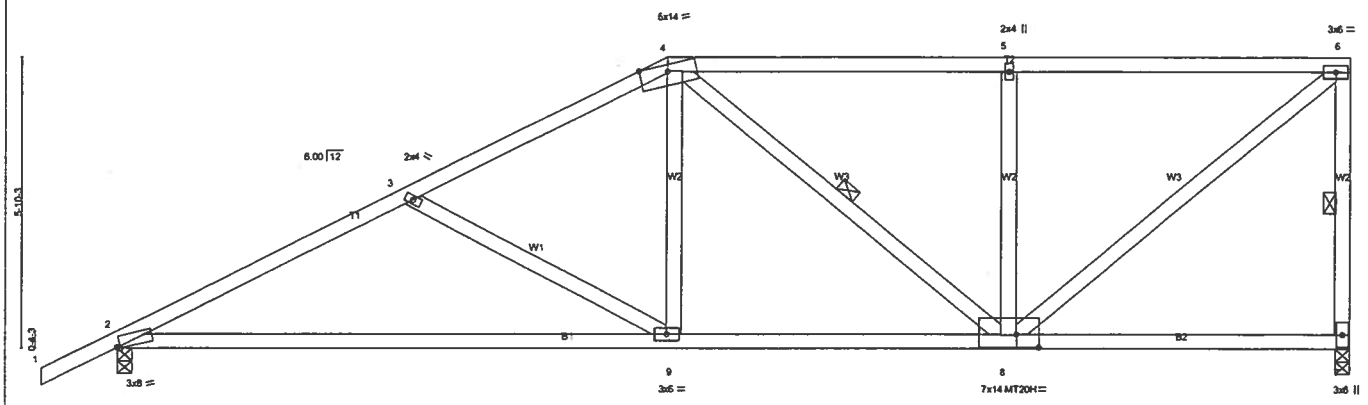
Dwg.#1228051134

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T16	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:53 2005 Page 1

-1-6-0 | 5-9-4 | 11-0-0 | 17-10-0 | 24-8-0
1-6-0 | 5-9-4 | 5-2-12 | 6-10-0 | 6-10-0

Scale = 1:44.2



5-9-4 | 11-0-0 | 17-10-0 | 24-8-0
5-9-4 | 5-2-12 | 6-10-0 | 6-10-0

Plate Offsets (X,Y): [2:0-0-10,Edge], [6:0-5-3,0-3-2]

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)	-0.36	2-9	>823	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.61	2-9	>480	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.04	7	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.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-8 oc bracing.
WEBS 1 Row at midpt 6-7, 4-8

REACTIONS (lb/size) 7=1021/0-3-8, 2=1116/0-3-8
Max Horz 2=302(load case 5)
Max Uplift7=-360(load case 4), 2=-401(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1698/682, 3-4=-1374/532, 4-5=-945/418, 5-6=-945/418, 6-7=-915/451
BOT CHORD 2-9=-800/1477, 8-9=-538/1182, 7-8=-15/42
WEBS 3-9=-349/301, 4-9=-88/469, 4-8=-306/154, 5-8=-392/283, 6-8=-524/1174

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 360 lb uplift at joint 7 and 401 lb uplift at joint 2.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051135

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T17	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:54 2005 Page 1

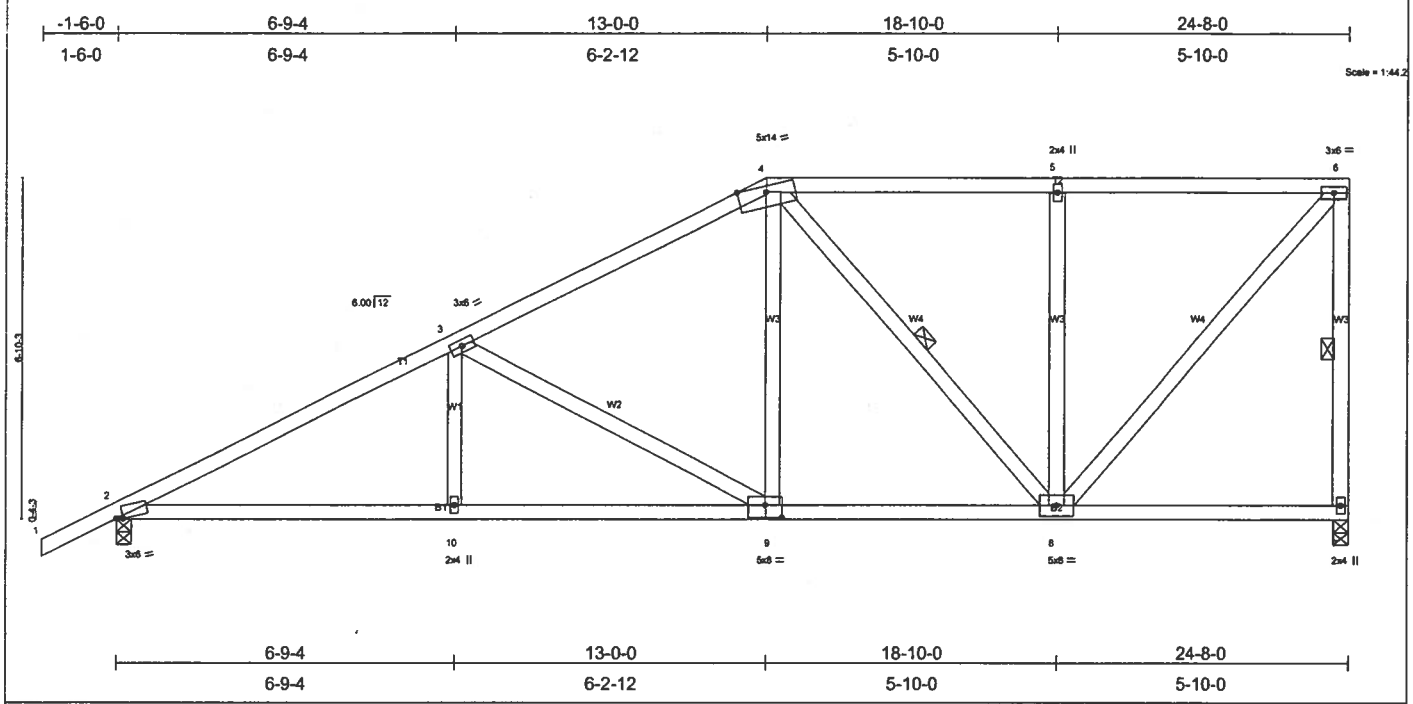


Plate Offsets (X,Y): [2:0-1-9,0-0-7], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.10	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.17	2-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 146 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 4-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-4 oc bracing.
WEBS 1 Row at midpt 6-7, 4-8

REACTIONS (lb/size) 7=1021/0-3-8, 2=1116/0-3-8
Max Horz 2=348(load case 5)
Max Uplift7=-350(load case 4), 2=-404(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1787/628, 3-4=-1167/462, 4-5=-715/324, 5-6=-714/324, 6-7=-938/463
BOT CHORD 2-10=-794/1522, 9-10=-794/1522, 8-9=-482/983, 7-8=-9/23
WEBS 3-10=0/222, 3-9=-624/358, 4-9=-135/470, 4-8=-404/237, 5-8=-324/243, 6-8=-481/1056

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 350 lb uplift at joint 7 and 404 lb uplift at joint 2.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051136

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T18	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:54 2005 Page 1

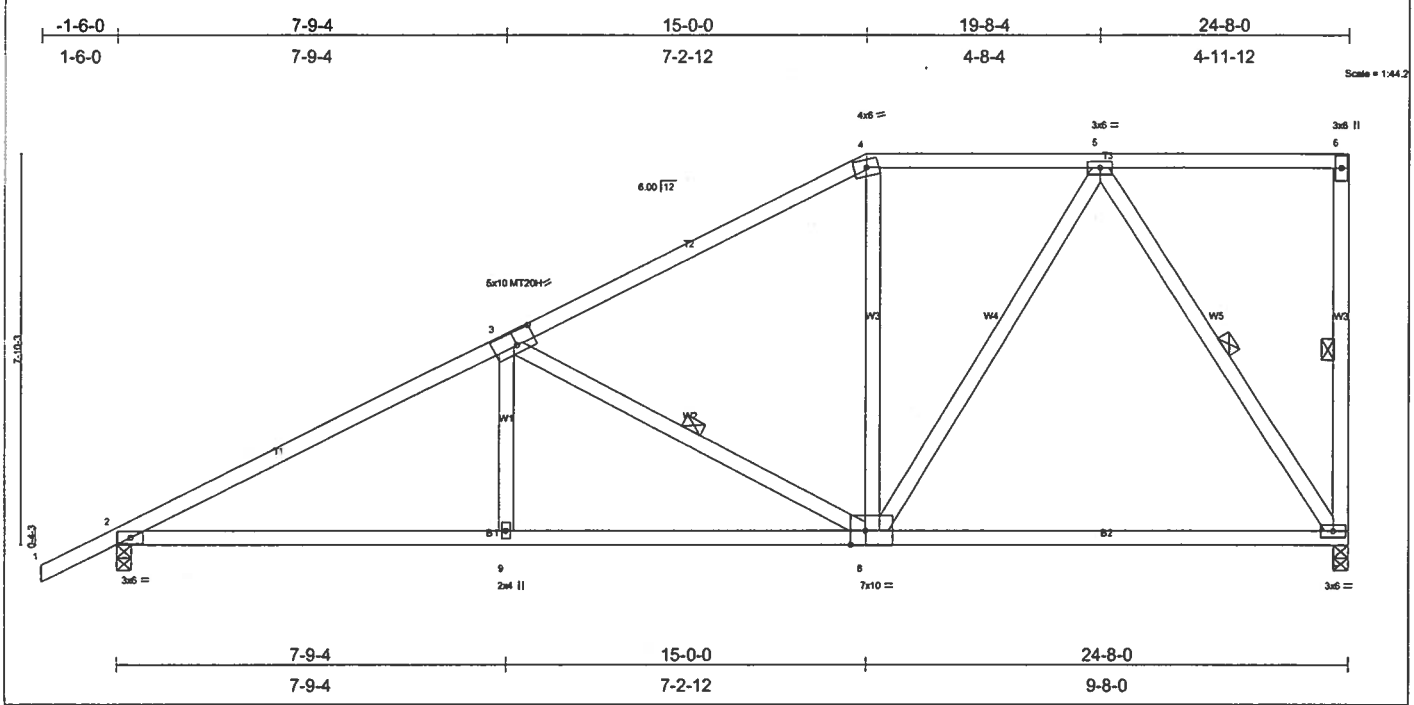


Plate Offsets (X,Y): [3:0-4-7,0-3-2], [8:0-3-7,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.19	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.33	7-8	>883	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 143 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-11 oc bracing.
WEBS 1 Row at midpt 6-7, 3-8, 5-7

REACTIONS (lb/size) 7=1021/0-3-8, 2=1116/0-3-8
Max Horz 2=394(load case 5)
Max Uplift7=-338(load case 4), 2=-403(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1732/587, 3-4=-1026/379, 4-5=-832/413, 5-6=-32/1, 6-7=-132/87
BOT CHORD 2-9=-798/1467, 8-9=-798/1467, 7-8=-264/513
WEBS 3-9=0/238, 3-8=-722/438, 4-8=0/94, 5-8=-283/605, 5-7=-892/486

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 7 and 403 lb uplift at joint 2.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051137

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T19	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Dec 27 15:19:55 2005 Page 1

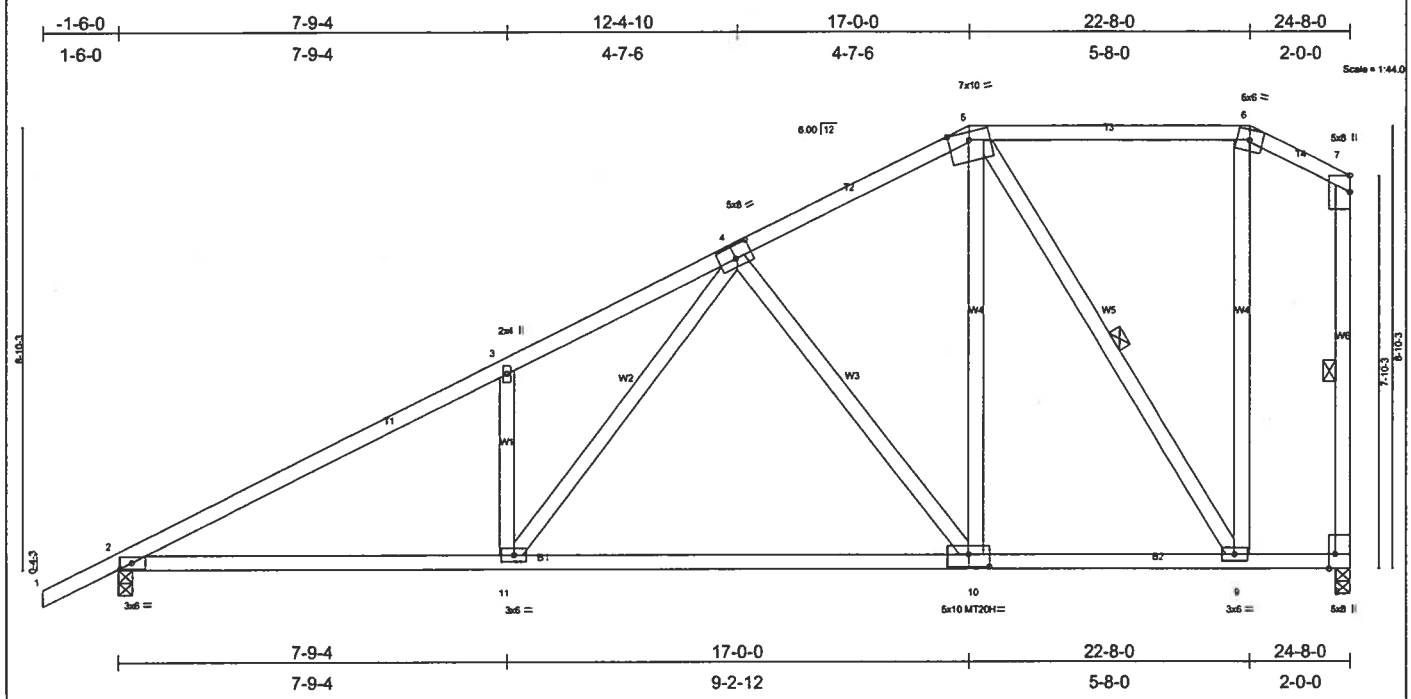


Plate Offsets (X,Y): [2:0-2-12,0-1-8], [4:0-4-0,0-3-0], [7:0-3-15,0-0-0], [8:0-3-8,Edge], [10:0-5-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.93	Vert(LL)	-0.27	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.43	9-10	>674	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(TL)	0.04	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 157 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-14 oc bracing.
WEBS 1 Row at midpt 5-9, 7-8

REACTIONS (lb/size) 2=1116/0-3-8, 8=1021/0-3-8
Max Horz 2=410(load case 5)
Max Uplift2=-407(load case 5), 8=-353(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1738/571, 3-4=-1717/756, 4-5=-781/346, 5-6=-142/114, 6-7=-364/186, 7-8=-538/270
BOT CHORD 2-11=-782/1468, 10-11=-543/982, 9-10=-328/681, 8-9=-64/136
WEBS 3-11=-370/369, 4-11=-403/816, 4-10=-518/362, 5-10=-280/753, 5-9=-992/481, 6-9=-129/392

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 407 lb uplift at joint 2 and 353 lb uplift at joint 8.

LOAD CASE(S) Standard

DECEMBER 28, 2005 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.#1228051138

Job	Truss	Truss Type	Qty	Ply	SIMQUE CONST-LOT 5 SVE
L143613	T20	SPECIAL	1	1	Job Reference (optional)

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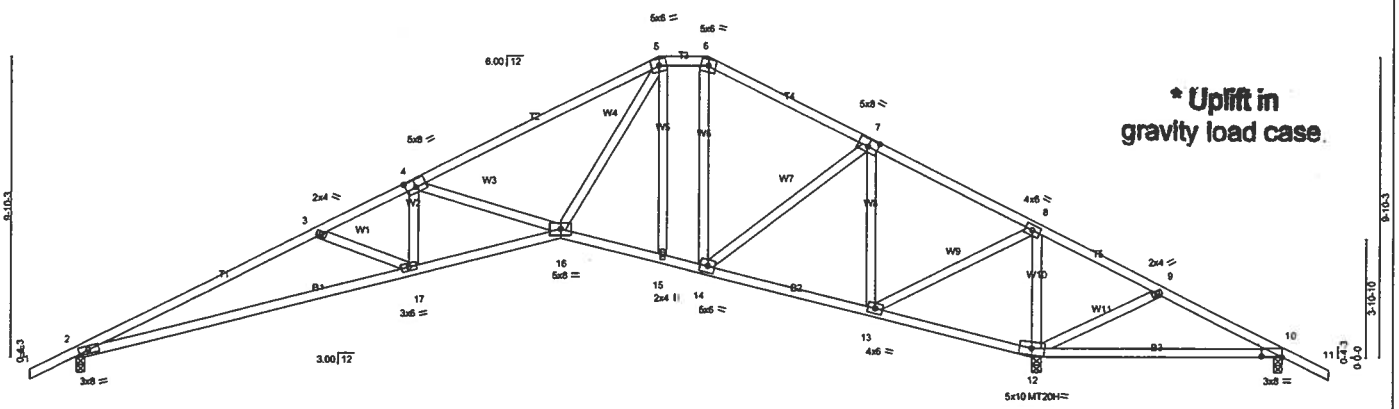
1-6-0 | 8-0-0 | 11-0-0 | 19-0-0 | 20-8-0 | 26-0-4 | 31-4-8 | 35-6-4 | 39-8-0 | 41-2-0

1-6-0 | 8-0-0 | 3-0-0 | 8-0-0 | 1-8-0 | 5-4-4 | 5-4-4 | 4-1-12 | 4-1-12 | 1-6-0

Scale = 1:72.3



11-0-0 | 15-10-0 | 19-0-0 | 20-8-0 | 26-0-4 | 31-4-8 | 39-8-0

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

Plate Offsets (X,Y): [4:0-4-0,0-3-0], [7:0-4-0,0-3-0], [10:0-8-0,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	1.00	Vert(LL)	-0.61	2-17	>616	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-1.01	2-17	>372	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(TL)	0.34	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 214 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=1159/0-3-8, 12=2823/0-3-8, 10=-496/0-3-8
Max Horz 2=-162(load case 6)
Max Uplift2=-457(load case 5), 12=-926(load case 5), 10=-616(load case 9)
Max Grav 2=1159(load case 1), 12=2823(load case 1), 10=97(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-3184/1305, 3-4=-2810/1120, 4-5=-1799/688, 5-6=-730/469, 6-7=-862/454, 7-8=-157/238, 8-9=-657/2000, 9-10=-486/1697, 10-11=0/35
BOT CHORD 2-17=-1023/2899, 16-17=-765/2565, 15-16=-37/818, 14-15=0/608, 13-14=-201/266, 12-13=-1897/861, 10-12=-1441/516
WEBS 3-17=-312/300, 4-17=-127/480, 4-16=-1026/578, 5-16=-481/1571, 5-15=-750/353, 6-14=-69/39, 7-14=-277/1014, 7-13=-1264/535, 8-13=-619/1931, 8-12=-1976/812, 9-12=-331/305

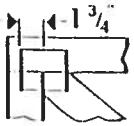
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 457 lb uplift at joint 2, 926 lb uplift at joint 12 and 616 lb uplift at joint 10.

LOAD CASE(S) Standard

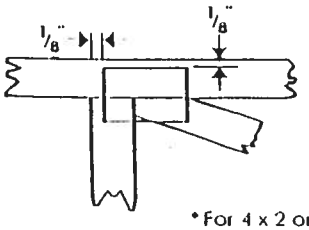
DECEMBER 28, 2005 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seal.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

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

PLATE SIZE

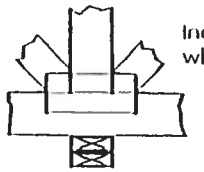
4 X 4

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

LATERAL BRACING

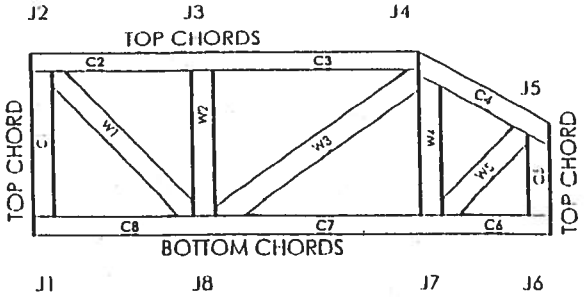
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

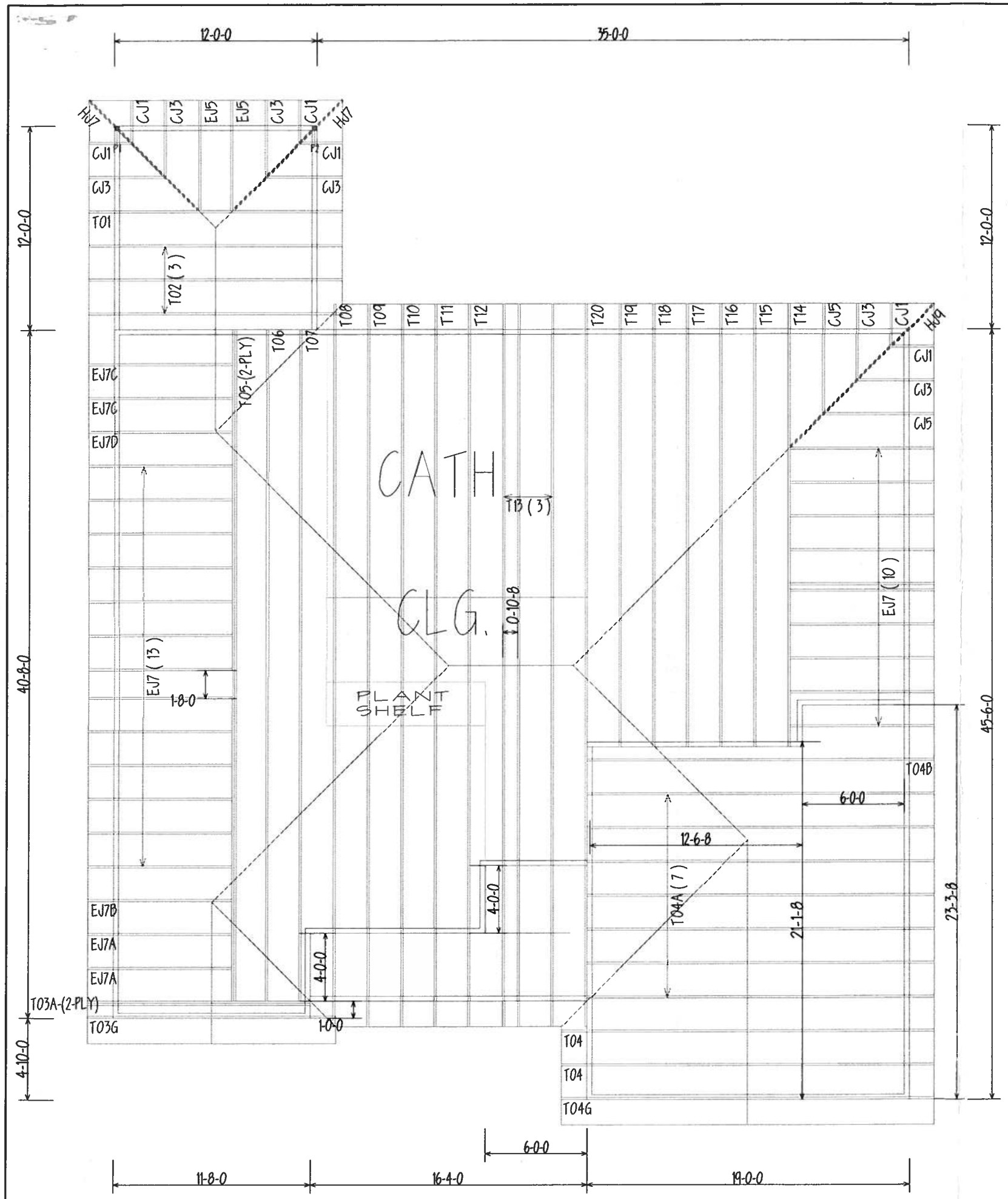
BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
HER	561

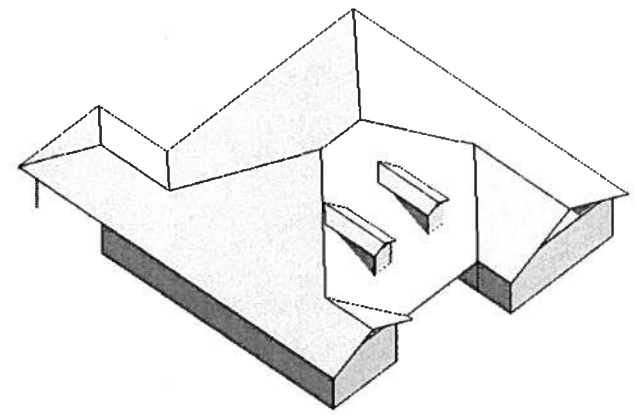
MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.





6/12 PITCH

1'6" OH

BEARING HEIGHT SCHEDULE

PLATE1

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V10S FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) ALL ROOF TRUSS HANGERS TO BE SIMPSON HU526 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

8.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Requested Delivery Date: _____

Approved By: _____ Date: _____

Builders FirstSource

Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville
PHONE: 904-772-6100 FAX: 904 772 1973

Lake City
PHONE: 904-755-6894 FAX: 904-755-7973

Sanford
PHONE: 407-322-0059 FAX: 407-322 5553

BUILDER: AARON SIMQUE		
LEGAL ADDRESS: LOT 5 SVE		
MODEL: ARLINGTON		REVISION:
		SCALE: NTS
DATE: 12-27-05	DRAWN BY: JRD	JOB #: L143613