DATE 07/05/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT 000024711

APPLICANT LINDA RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER CRAIG NICKELSON PHONE 623.5630

ADDRESS 386 SW MEADOW TERRACE LAKE CITY FL 32024

CONTRACTOR JAKE KIRSCH PHONE 386.344.4817

LOCATION OF PROPERTY 47-S TO HAMLET,TL TO STOP,TL ON LITTLE RD TO SOUTHWOOD MEADOWS ENTRANCE TO MEADOW TERRACE PAST ERIN, 2ND LOT ON R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 135800.00

HEATED FLOOR AREA 2716.00 TOTAL AREA 3951.00 HEIGHT 26.60 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

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

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

PARCEL ID 01-5S-16-03405-119 SUBDIVISION SOUTHWOOD MEADOWS

LOT 19 BLOCK PHASE UNIT TOTAL ACRES 1.24

000001148		CBC1253775	Linda R Roder
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor

18"X32'MITERED	06-0603-N	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: 1 FOOT ABOVE ROAD. SECTION 2.3.1. LEGAL NON-CONFORMING LOT OF RECORD.NOC ON FILE.

Check # or Cash 10222

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 $ 680.00 CERTIFICATION FEE $ 19.75 SURCHARGE FEE $ 19.75

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** 819.50

INSPECTORS OFFICE 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.

06/29/06 30

SUNTRUST MORTGAGE

AP# NICKE0036384162
LN# 0036384162

PREPARED BY/RETURN TO: Lauren Autry
SunTrust Mortgage Inc.
76 South Laura Street
Jacksonville, FL 32202

(name and address)

Inst:2006016039 Date:07/05/2006 Time:16:09
DC,P.DeWitt Cason,Columbia County B:1088 P:2370

NOTICE OF COMMENCEMENT

Building Permit No. _____ Tax Folio No. _____
STATE OF Florida

COUNTY OF Columbia

(Do not write in this blank area.
Reserved for recording purposes only)

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

1. Description of Property: (legal description of the property, and street address if available)
LOT 19 SOUTHWOOD MEADOWS
LAKE CITY,FL 32025
SEE ATTACHED "EXHIBIT A"
FOR LEGAL DESCRIPTION

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 Bonnie Dow Deputy Clerk
Date 7/6/2006

2. General Description of Improvements: Construction of single family dwelling

3. Owner Information:
a. Name and Address: ANNE MARIE NICKELSON and Craig Nickelson
1080 JAMESTOWN GLENN
LAKE GLENN, FL 32025
b. Interest in property: FEE SIMPLE
c. Name and address of fee Simple titleholder (if other than owner):

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

4. Contractor: Jacob Kirsch
COMPASS Builders
197 SW Waterford Court #106, Lake City, FL 32025

5. Surety:
a. Name and address:
b. Amount of bond $ _____

6. Lender Information:
a. Name and Address: SunTrust Mortgage Inc.
76 South Laura Street, Jacksonville, FL 32202
b. Designated Contact: RESIDENTIAL CONSTRUCTION DEPARTMENT

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 :
(name and address)

8. In addition to himself, Owner designates RESIDENTIAL CONSTRUCTION DEPARTMENT of SunTrust Mortgage Inc., A Virginia Corporation to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes

9. Expiration date of Notice of Commencement (the expiration date is eighteen months from the date of recording unless a different date is specified). Other expiration date: _____

Signature of Owner ANNE MARIE NICKELSON

Signature of Owner

Signature of Owner Craig Nickelson

Signature of Owner

STATE OF FL
COUNTY OF Columbia

The forgoing instrument was acknowledged before me this July 6th, 2006, by the Owner who is personally known to me or who produced Drivers License as identification.

[Seal]
Serial Number:

Notary Public Matthew Rocco
My Commission DD150709
Expires September 17, 2009

MW-FLA NOTICE COMMENCEMENT CFM
CFM #600756 (05/02)

File No. 06-0193

SCHEDULE A - LEGAL DESCRIPTION

Lot 19 Southwood Meadows, a subdivision according to the plat thereof recorded in Plat Book 5, Page 49 of the Public Records of Columbia County, Florida.

Inst:2006016039 Date:07/05/2006 Time:16:09
_____DC,P.DeWitt Cason,Columbia County B:1088 P:2371

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 06-06-96 Date Received 6/26 By JW Permit # 24711 / 1148
Application Approved by - Zoning Official BLK Date 29.06.06 Plans Examiner OK JH Date 7-5-06
Flood Zone X per plat Development Permit NA Zoning A-3 Land Use Plan Map Category A-3
Comments Section 2.31 Legal Non Conforming Lot of Record

Applicants Name Linda Roder - Melanie Roder Phone 752-2281
Address 387 SW Kemp Ct Lake City FL 32024
Owners Name Craig Nickelson Phone 623-5630
911 Address 386 SW Meadow Terrace Lake City FL 32024
Contractors Name Jake Kirsch of Compass Builders Phone 344-4817
Address 197 S.W. Waterford Ct. Ste 106 Lake City FL 32025
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address NA
Architect/Engineer Name & Address DDS / Mark Disosway
Mortgage Lenders Name & Address CCB

Circle the correct power company - FL Power & Light - (Clay Elec.) - Suwannee Valley Elec. - Progressive Energy
Property ID Number 01-5S-16-03405-119 Estimated Cost of Construction 175,000
Subdivision Name Southwood Meadows Lot 19 Block ___ Unit ___ Phase ___
Driving Directions 475, Lon Hamlet, to stop, Lon S.W. Little to Southwood meadows entrance. (S.W. Meadow Terrace) go past S.W. Erin Gln, 2nd lot on right
Type of Construction SFD Number of Existing Dwellings on Property 0
Total Acreage 1.243 Lot Size ___ Do you need a (Culvert Permit) or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 45 ✓ Side 51 ✓ Side 51 ✓ Rear 201 ✓
Total Building Height 26-6 Number of Stories 2 Heated Floor Area 2716 Roof Pitch 8-12
GARAGE 779 PORCHES 456 TOTAL 3951

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 CBC 1253775
Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

Linda R. Roder
Commission #DD303276
Expires: Mar 24, 2008
Bonded Thru Atlantic Bonding Co., Inc.
NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me
this 26 day of June 20 06
Personally known ✓ or Produced Identification ___

Notary Signature

JW called & left MESSAGE 7.5.06
JW talked w/ LINDA 7.5.06

06/17/2006 16:21 3867528220 LINDA RODER PAGE 01

Documentary $ 70
Intangible Tax
J. DeWitt Cason
Clerk of Court
By D.C.

WARRANTY DEED

FILED AND RECORDED IN PUBLIC RECORDS OF COLUMBIA COUNTY, FL

1999 JUL 20 AM 10:42

RECORD VERIFIED

This Warranty Deed made the 25 day of June, A.D. 1999 by 99-12489

Daniel J. Nickelson and wife, Gail F. Nickelson

hereinafter called the grantor, to

Craig J. Nickelson
subject property
Whose address is: Rt. 9, Box 785-18, Lake City, Fl. 32024
hereinafter call the grantee:

Witnesseth: That the grantor, for and in consideration of the sum of $10.00 and other valuable consideration, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situated in Columbia County, Florida.

Lot 19, Southwood Meadows, a subdivision according to the plat thereof recorded in Plat Book 6, Page 49 of the public records of 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 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, 1998.

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 KAREN F. JOINER

Witness KAREN BROWN

Daniel J. Nickelson

Gail F. Nickelson

State of Florida

County of Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County last aforesaid to take acknowledgments personally appeared
Daniel J. Nickelson and wife, Gail F. Nickelson
known to me personally and/or who produced identification and who executed before me the foregoing deed and acknowledged before me that she executed the same.

WITNESS my hand and official seal in the County and State last aforesaid this 25 day of June, A.D., 1999.

OR 0884 PG 1672
OFFICIAL RECORDS

NOTARY PUBLIC

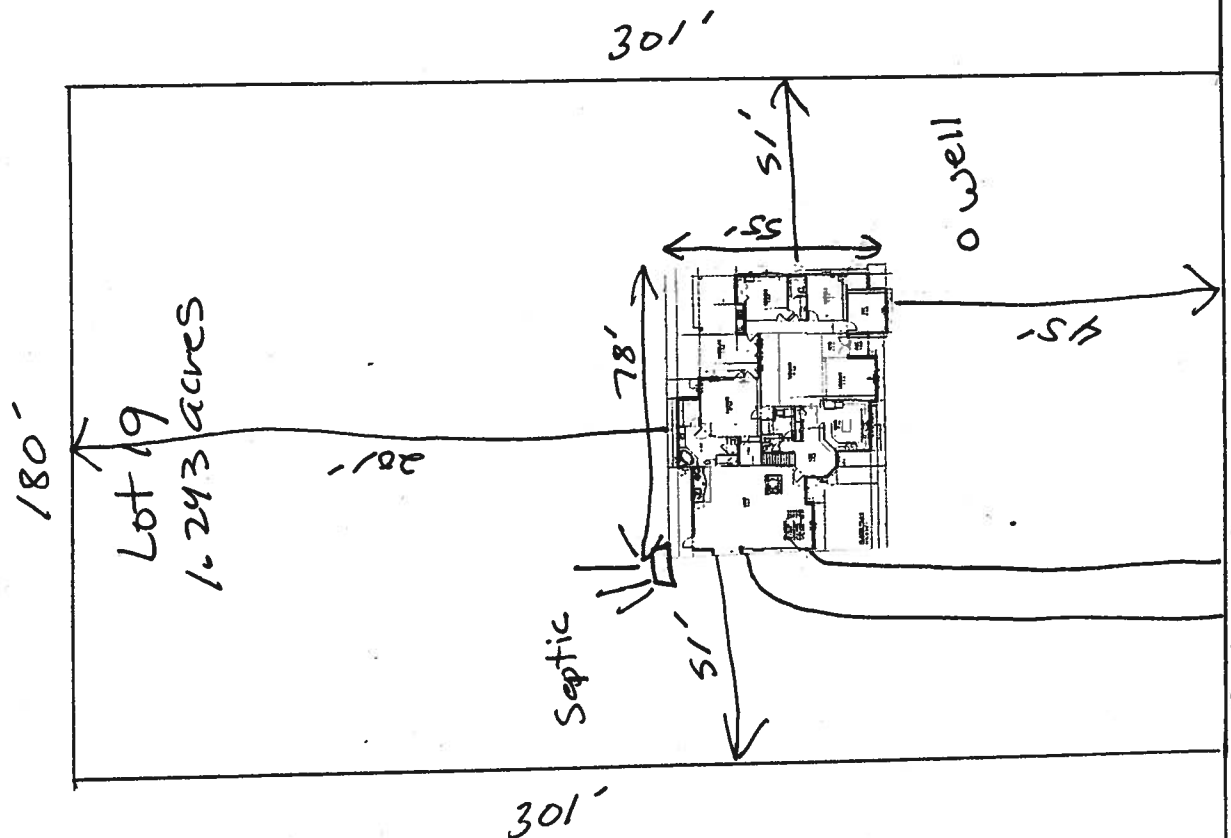
(seal)

KAREN BROWN
MY COMMISSION # CC 819829
EXPIRES: April 5, 2003
Bonded Thru Notary Public Underwriters

Lot 19 Southwood Meadows

Craig Nickelson

01-55-16-03405-119



HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

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

June 12, 2002

NOTICE TO ALL CONTRACTORS

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

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

Thank you,

Donald D. Hall
DDH/jk

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Craig Nickelson Residence**	Builder:	**Compass Builders**
Address:	**Southwood Meadows**	Permitting Office:	Columbia
City, State:	**Lake City, FL**	Permit Number:	24711
Owner:	**Craig Nickelson**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	
2. Single family or multi-family	Single family	
3. Number of units, if multi-family	1	
4. Number of Bedrooms	3	
5. Is this a worst case?	No	
6. Conditioned floor area (ft²)	2716 ft²	
7. Glass area & type		
a. Clear - single pane	0.0 ft²	
b. Clear - double pane	391.8 ft²	
c. Tint/other SHGC - single pane	0.0 ft²	
d. Tint/other SHGC - double pane	0.0 ft²	
8. Floor types		
a. Slab-On-Grade Edge Insulation	R=0.0, 229.0(p) ft	
b. Raised Wood, Stem Wall	R=17.0, 336.0ft²	
c. N/A		
9. Wall types		
a. Frame, Wood, Exterior	R=13.0, 1872.0 ft²	
b. Frame, Wood, Exterior	R=13.0, 840.0 ft²	
c. N/A		
d. N/A		
e. N/A		
10. Ceiling types		
a. Under Attic	R=30.0, 2716.0 ft²	
b. N/A		
c. N/A		
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 155.0 ft	
b. N/A		

12. Cooling systems		
a. Central Unit	Cap: 48.0 kBtu/hr	
	SEER: 10.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 48.0 kBtu/hr	
	HSPF: 6.80	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	
	EF: 0.90	
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

Glass/Floor Area: 0.14

Total as-built points: 36501

Total base points: 39762

PASS

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

PREPARED BY: _____

DATE: 3-10-06

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

OWNER/AGENT: _____

DATE: 6-20-06

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: _____

FORM 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Southwood Meadows, Lake City, FL,**	PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Southwood Meadows, Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
3		2746.00	8238.0	50.0	0.90	3	1.00	2684.98	1.00	8054.9	
				As-Built Total:						**8054.9**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
16187	**15337**	**8238**	**39762**	**14182**	**14264**	**8055**	**36501**

PASS

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Southwood Meadows, Lake City, FL,** PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	229.0(p)	8.9	2038.1	Slab-On-Grade Edge Insulation	0.0	229.0(p	18.80	4305.2
Raised	336.0	0.96	322.6	Raised Wood, Stem Wall	17.0	336.0	0.90	302.4
Base Total:			2360.7	**As-Built Total:**		565.0		4607.6
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	= Points
	2716.0	-0.59	-1602.4			2716.0	-0.59	-1602.4
Winter Base Points:			24446.1	**Winter As-Built Points:**				24474.1
Total Winter Points	X System Multiplier	=	Heating Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier = Heating Points
24446.1	**0.6274**		**15337.5**	24474.1 **24474.1**	1.000 **1.00**	(1.069 x 1.169 x 0.93) **1.162**	0.501 **0.501**	1.000 14263.5 **1.000 14263.5**

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Southwood Meadows, Lake City, FL,** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	2716.0	12.74	6228.3	Double, Clear	N	1.5	6.0	18.3	14.30	1.00	262.9
				Double, Clear	N	1.5	5.0	12.0	14.30	1.00	172.3
				Double, Clear	N	1.5	7.3	36.0	14.30	1.00	515.6
				Double, Clear	N	1.5	7.3	42.0	14.30	1.00	601.5
				Double, Clear	W	1.5	7.2	30.0	10.77	1.02	327.9
				Double, Clear	W	1.5	6.0	30.0	10.77	1.02	330.5
				Double, Clear	W	1.5	2.7	12.0	10.77	1.10	141.9
				Double, Clear	S	10.0	8.0	20.0	4.03	3.09	248.8
				Double, Clear	S	1.5	2.0	13.5	4.03	2.27	123.3
				Double, Clear	N	1.5	6.2	20.0	14.30	1.00	286.7
				Double, Clear	S	1.5	2.3	8.0	4.03	2.00	64.6
				Double, Clear	S	1.5	7.0	18.0	4.03	1.07	77.9
				Double, Clear	E	1.5	7.2	18.0	9.09	1.03	167.8
				Double, Clear	E	1.5	7.0	16.0	9.09	1.03	149.3
				Double, Clear	E	1.5	5.2	12.0	9.09	1.05	114.2
				Double, Clear	NE	1.5	6.3	16.0	13.40	1.01	215.5
				Double, Clear	N	10.0	8.0	70.0	14.30	1.02	1022.3
				As-Built Total:				**391.8**			**4823.0**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1872.0	3.40	6364.8
Exterior	2712.0	3.70	10034.4	Frame, Wood, Exterior	13.0	840.0	3.40	2856.0
Base Total:	**2712.0**		**10034.4**	**As-Built Total:**		**2712.0**		**9220.8**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Wood	33.0	12.30	405.9
Exterior	151.0	12.30	1857.3	Exterior Wood	40.0	12.30	492.0
				Exterior Wood	40.0	12.30	492.0
				Exterior Wood	18.0	12.30	221.4
				Exterior Wood	20.0	12.30	246.0
Base Total:	**151.0**		**1857.3**	**As-Built Total:**	**151.0**		**1857.3**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	2716.0	2.05	5567.8	Under Attic	30.0	2716.0	2.05 X	1.00	5567.8
Base Total:	**2716.0**		**5567.8**	**As-Built Total:**		**2716.0**			**5567.8**

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Southwood Meadows, Lake City, FL,** PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES	Area X	BSPM =	Points	Type	R-Value	Area X	SPM =	Points
Slab	229.0(p)	-37.0	-8473.0	Slab-On-Grade Edge Insulation	0.0	229.0(p	-41.20	-9434.8
Raised	336.0	-3.99	-1340.6	Raised Wood, Stem Wall	17.0	336.0	-1.60	-537.6
Base Total:			-9813.6	**As-Built Total:**		565.0		-9972.4
INFILTRATION	Area X	BSPM =	Points			Area X	SPM =	Points
	2716.0	10.21	27730.4			2716.0	10.21	27730.4
Summer Base Points:			37944.1	**Summer As-Built Points:**				36523.6
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier = Cooling Points
37944.1	**0.4266**		**16186.9**	36523.6 **36523.6**	1.000 **1.00**	(1.090 x 1.147 x 0.91) **1.138**	0.341 **0.341**	1.000 **1.000** 14182.1 **14182.1**

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Southwood Meadows, Lake City, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2716.0	20.04	9797.2	Double, Clear	N	1.5	6.0	18.3	19.22	0.94	330.7	
				Double, Clear	N	1.5	5.0	12.0	19.22	0.92	211.2	
				Double, Clear	N	1.5	7.3	36.0	19.22	0.96	663.8	
				Double, Clear	N	1.5	7.3	42.0	19.22	0.96	774.5	
				Double, Clear	W	1.5	7.2	30.0	36.99	0.94	1045.8	
				Double, Clear	W	1.5	6.0	30.0	36.99	0.91	1013.5	
				Double, Clear	W	1.5	2.7	12.0	36.99	0.69	306.9	
				Double, Clear	S	10.0	8.0	20.0	34.50	0.49	337.7	
				Double, Clear	S	1.5	2.0	13.5	34.50	0.57	263.3	
				Double, Clear	N	1.5	6.2	20.0	19.22	0.94	362.0	
				Double, Clear	S	1.5	2.3	8.0	34.50	0.60	165.1	
				Double, Clear	S	1.5	7.0	18.0	34.50	0.89	555.5	
				Double, Clear	E	1.5	7.2	18.0	40.22	0.94	682.0	
				Double, Clear	E	1.5	7.0	16.0	40.22	0.94	603.9	
				Double, Clear	E	1.5	5.2	12.0	40.22	0.88	425.8	
				Double, Clear	NE	1.5	6.3	16.0	28.72	0.93	427.1	
				Double, Clear	N	10.0	8.0	70.0	19.22	0.68	909.2	
				As-Built Total:				**391.8**			**9077.9**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1872.0	1.50	2808.0
Exterior	2712.0	1.70	4610.4	Frame, Wood, Exterior	13.0	840.0	1.50	1260.0
Base Total:	**2712.0**		**4610.4**	**As-Built Total:**		**2712.0**		**4068.0**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Wood	33.0	6.10	201.3
Exterior	151.0	6.10	921.1	Exterior Wood	40.0	6.10	244.0
				Exterior Wood	40.0	6.10	244.0
				Exterior Wood	18.0	6.10	109.8
				Exterior Wood	20.0	6.10	122.0
Base Total:	**151.0**		**921.1**	**As-Built Total:**	**151.0**		**921.1**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	2716.0	1.73	4698.7	Under Attic	30.0	2716.0	1.73 X 1.00	4698.7
Base Total:	**2716.0**		**4698.7**	**As-Built Total:**		**2716.0**		**4698.7**

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.6

The higher the score, the more efficient the home.

Craig Nickelson, Southwood Meadows, Lake City, FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family	a.	Central Unit	Cap: 48.0 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 10.00
4.	Number of Bedrooms	3	b.	N/A	
5.	Is this a worst case?	No			
6.	Conditioned floor area (ft²)	2716 ft²	c.	N/A	
7.	Glass area & type				
a.	Clear - single pane	0.0 ft²	13.	Heating systems	
b.	Clear - double pane	391.8 ft²	a.	Electric Heat Pump	Cap: 48.0 kBtu/hr
c.	Tint/other SHGC - single pane	0.0 ft²			HSPF: 6.80
d.	Tint/other SHGC - double pane	0.0 ft²	b.	N/A	
8.	Floor types				
a.	Slab-On-Grade Edge Insulation	R=0.0, 229.0(p) ft	c.	N/A	
b.	Raised Wood, Stem Wall	R=17.0, 336.0ft²			
c.	N/A		14.	Hot water systems	
9.	Wall types		a.	Electric Resistance	Cap: 50.0 gallons
a.	Frame, Wood, Exterior	R=13.0, 1872.0 ft²			EF: 0.90
b.	Frame, Wood, Exterior	R=13.0, 840.0 ft²	b.	N/A	
c.	N/A				
d.	N/A		c.	Conservation credits	
e.	N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
a.	Under Attic	R=30.0, 2716.0 ft²	15.	HVAC credits	
b.	N/A			(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 155.0 ft		RB-Attic radiant barrier,	
b.	N/A			MZ-C-Multizone cooling,	
				MZ-H-Multizone heating)	

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

Builder Signature: _____ Date: _____

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

*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/488-1824.

EnergyGauge® (Version: FLRCPB v3.2)

Gthn's
Janice

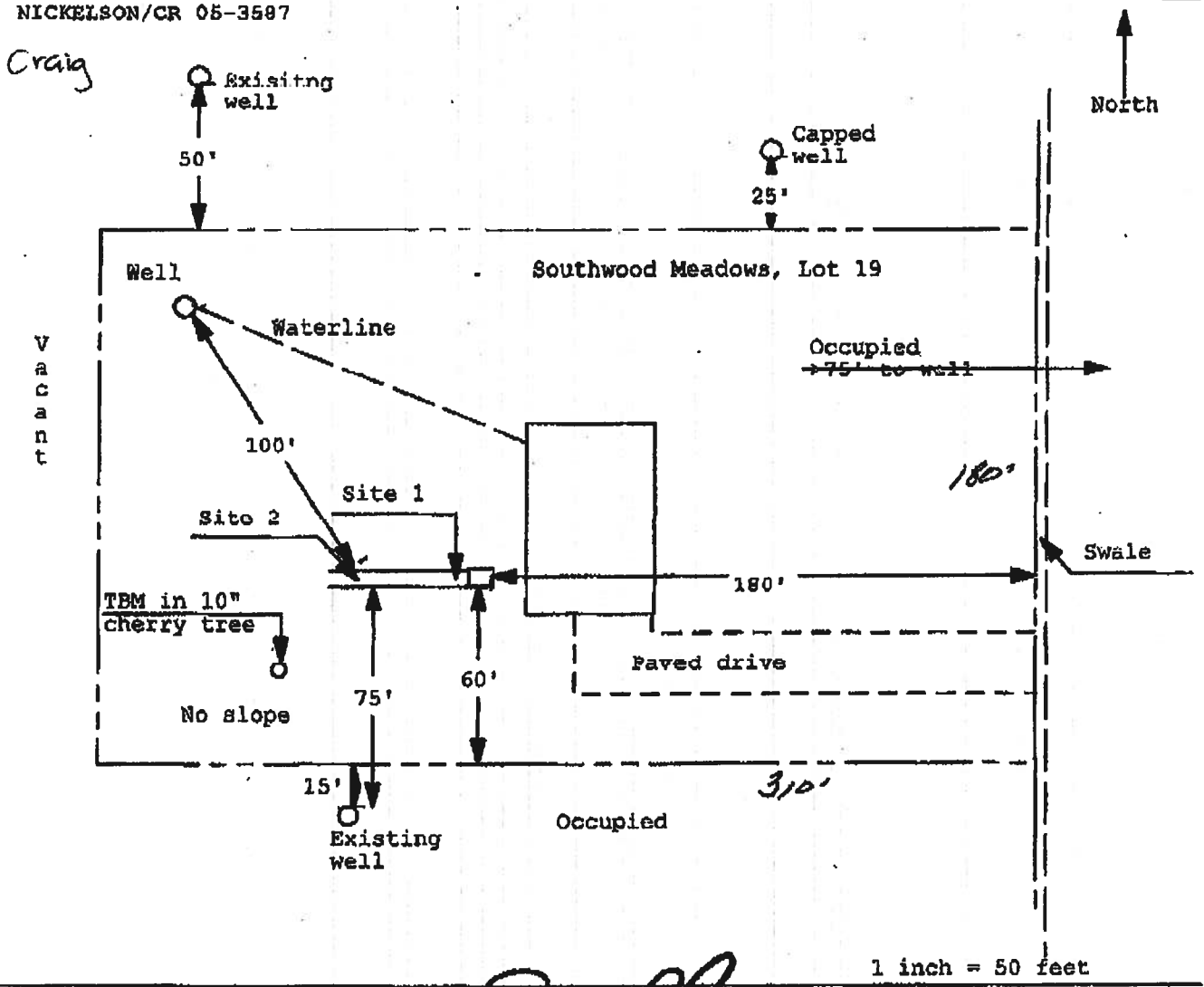
Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 06-0603N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

NICKELSON/CR 05-3587

Craig



Site Plan Submitted By Paul Lloyd Date 6/23/06

Plan Approved ✓ Not Approved ____ Date ____

By Sallie Gradby. ES II 6.27.06 CPHU

Notes: Columbia CHD

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001148

DATE 07/06/2006 PARCEL ID # 01-5S-16-03405-119

APPLICANT LINDA RODER PHONE 752.2281

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER CRAIG NICKELSON PHONE 623.5630

ADDRESS 386 SW MEADOW TERRACE LAKE CITY FL 32024

CONTRACTOR JAKE KIRSCH PHONE 386.344.4817

LOCATION OF PROPERTY 47-S TO HAMLET,TL TO STOP,TO LITTLE RD,TL TO SOUTHWOOD MEADOW ENTRANCE TO MEADOW TERRACE, PAST ERIN GLEN, 2ND LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT SOUTHWOOD MEADOWS 19

SIGNATURE Linda R Roder

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

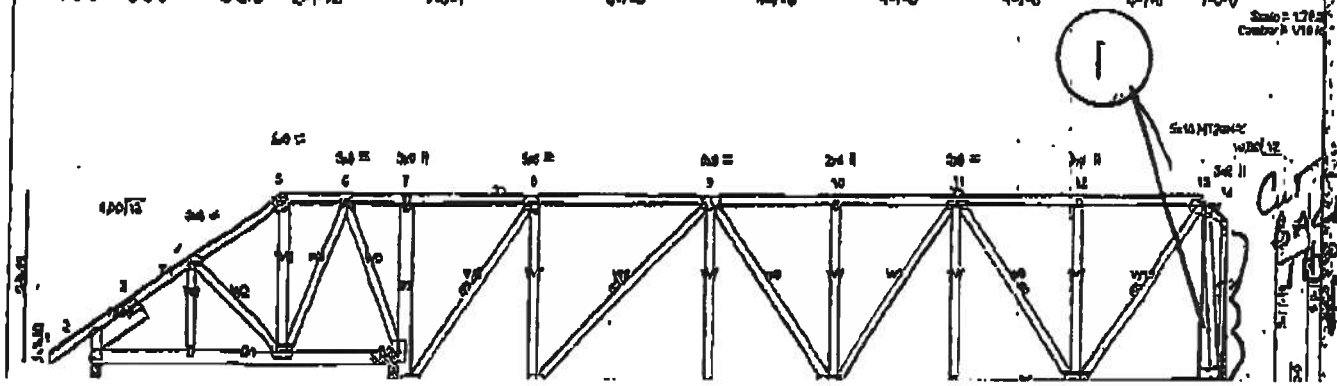
Amount Paid 25.00

COLUMBIA COUNTY GATEWAY TO FLORIDA

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T25	SPECIAL	1	1	

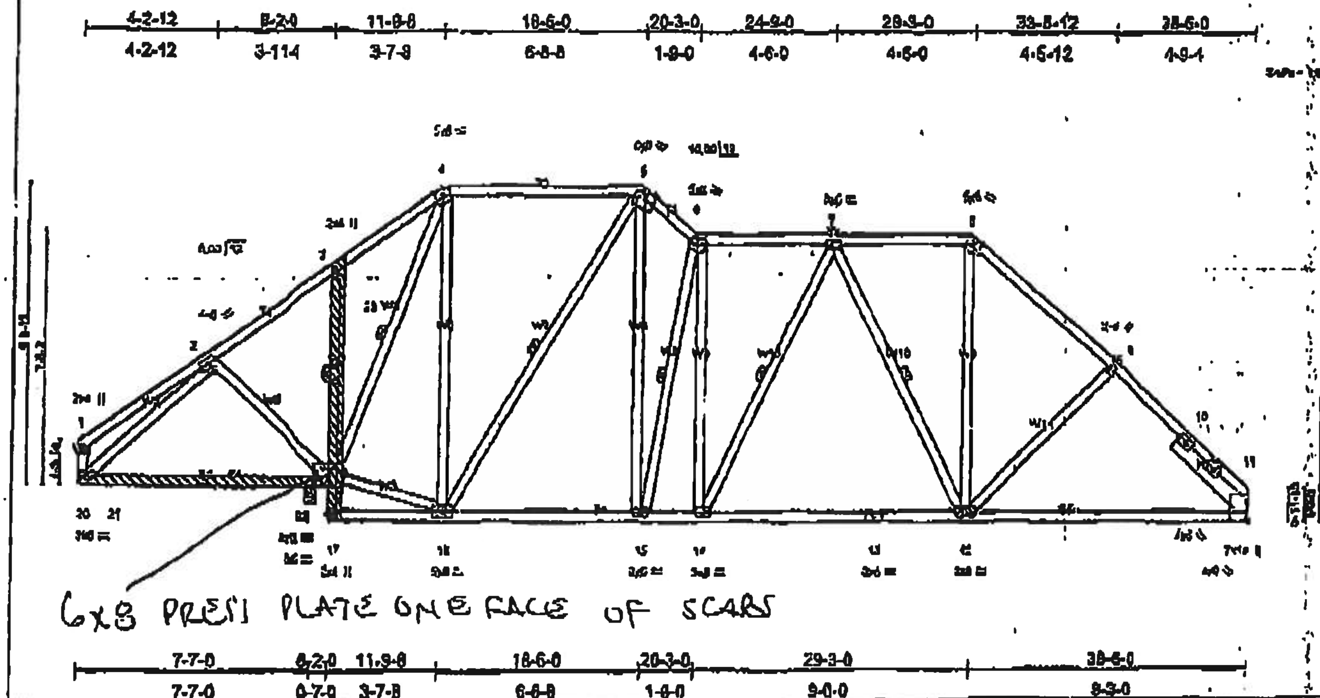
Job Reference (optional)

1-6-0 3-6-8 6-6-8 8-2-4 15-2-5 22-10-0 27-5-8 32-1-0 36-6-8 41-4-0 42-1-0
1-6-0 3-6-8 3-0-0 2-1-12 7-0-1 8-7-8 4-7-8 4-7-8 4-7-8 4-7-8 1-0-0



Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T18	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Sep 13 15:05:45 2006 Page 1



LOADING (psf)		SPACING		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.18	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.87	Vert(TL)	-0.50	12-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.04	11	n/a	n/a		
BCDL	6.0	Code FBC2004/TPI2002		(Matrix)							Weight: 327 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.3
WEBS 2 X 4 SYP No.3
LBR SCAB 18-20 2 X 4 SYP No.2 one side
3-17 2 X 6 SYP No.1D one side
SLIDER Right 2 X 6 SYP No.1D 3-2-14

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-7 max.): 4-5, 6-8.
BOT CHORD Rigid ceiling directly applied or 8-7-14 oc bracing. Except:
1 Row at midpt 3-18
WEBS 1 Row at midpt 4-18, 5-16, 6-15, 7-14, 7-12

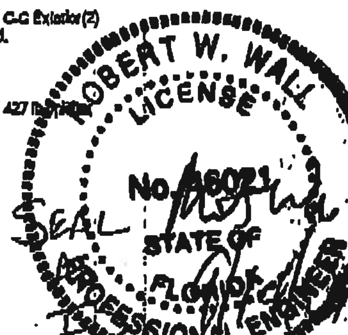
REACTIONS (lb/size) 11=1333/Mechanical, 20=454/Mechanical, 19=1435/0-4-0
Max Horz 20=-331(load case 5)
Max Uplift 11=-493(load case 6), 20=-167(load case 6), 19=-427(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-180/67, 2-3=-324/231, 3-4=-566/577, 4-5=-906/457, 5-6=-1253/714, 6-7=-1243/656, 7-8=-1082/528, 8-9=-1454/661, 9-10=-1664/858, 10-11=-1650/827, 1-20=-178/111
BOT CHORD 20-21=-213/324, 21-22=-203/324, 19-22=-282/334, 18-19=-283/334, 17-18=-0/41, 18-23=-240/220, 3-23=-240/220, 16-17=-148/294, 15-16=-577/1029, 14-15=-429/1240, 13-14=-413/1229, 12-13=-413/1233, 11-12=-361/1145
WEBS 2-18=-181/203, 18-19=-137/327, 4-18=-808/269, 4-16=-389/743, 5-16=-709/306, 6-16=-480/1119, 6-15=-1038/505, 6-14=-17/176, 7-14=-20/66, 7-12=-319/285, 3-12=-236/625, 9-12=-107/218, 2-20=-420/198

JOINT STRESS INDEX
1 = 0.65, 2 = 0.27, 3 = 0.34, 3 = 0.00, 4 = 0.60, 5 = 0.64, 6 = 0.38, 7 = 0.46, 8 = 0.51, 9 = 0.34, 10 = 0.00, 11 = 0.56, 11 = 0.30, 11 = 0.30, 12 = 0.61, 13 = 0.59, 14 = 0.46, 15 = 0.73, 16 = 0.22, 17 = 0.56, 17 = 0.00, 18 = 0.72, 18 = 0.16, 20 = 0.38 and 20 = 0.00

NOTES
1) Attached 8-2-0 scab 18 to 20, front face(s) 2 X 4 SYP No.2 with 1 row(s) of 0.131"x3" Nails spaced 9" o.c..
2) Attached 8-0-10 scab 3 to 17, front face(s) 2 X 6 SYP No.1D with 2 row(s) of 0.131"x3" Nails spaced 9" o.c.except : starting at 6-6-1 from end at joint 3, nail 2 row(s) at 7 o.c. for 2-0-0.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
5) Provide adequate drainage to prevent water ponding.
6) Refer to girder(s) for truss to truss connections.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 493 lb uplift at joint 11, 167 lb uplift at joint 20 and 427 lb uplift at joint 19.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T19	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2006 MiTek Industries, Inc. Wed Sep 13 13:10:32 2006 Page 1

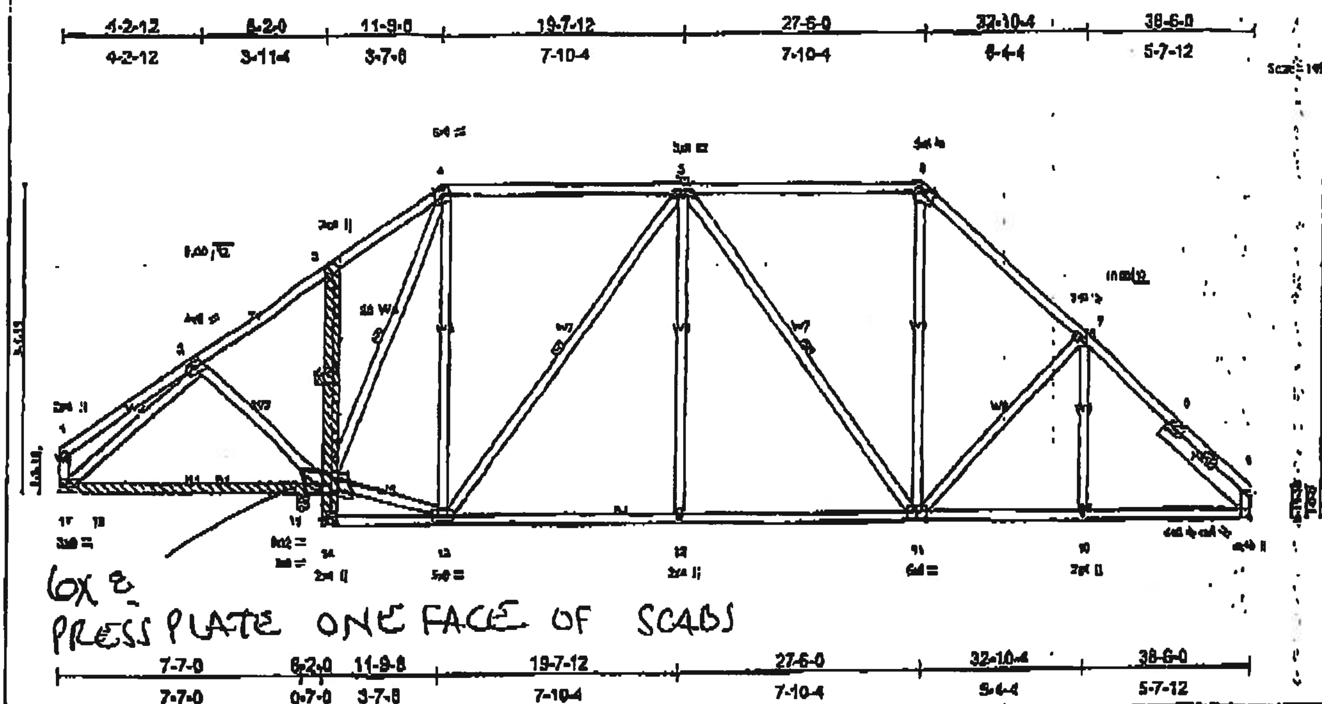


Plate Offsets (X,Y): [11:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.11	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.19	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.05	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 357 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.3
WEBS 2 X 4 SYP No.3
LBR SCAB 15-17 2 X 4 SYP No.2 one side
3-14 2 X 6 SYP No.1D one side
SLIDER Right 2 X 4 SYP No.1D 2-3-7

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-12 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing. Except:
1 Row at midpt 2-16
WEBS 1 Row at midpt 4-15, 5-13, 5-11

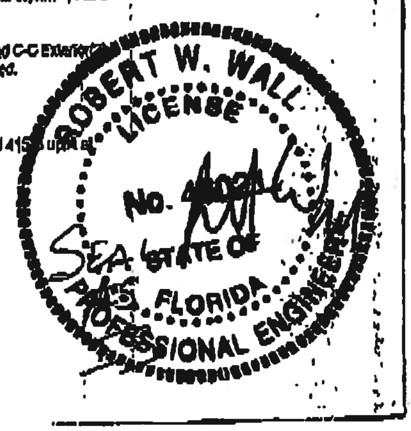
REACTIONS (lb/size) 9=1351/Mechanical, 17=629/Mechanical, 16=1342/0-4-0
Max Horz 17=-334(load case 3)
Max Uplift 9=-412(load case 6), 17=-169(load case 8), 16=-415(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-152/93, 2-3=-422/296, 3-4=-454/439, 4-5=-661/493, 5-6=-1031/614, 6-7=-1365/874, 7-8=-1618/658, 8-9=-1721/694, 1-17=-172/115
BOT CHORD 17-18=-320/402, 18-19=-320/402, 16-18=-320/402, 15-16=-320/402, 14-15=-2/35, 15-20=-180/218, 3-20=-188/218, 13-14=-181/277, 12-13=-450/1114, 11-12=-450/1114, 10-11=-550/1183, 9-10=-550/1183
WEBS 2-16=-135/196, 13-15=-172/400, 4-15=-928/325, 4-13=-241/535, 5-13=-770/253, 5-12=0/245, 5-11=-243/247, 6-11=-177/409, 7-11=-226/276, 7-10=0/196, 2-17=-413/262

JOINT STRESS INDEX
1 = 0.67, 2 = 0.27, 3 = 0.34, 3 = 0.00, 4 = 0.60, 5 = 0.67, 6 = 0.70, 7 = 0.43, 8 = 0.00, 9 = 0.84, 9 = 0.51, 8 = 0.31, 10 = 0.34, 11 = 0.40, 12 = 0.34, 13 = 0.32, 14 = 0.40, 14 = 0.00, 16 = 0.63, 15 = 0.16, 17 = 0.36 and 17 = 0.60

NOTES
1) Attached 8-2-0 scab 16 to 17, front face(s) 2 X 4 SYP No.2 with 1 row(s) of 0.131"x3" Nails spaced 8" o.c.
2) Attached 8-0-10 scab 3 to 14, front face(s) 2 X 6 SYP No.1D with 2 row(s) of 0.131"x3" Nails spaced 8" o.c.except : starting at 5-9-1 from end at joint 3, nail 2 row(s) at 7" o.c. for 2-0-0.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
5) Provide adequate drainage to prevent water ponding.
6) Refer to girder(s) for truss to truss connections.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 412 lb uplift at joint 9, 169 lb uplift at joint 17 and 415 lb uplift at joint 16.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T25	SPECIAL	1	1	Job Reference (optional)

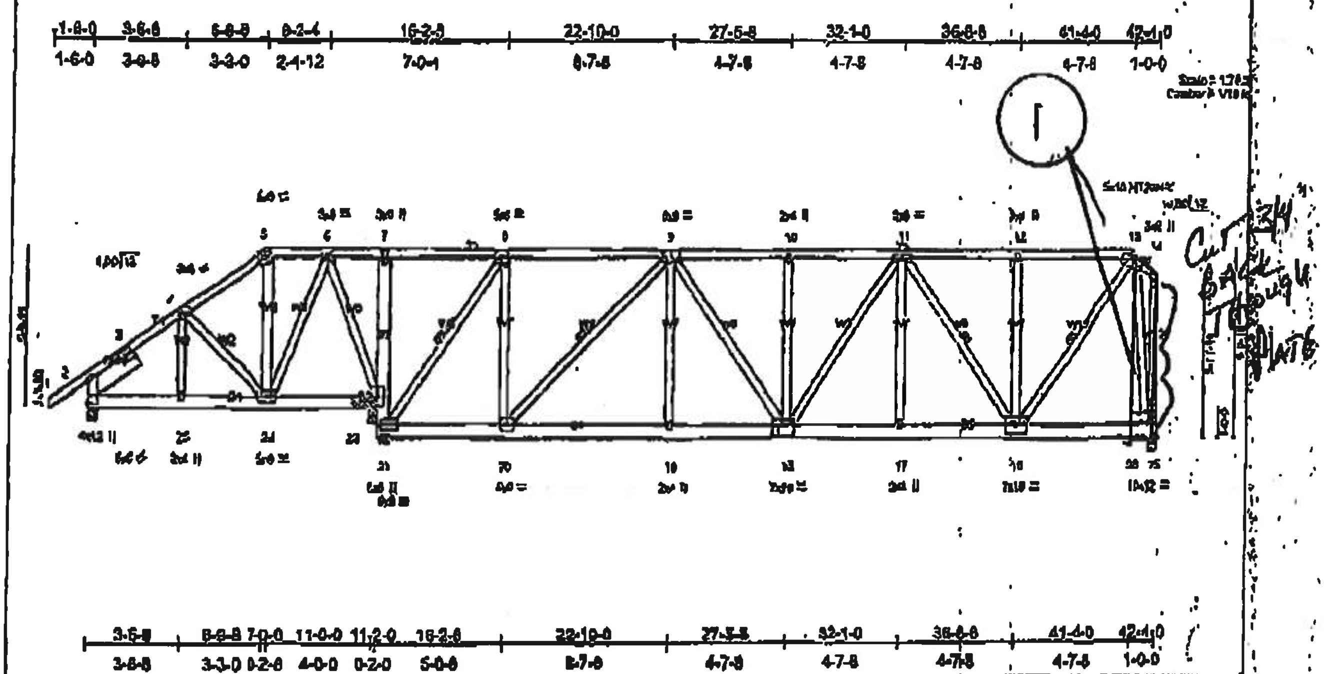


Plate Offsets (X,Y): [2:0-0-11,0-0-2], [20:4-0,0-3-0], [18:0-3-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.92	Vert(LL)	0.17	18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.24	18	>999	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(TL)	0.02	15	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 257 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W6 2 X 4 SYP No.2
SLIDER Left 2 X 6 SYP No.1D 2-3-12

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-1 max.): 5-13.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-21, 9-20, 11-18, 10-18, 13-16

REACTIONS (lb/size) 2=370/0-4-0, 22=1640/0-6-8 (0-4-0 + bearing block), 15=2011/0-4-0
Max Horz 2=336(load case 4)
Max Uplift 2=-311(load case 4), 23=-3117(load case 5), 15=-1511(load case 2)
Max Grav 2=370(load case 8), 22=1640(load case 1), 15=2014(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/0, 2-3=-278/188, 3-4=-203/214, 4-5=-47/124, 5-6=-36/148, 6-7=-606/925, 7-8=-568/858, 8-9=-1125/885, 9-10=-2856/1859, 10-11=-2856/1859, 11-12=-1657/1174, 12-13=-1657/1174, 13-14=-64/0, 14-15=-25/0
BOT CHORD 2-25=-280/155, 24-25=-203/144, 23-24=-445/282, 22-23=-445/282, 21-22=-1624/2739, 7-22=-364/420, 20-21=-985/1138, 19-20=-1657/2656,

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

1. ***2x10 No.2 SYP SCAB ONE FACE WITH 13-10d's AT EACH END AND 18-10d's AT EACH WEB MEMBER.***

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

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158378	T17R	SPECIAL	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Jul 13 2005 MiTek Industries, Inc. Wed Sep 13 13:07:43 2006 Page 1

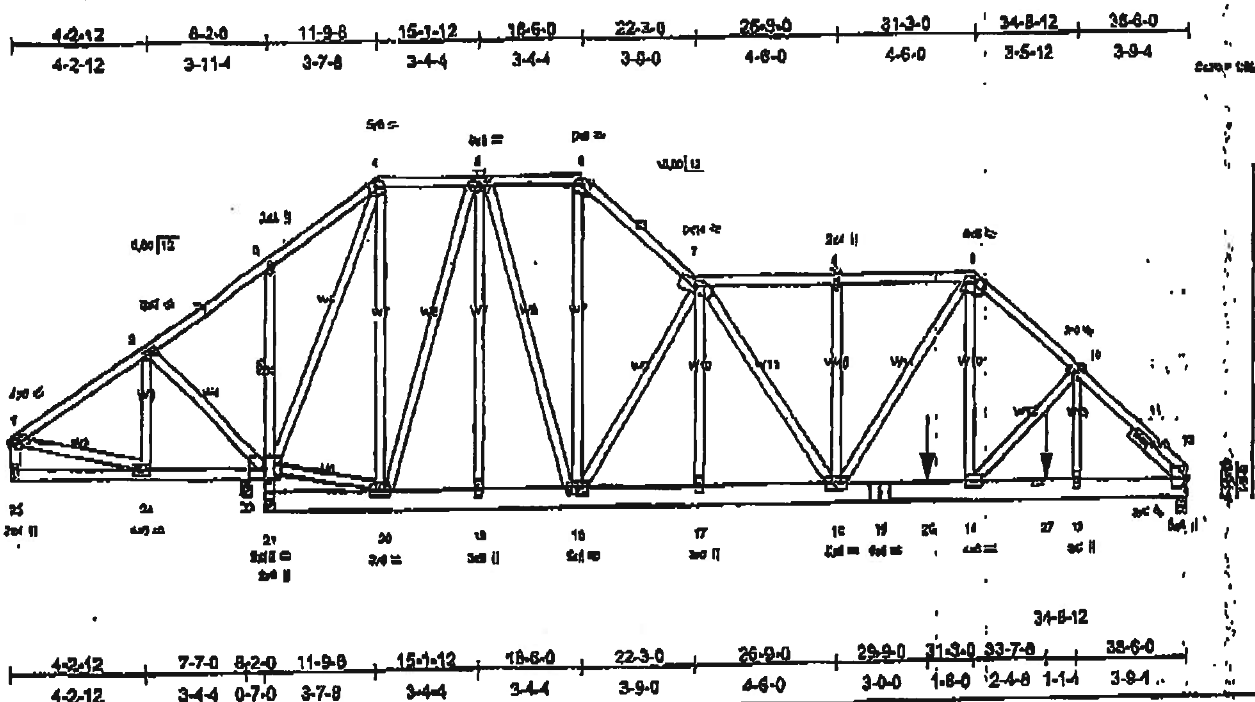


Plate Offsets (X,Y): [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [12:0-3-11,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.07	17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.99	Vert(TL)	-0.11	17	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.44	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 733 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D *Except*
B1 2 X 4 SYP No.2, B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 4 SYP No.3 2-4-6

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6, 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
1 Row at midpt 3-22

REACTIONS (lb/size) 12=2824/0-4-0, 25=508/Mechanical, 23=1619/0-4-0
Max Horz 25=-329(load case 2)
Max Uplift12=-971(load case 5), 25=-152(load case 4), 23=-557(load case 3)

Seal AS IS

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-608/172, 2-3=-501/297, 3-4=-579/343, 4-5=-470/443, 5-6=-1485/694, 6-7=-1865/811, 7-8=-2948/1085, 8-9=-2843/1085, 9-10=-3121/1250, 10-11=-3356/1237, 11-12=-3414/1264, 1-25=-490/146
BOT CHORD 24-25=-317/330, 23-24=-277/454, 22-23=-277/454, 21-22=-15/118, 3-21=-221/228, 20-21=-310/840, 19-20=-488/1210, 18-19=-488/1210, 17-18=-871/2488, 16-17=-870/2484, 15-16=-879/2413, 15-26=-879/2413, 14-26=-879/2413, 14-27=-944/2464, 13-27=-944/2464, 12-13=-944/2464
WEBS 2-24=-163/104, 2-22=-122/134, 20-22=-41/244, 4-22=-1113/421, 4-20=-431/1147, 5-20=-1168/466, 5-19=0/60, 5-18=-281/932, 6-18=-375/1002, 7-18=-1067/882, 7-17=0/58, 7-16=-164/302, 8-16=-215/227, 9-16=-187/414, 9-14=-592/1365, 10-14=-120/170, 10-13=-94/271, 1-24=-23/209

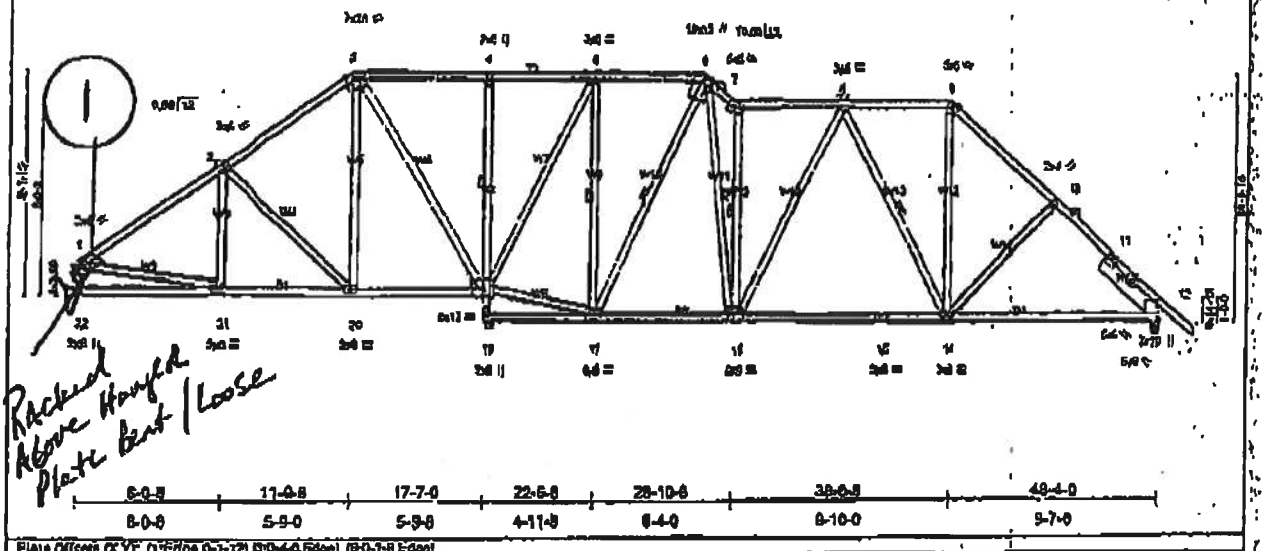
JOINT STRESS INDEX
1 = 0.33, 2 = 0.42, 3 = 0.35, 4 = 0.22, 5 = 0.61, 6 = 0.22, 7 = 0.56, 8 = 0.25, 9 = 0.60, 10 = 0.46, 11 = 0.00, 12 = 1.00, 12 = 0.02, 13 = 0.15, 14 = 0.81, 15 = 0.23, 16 = 0.29, 17 = 0.16, 18 = 0.32, 19 = 0.16, 20 = 0.32, 21 = 0.30, 22 = 0.38, 24 = 0.29 and 25 = 0.51

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 4 - 1 row at 0-9-0 oc, 2 X 8 - 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Refer to girder(s) for truss to truss connections.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 971 lb uplift at joint 12, 152 lb uplift at joint 25 and 557 lb uplift at joint 23.
9) Girder carries tie-in span(s): 7-3-0 from 29-9-0 to 33-7-8
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 660 lb down and 285 lb up at 33-7-8, and [illegible] lb down and 310 lb up at 29-9-0 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, 6-7=-54, 7-8=-54, 8-12=-54, 22-25=-30, 21-26=-30, 26-27=-120(F=-105), 12-27=-30

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

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L155379	T22	SPECIAL	1	1	



LOADING (psf)	SPACING 2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Increase 1.25	TC 0.68	Vert(LL)	-0.28 14-15	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.73	Vert(TL)	-0.62 14-15	>932	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.92	Horz(TL)	0.15 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)					Weight: 365 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.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 6 SYP No.1 3-4-8

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-5 max.): 3-4, 7-8.
BOT CHORD Rigid ceiling directly applied or 6-7-4 oc bracing. Except:
1 Row at midpt 4-19
WEBS 1 Row at midpt 6-17, 6-16, 7-16, 8-14

REACTIONS (lb/size) 22=2023/Mechanical, 12=2109/0-4-0
Max Horz 22=347(load case 3)
Max Uplift 22=-602(load case 4), 12=-731(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

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

1. **USE A 6x12 PRESS PLATE ONE FACE OR A 6x12 TRULOX PLATE ONE FACE WITH 8d's IN 3/4TH THE HOLES.**

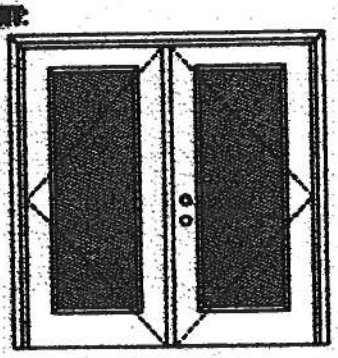
ROBERT W. WALL
LICENSE
No. 46021
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

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

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

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

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

MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series


136 Series


600 Series


822 Series

1/2 GLASS:


105 Series*


106, 160 Series*


120 Series*


200 Series*


12 RL, 28 RL, 34 RL 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.

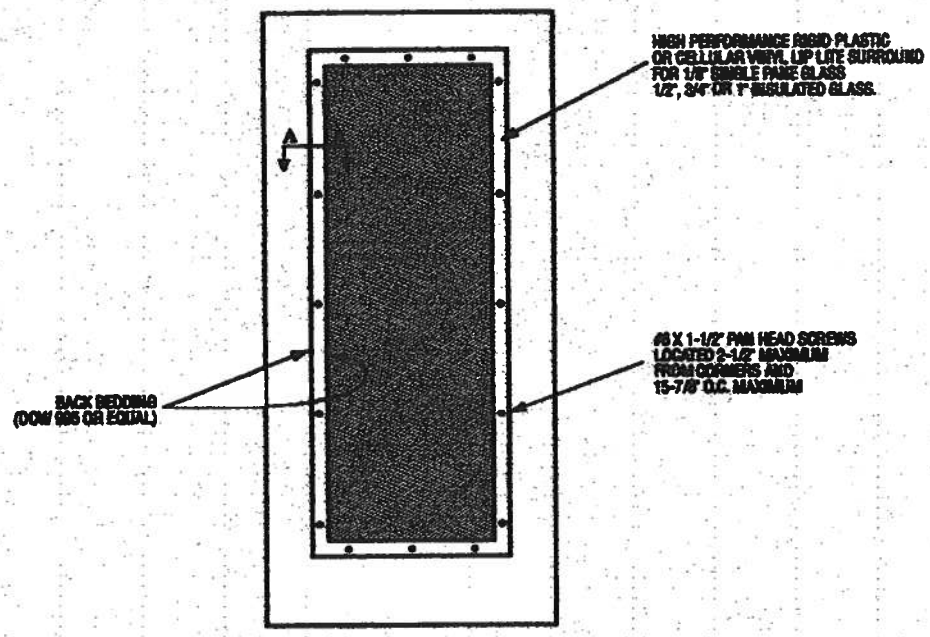
Johnson Entry Systems

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

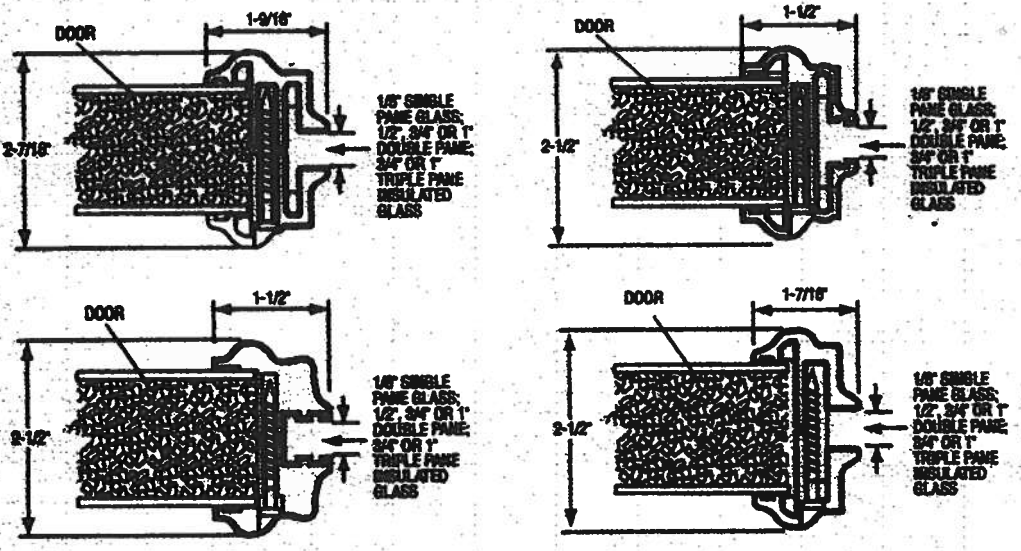
PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:


404 Series


416 Series


450 Series

FULL GLASS:


169 Series


114, 120, 122 Series


132 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

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

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

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

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

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

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

Kurt L Balthy

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

Johnson Entry Systems

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

PREMDOR Premium Quality Doors

Exclusively from Masonite

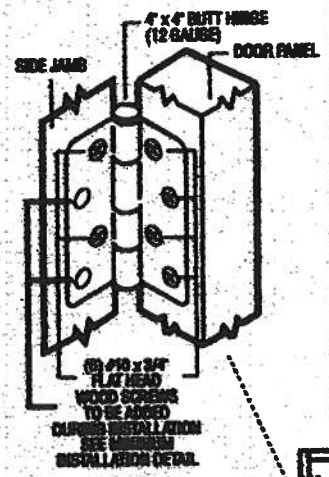
Masonite International Corporation

XX
Unit

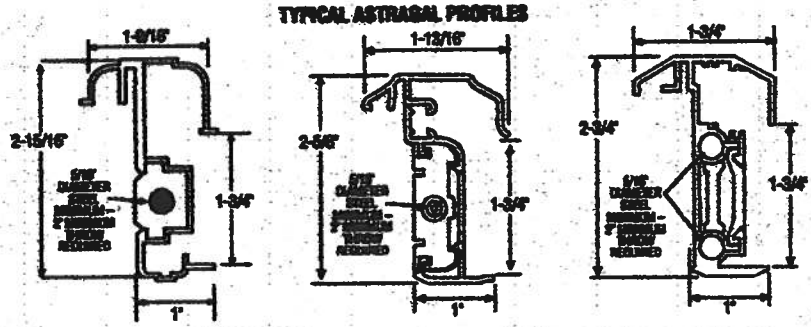
MAD-WL-MADO32-02

OUTSWING UNITS WITH DOUBLE DOOR

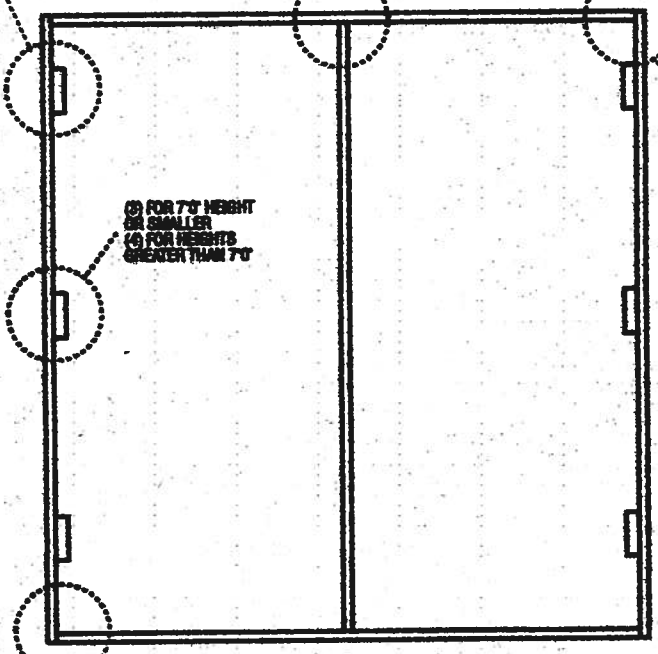
TYPICAL HINGE ATTACHMENT



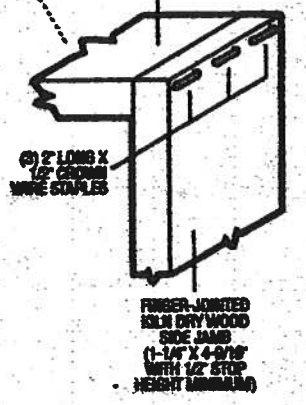
TYPICAL ASTRAGAL PROFILES



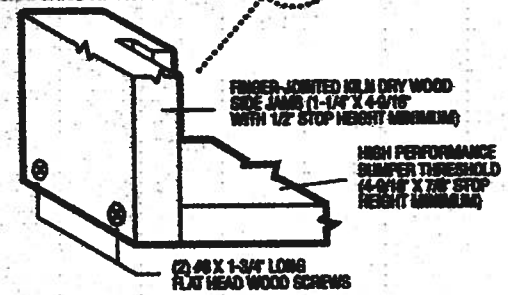
ALUMINUM EXTRUDED ASTRAGAL (0.09" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDRICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



March 29, 2012

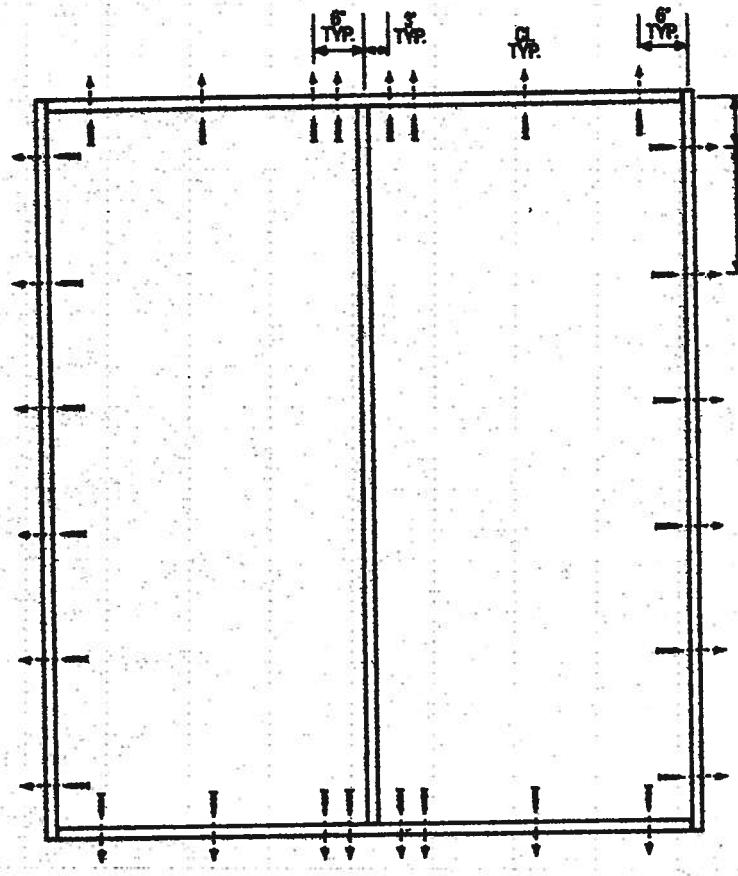
PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 6 per vertical framing member
- 3 per horizontal framing member

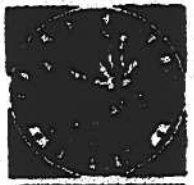
Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

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

Notes:

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



FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authentication | Organization Search | Organization Accreditation

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

Organization Type: Product Manufacturer

Manufact. Buildings

Approval Status: (ALL)

Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

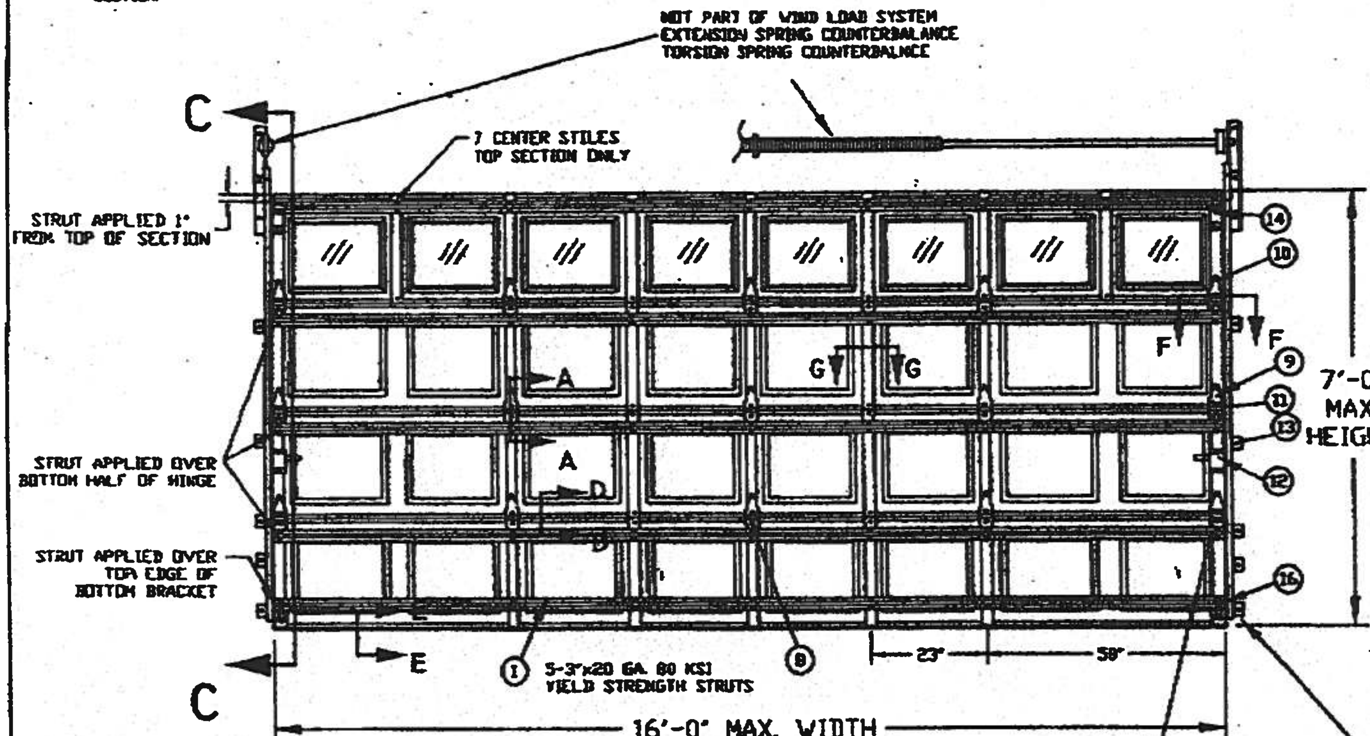
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Links: www.gadoor.com			

Displaying 1-1 of 1

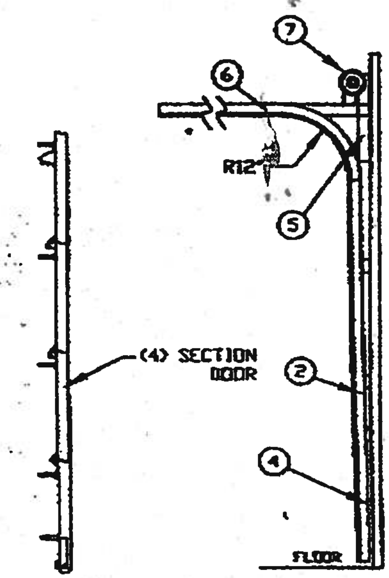
REV.	DATE	BY	DESCRIPTION
A - A	11-10-00	DW	SEE E.C.N. 831

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STEM IS 5¼" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. (A) DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION



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

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

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

LISTED [redacted]

REPORT No. 2202

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

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

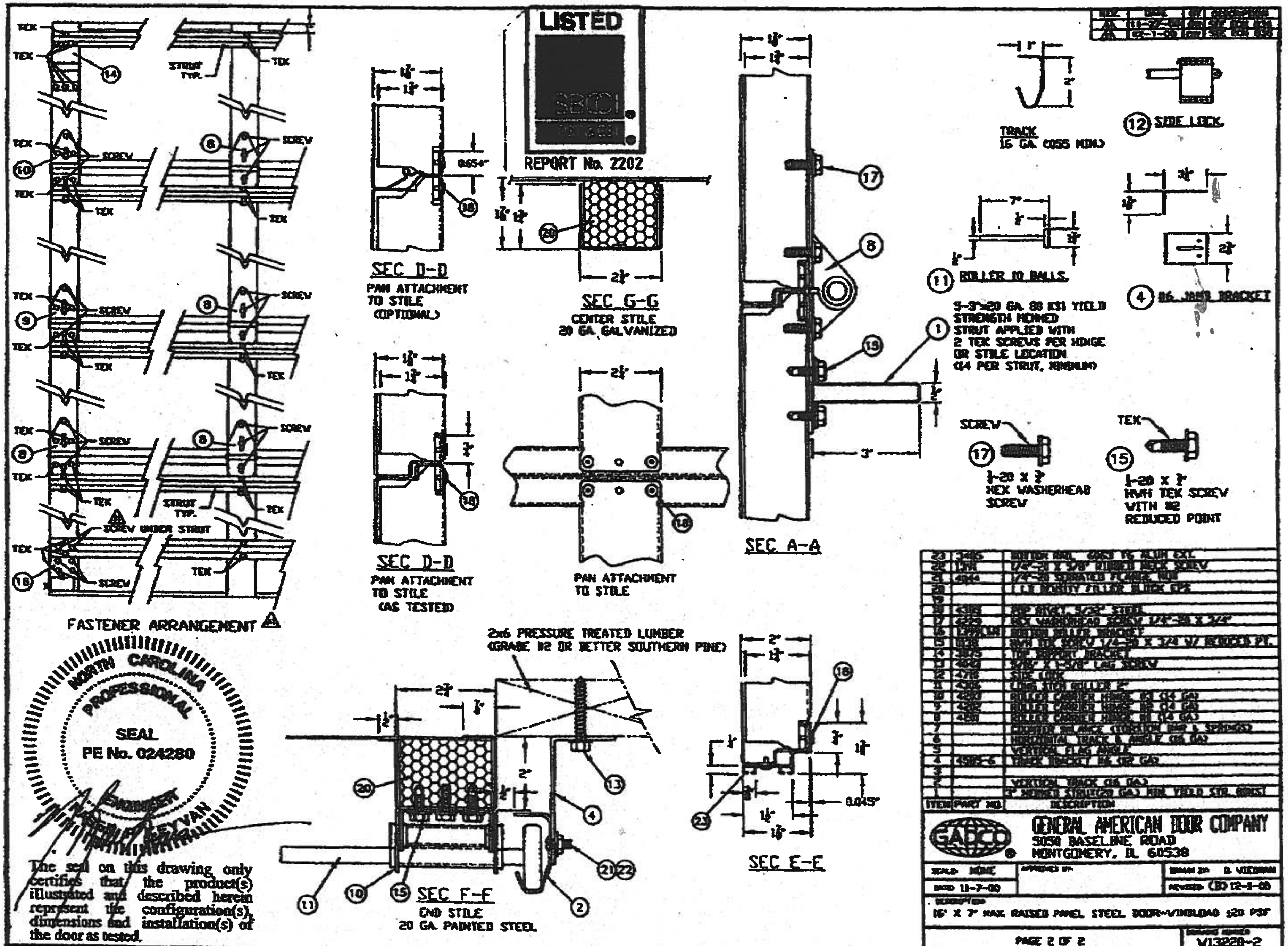
GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN (A)
SERIES 7524, EXTERIOR STEEL =.024" MIN (A)
(TESTED WITH WINDOWS)

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

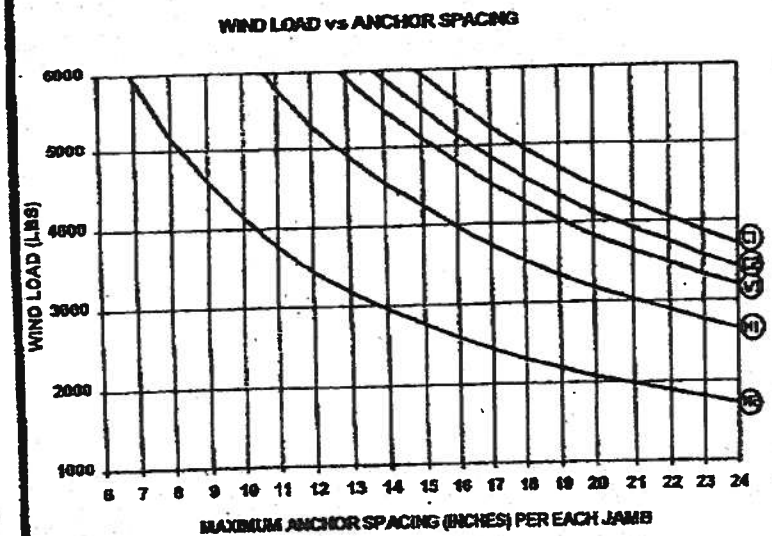
GADCO GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

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

FROM :Columbia Door Company FAX NO. :386-754-9993 Jun. 28 2004 07:38AM P3



ITEM	PART NO.	DESCRIPTION
23	[illegible]	BOTTOM RAIL 6063 T6 ALUM EXT.
22	[illegible]	1/4"-20 X 5/8" RIBBED NECK SCREW
21	4044	1/4"-20 SERRATED FLANGE NUT
20		1.1 LB DENSITY FILLER BLOCK EPS
19		
18	[illegible]	POP RIVET 5/32" STEEL
17	[illegible]	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	[illegible]	BOTTOM ROLLER BRACKET
15	[illegible]	HWH TEK SCREW 1/4"-20 X 3/4 W/ REDUCED PT.
14	[illegible]	TOP SUPPORT BRACKET
13	[illegible]	5/16" X 1-5/8" LAG SCREW
12	[illegible]	SIDE LOCK
11	[illegible]	LONG STEM ROLLER 2"
10	[illegible]	ROLLER CARRIER HINGE #3 (14 GA)
9	[illegible]	ROLLER CARRIER HINGE #2 (14 GA)
8	[illegible]	ROLLER CARRIER HINGE #1 (14 GA)
7		COUNTER BALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	[illegible]	TRACK BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		3" HEMMED STRUT (20 GA) MIN. YIELD STR. 80KSI



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

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

(M1) MASONRY/WOOD BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

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

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

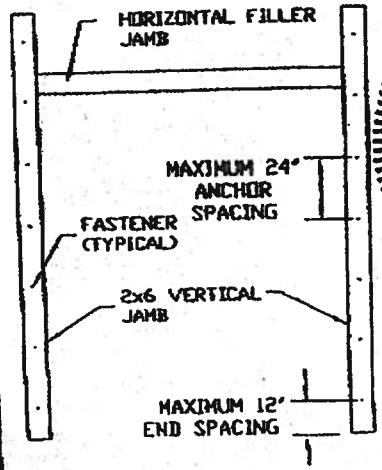
DESIGN LOAD (LBS/FT²) X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

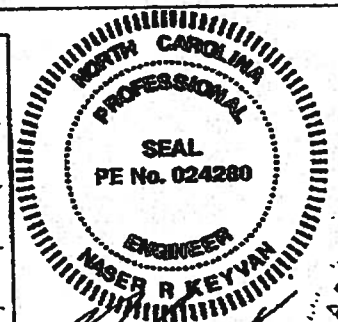
EXAMPLE

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

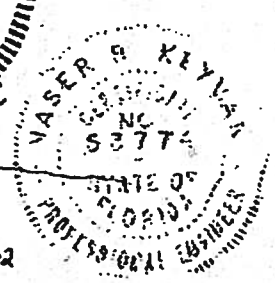
(C1) USE 22" SPACING
(C2) USE 21" SPACING
(V1) USE 19" SPACING
(M1) USE 16" SPACING
(M2) USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS





3/8/2002



2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

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

NOTES:

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

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

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

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

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

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

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

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

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

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

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

GADCO®

GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

DRAWN MDNE	APPROVED BY	ISSUED BY DV
DATE 8-30-99		REVISED

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

MASTER DRAWING NUMBER A10560 DRAWING NUMBER

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.

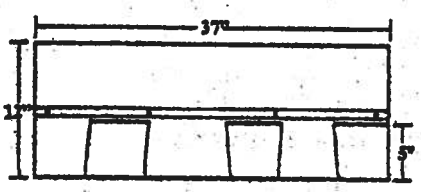
TAMKO Roofing Products, Inc.

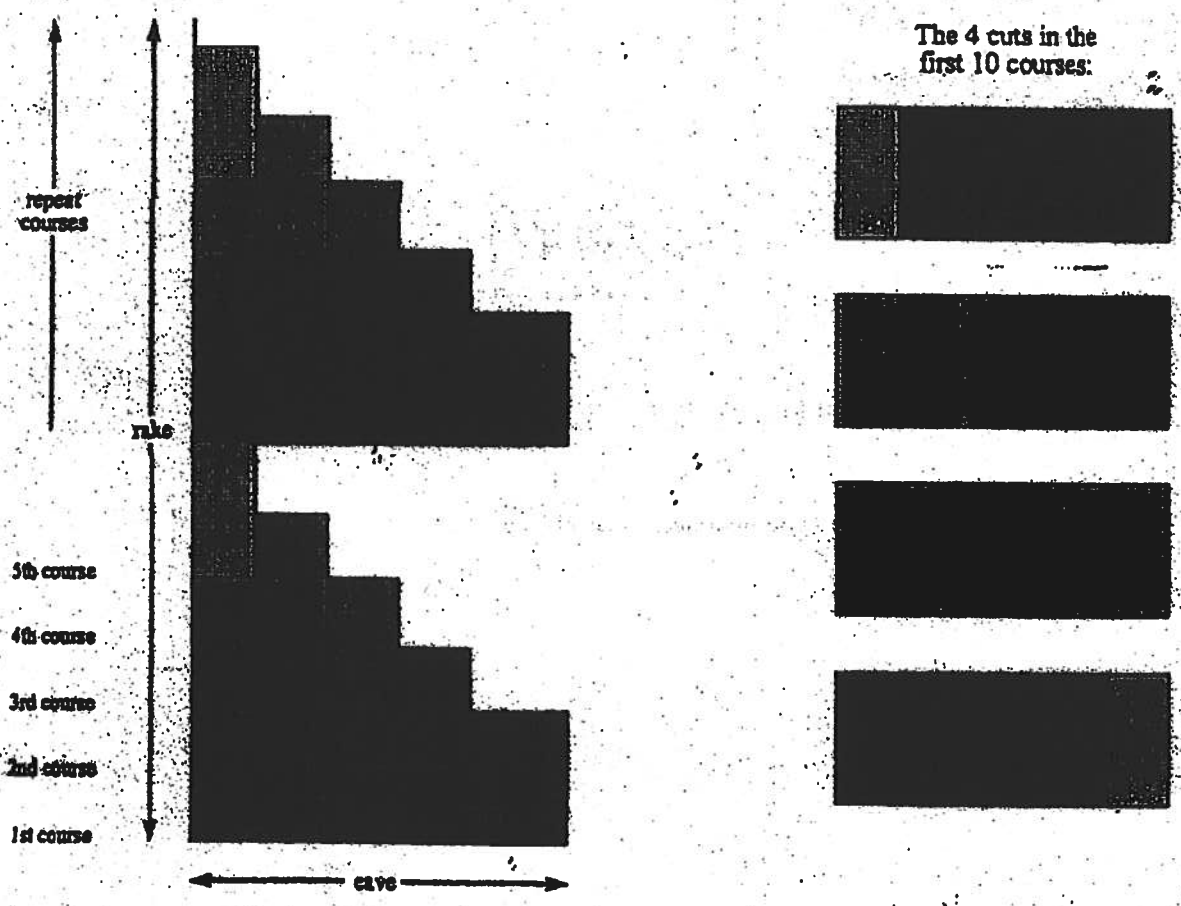
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-641-1925

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"





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.

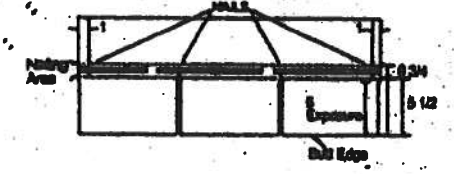
3. FASTENING

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.

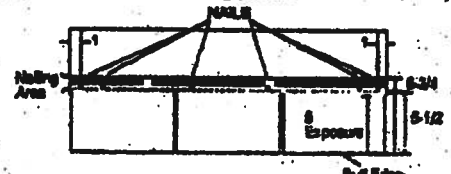
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or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

THREE-TAB ASPHALT SHINGLES

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

5. RE-ROOFING

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

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

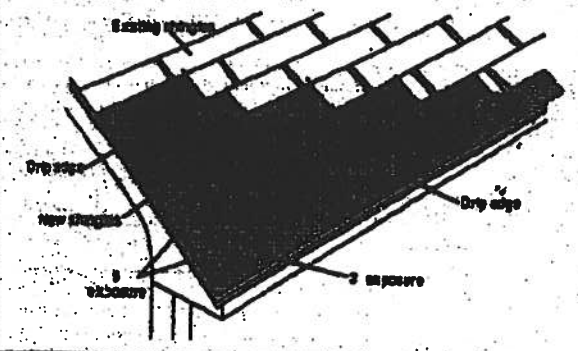
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing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

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

Starting Courses: 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 Courses: 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 in the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.



6. VALLEY APPLICATION

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

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

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

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

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

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

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

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

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

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

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

(CONTINUED from Pg. 3)

TAMKO ROOFING PRODUCTS

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

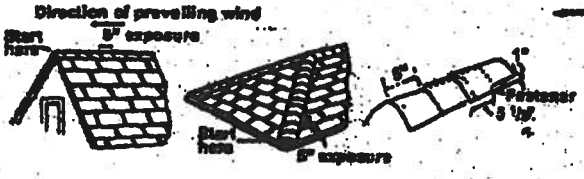
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

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 WHEN 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.

I

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

Rendered to:

MI HOME PRODUCTS, INC.

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

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

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

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:mlb

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

1 APRIL 2002

II

Architectural Testing

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

Rendered to

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

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

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

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

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

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

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

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

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

Finish: All aluminum was white.

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

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

Allan N. Reeves
1 APRIL 2002

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

Test Specimen Description: (Continued)

Weatherstripping:

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

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

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

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

Hardware:

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

ALLEN H. REEVES CERTIFICATE NO. 18554 STATE OF FLORIDA PROFESSIONAL ENGINEER

Allen H. Reeves
1 APRIL 2002

IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

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

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft^2	0.3 cfm/ft^2 max

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

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42"* 0.43"*	0.26" max. 0.26" max.

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

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.02" 0.02"	0.18" max. 0.18" max.

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

Paragraph	Title of Test - Test Method	Results	Allowed
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.

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

Paragraph	Title of Test - Test Method	Results	Allowed
	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.[illegible] max.

Allen N. Reeves
1 April 2002

ALLEN N. REEVES
CERTIFICATE NO. 18534
STATE OF FLORIDA
PROFESSIONAL ENGINEER

VI

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

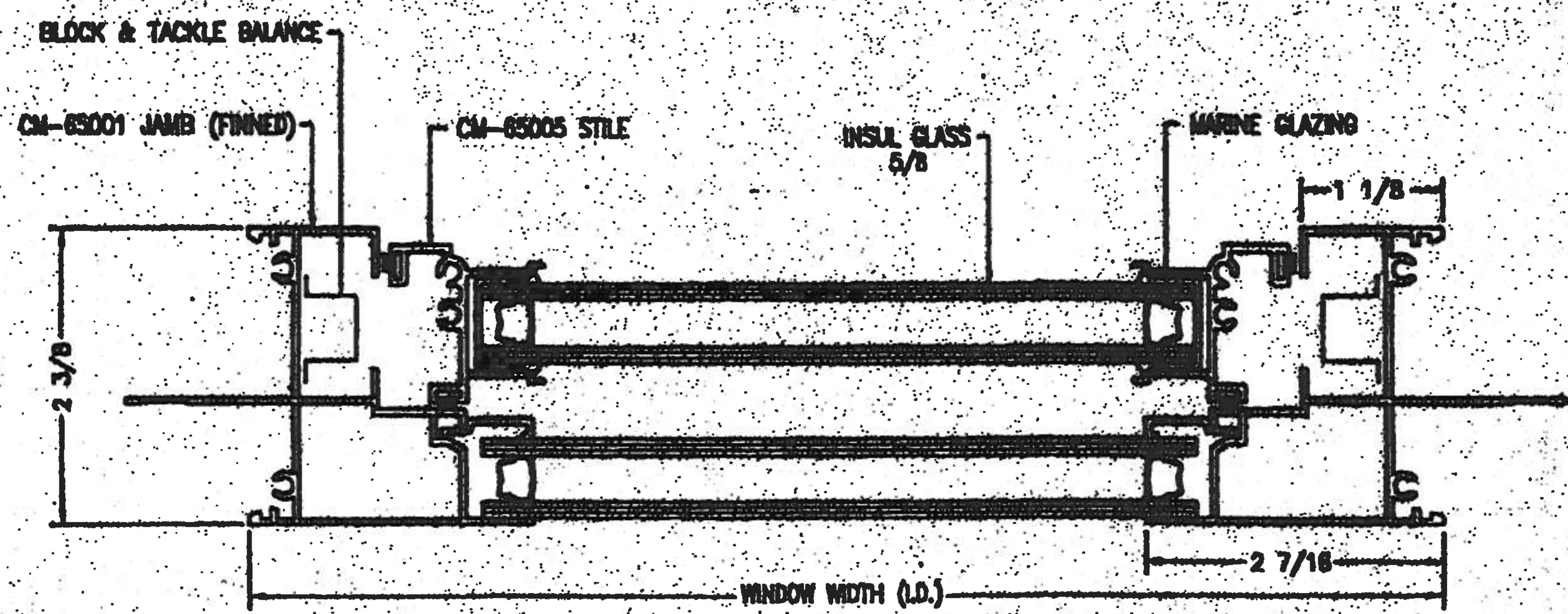
For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

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

MAH:nlb
01-41134.01

ALLEN N. REEVES
CERTIFICATE
NO. 1835
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

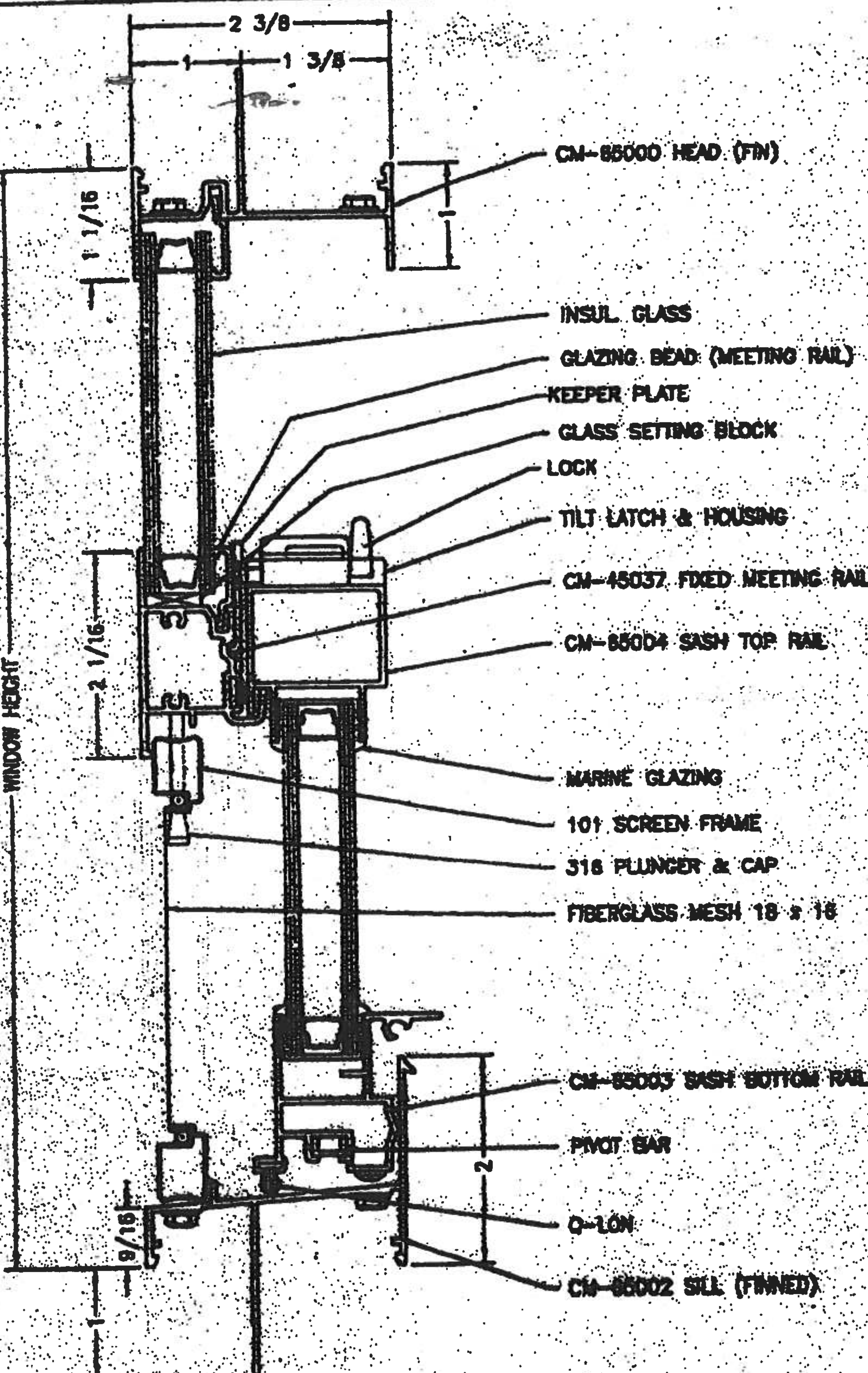


MI HOME PRODUCTS

TITLE: 650 SH FIN MAIN FRAME INSULATED GLASS HORIZONTAL CROSS SECTION

4-7-02 FULL 650-AS2 B

650-AS1 A



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

TITLE	650 SH FIN MAIN FRAME VERTICAL CROSS SECTION
V.M.R.	4-7-02
FULL	650-AS1 A

Residential System Sizing Calculation

Summary

Craig Nickelson
Southwood Meadows
Lake City, FL

Project Title:
Craig Nickelson Residence

Code Only
Professional Version
Climate: North

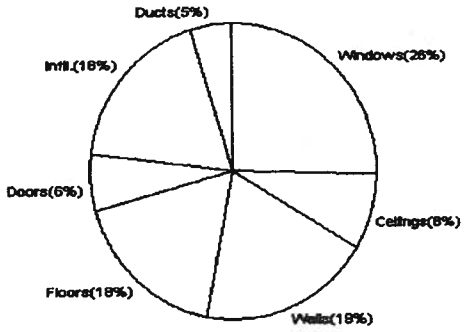
3/10/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature	31	F	Summer design temperature	93	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	39	F	Summer temperature difference	18	F
Total heating load calculation	**43181**	**Btuh**	**Total cooling load calculation**	**41724**	**Btuh**
Submitted heating capacity	48000	Btuh	Submitted cooling capacity	48000	Btuh
Submitted as % of calculated	111.2	%	Submitted as % of calculated	115.0	%

WINTER CALCULATIONS

Winter Heating Load (for 2716 sqft)

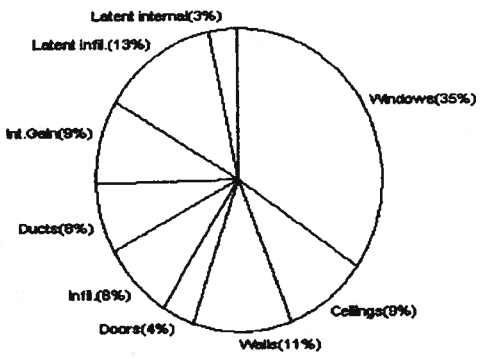
Load component			Load	
Window total	392	sqft	11089	Btuh
Wall total	2712	sqft	8407	Btuh
Door total	151	sqft	2709	Btuh
Ceiling total	2716	sqft	3531	Btuh
Floor total	See detail report		7606	Btuh
Infiltration	181	cfm	7783	Btuh
Subtotal			**41125**	**Btuh**
Duct loss			2056	Btuh
TOTAL HEAT LOSS			**43181**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2716 sqft)

Load component			Load	
Window total	392	sqft	14646	Btuh
Wall total	2712	sqft	4719	Btuh
Door total	151	sqft	1507	Btuh
Ceiling total	2716	sqft	3857	Btuh
Floor total			0	Btuh
Infiltration	159	cfm	3143	Btuh
Internal gain			3800	Btuh
Subtotal(sensible)			**31671**	**Btuh**
Duct gain			3167	Btuh
Total sensible gain			**34839**	**Btuh**
Latent gain(infiltration)			5505	Btuh
Latent gain(internal)			1380	Btuh
Total latent gain			**6885**	**Btuh**
TOTAL HEAT GAIN			**41724**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Summer

Residential Load - Component Details

Craig Nickelson
Southwood Meadows
Lake City, FL

Project Title:
Craig Nickelson Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F 3/10/2006

Window	Type Panes/SHGC/U/InSh/ExSh	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, DEF, N, N	N	1.5	6	18.3	0.0	18.3	22	22	403 Btuh
2	2, Clear, DEF, N, N	N	1.5	5	12.0	0.0	12.0	22	22	264 Btuh
3	2, Clear, DEF, N, N	N	1.5	7.33	36.0	0.0	36.0	22	22	792 Btuh
4	2, Clear, DEF, N, N	N	1.5	7.33	42.0	0.0	42.0	22	22	924 Btuh
5	2, Clear, DEF, N, N	W	1.5	7.16	30.0	0.4	29.6	22	72	2140 Btuh
6	2, Clear, DEF, N, N	W	1.5	6	30.0	1.5	28.5	22	72	2086 Btuh
7	2, Clear, DEF, N, N	W	1.5	2.66	12.0	3.5	8.5	22	72	690 Btuh
8	2, Clear, DEF, N, N	S	10	8	20.0	20.0	0.0	22	37	440 Btuh
9	2, Clear, DEF, N, N	S	1.5	2	13.5	13.5	0.0	22	37	297 Btuh
10	2, Clear, DEF, N, N	N	1.5	6.16	20.0	0.0	20.0	22	22	440 Btuh
11	2, Clear, DEF, N, N	S	1.5	2.33	8.0	8.0	0.0	22	37	176 Btuh
12	2, Clear, DEF, N, N	S	1.5	7	18.0	18.0	0.0	22	37	396 Btuh
13	2, Clear, DEF, N, N	E	1.5	7.16	18.0	0.2	17.8	22	72	1284 Btuh
14	2, Clear, DEF, N, N	E	1.5	7	16.0	0.7	15.3	22	72	1119 Btuh
15	2, Clear, DEF, N, N	E	1.5	5.16	12.0	0.2	11.8	22	72	852 Btuh
16	2, Clear, DEF, N, N	NE	1.5	6.33	16.0	0.0	16.0	22	50	800 Btuh
17	2, Clear, DEF, N, N	N	10	8	70.0	0.0	70.0	22	22	1540 Btuh
	Window Total				392					14646 Btuh

Walls	Type	R-Value	Area	HTM	Load
1	Frame - Exterior	13.0	1872.0	1.7	3257 Btuh
2	Frame - Exterior	13.0	840.0	1.7	1462 Btuh
	Wall Total		2712.0		4719 Btuh

Doors	Type	Area	HTM	Load
1	Wood - Exter	33.0	10.0	329 Btuh
2	Wood - Exter	40.0	10.0	399 Btuh
3	Wood - Exter	40.0	10.0	399 Btuh
4	Wood - Exter	18.0	10.0	180 Btuh
5	Wood - Exter	20.0	10.0	200 Btuh
	Door Total	151.0		1507 Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load
1	Under Attic/Dark	30.0	2716.0	1.4	3857 Btuh
	Ceiling Total		2716.0		3857 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab-On-Grade Edge Insulation	0.0	229.0 ft(p)	0.0	0 Btuh
2	Raised Wood	17.0	336.0 sqft	0.0	0 Btuh
	Floor Total		565.0		0 Btuh

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.35	27160	158.8	3143 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			159	3143 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Craig Nickelson
Southwood Meadows
Lake City, FL

Project Title:
Craig Nickelson Residence

Code Only
Professional Version
Climate: North

3/10/2006

Totals for Heating	**Subtotal**	**41125 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**2056 Btuh**
	Total Btuh Loss	**43181 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)

System Sizing Calculations - Winter

Residential Load - Component Details

Craig Nickelson
Southwood Meadows
Lake City, FL

Project Title:
Craig Nickelson Residence

Code Only
Professional Version
Climate: North

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

3/10/2006

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	18.3	28.3	519 Btuh
2	2, Clear, Metal, DEF	N	12.0	28.3	340 Btuh
3	2, Clear, Metal, DEF	N	36.0	28.3	1019 Btuh
4	2, Clear, Metal, DEF	N	42.0	28.3	1189 Btuh
5	2, Clear, Metal, DEF	W	30.0	28.3	849 Btuh
6	2, Clear, Metal, DEF	W	30.0	28.3	849 Btuh
7	2, Clear, Metal, DEF	W	12.0	28.3	340 Btuh
8	2, Clear, Metal, DEF	S	20.0	28.3	566 Btuh
9	2, Clear, Metal, DEF	S	13.5	28.3	382 Btuh
10	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
11	2, Clear, Metal, DEF	S	8.0	28.3	226 Btuh
12	2, Clear, Metal, DEF	S	18.0	28.3	509 Btuh
13	2, Clear, Metal, DEF	E	18.0	28.3	509 Btuh
14	2, Clear, Metal, DEF	E	16.0	28.3	453 Btuh
15	2, Clear, Metal, DEF	E	12.0	28.3	340 Btuh
16	2, Clear, Metal, DEF	NE	16.0	28.3	453 Btuh
17	2, Clear, Metal, DEF	N	70.0	28.3	1981 Btuh
	Window Total		392		11089 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1872	3.1	5803 Btuh
2	Frame - Exterior	13.0	840	3.1	2604 Btuh
	Wall Total		2712		8407 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		33	17.9	592 Btuh
2	Wood - Exter		40	17.9	718 Btuh
3	Wood - Exter		40	17.9	718 Btuh
4	Wood - Exter		18	17.9	323 Btuh
5	Wood - Exter		20	17.9	359 Btuh
	Door Total		151		2709Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2716	1.3	3531 Btuh
	Ceiling Total		2716		3531Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	229.0 ft(p)	31.6	7236 Btuh
2	Raised Wood/Enclosed	17	336.0 sqft	1.1	370 Btuh
	Floor Total		565		7606 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	27160(sqft)	181	7783 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			181	7783 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Craig Nickelson
Southwood Meadows
Lake City, FL

Project Title:
Craig Nickelson Residence

Code Only
Professional Version
Climate: North

3/10/2006

Internal gain	Occupants		Btuh/occupant		Appliance	Load	
	6	X	300	+	2000	3800	Btuh

Totals for Cooling	**Subtotal**	**31671**	**Btuh**
	Duct gain(using duct multiplier of 0.10)	**3167**	**Btuh**
	Total sensible gain	**34839**	**Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	**5505**	**Btuh**
	Latent occupant gain (6 people @ 230 Btuh per person)	**1380**	**Btuh**
	Latent other gain	**0**	**Btuh**
	TOTAL GAIN	**41724**	**Btuh**

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

Craig Nickelson

COLUMBIA COUNTY BUILDING DEPARTMENT

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

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

EFFECTIVE MARCH 1, 2002

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

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

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

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

Floor Plan including:

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

Foundation Plan including:

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

Roof System:

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

Wall Sections including:

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

☐ ☐ b) Wood frame wall

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

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

Floor Framing System:

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

☑ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☑ ☐ d) Attachment of joist to girder

☑ ☐ e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

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

☑ ☐ b) Ceiling fans

☑ ☐ c) Smoke detectors

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

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

☐ ☐ f) Appliances and HVAC equipment

HVAC information

☑ ☐ a) Manual J sizing equipment or equivalent computation

☑ ☐ b) Exhaust fans in bathroom

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

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

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

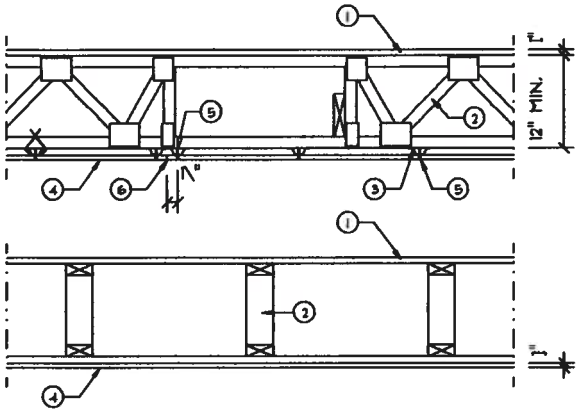
a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

Design No. L528

Unrestrained Assembly Rating-1 Hr.
Finish Rating-22 Min.



1. Flooring Systems - Finish Flooring - 4 ft by 8 ft by 23/32 in. thick interior plywood with exterior glue and T & G edge detail along 8 ft sides. Plywood installed perpendicular to trusses with end joints staggered 4 ft. Plywood secured to trusses with construction adhesive and No. 6d ringed shank nails Adhesive applied as 3/8 in. diam bead to top chord of trusses and groove edges of plywood. Nails spaced 12 in. O.C. along each truss. As an option, lightweight insulating concrete with Perlite or Vermiculite Aggregate' or gypsum concrete may be placed on the flooring. The min thickness of insulating concrete shall be 3/4 in. The max thickness shall be determined by job site conditions. A thin plastic or paper vapor retarder may be placed on plywood prior to pouring the concrete. See Perlite Aggregate (IFFX) and Vermiculite Aggregate (CJZZ).

2. Trusses - Parallel chord trusses spaced a max 24 in. O.C. fabricated from nom 2 by 4 in. lumber with lumber orientated either vertically or horizontally. Truss members secured together with No. 20 MSG galv steel truss plates. Plates include 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other made from the same punch creating a split tooth type plate. Each tooth has a chisel point on its outside edge, with these points being diagonally opposite from each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx 7/8 in. centers with four rows of teeth per in. of plate width.

3. Furring Channels - Formed of No. 25 MSG galv steel spaced 24 in. O.C. perpendicular to trusses. Channels secured to trusses with double strand of No. 18 SWG galv steel wire spaced 48 in. O.C. Channels spliced with adjacent pieces overlapped 6 in. and tied with double strand of No. 18 SWG galv steel wire at each end of overlap.

3A. Resilient Channel - (Not shown) - As an alternate to Item 3 - Formed from No. 26 MSG galv steel. spaced 16 in. O.C. perpendicular to trusses. Channels secured to trusses with Type S, 1-1/4 in. long steel screws spaced 24 in. O.C. Channels overlapped at splice 4 in.

4. Wallboard. Gypsum - 5/8 in. thick, 4 ft wide. Sheets of wallboard installed with long dimension perpendicular to furring or resilient channels with 1 in. long wallboard screws spaced 12 in. O.C. and located a min 1-1/2 in. from side and end joints. At end joints, two furring or resilient channels are used which extend a min of 6 in. beyond end of joint.

Canadian Gypsum Co., Ltd.-Type C.
Celotex Corp.-Type FRP.
Domtar Gypsum-Type 5
Georgia-Pacific Corp., Gypsum Div.-Type GPFS-C.
Gold Bond Building Products-Type FSW-G.
United States Gypsum Co.-Types C, FCC, or IP-X2.

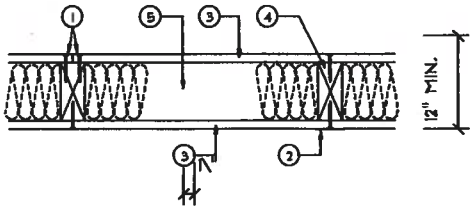
5 Screw, Wallboard -1 in long, Type S, 9/64 in. diam. self-drilling and self-tapping. Bugle head.

6. Finishing System - (Not shown) - Paper tape embedded in cementitious compound over joints with edges of compound feathered out and exposed screw heads covered with compound. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

•Bearing the UL Classification Marking

Design No. U317

Bearing Wall Rating-45 Min.
Finish Rating-See Item 3



1. Nails - 5d coated, 1-5/8 in. long. 0.086 in. shank diameter 15/64 in. diameter heads, spaced 7 in OC.

2. Joints - Exposed or covered with fiber tape and joint compound except where required for specific edge configuration. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

2. Wallboard, Gypsum - 1/2 in. thick wallboard paper or vinyl surfaced with bevelled, square or tapered edges. Wallboard other than 48 in. width to be installed horizontally.

Celotex Corp. - Type 1, Type SF3 (Finish rating 15 min.) Type A (Finish rating 11 min.) Type B and Type C (Finish rating 15 min.) or Type FRP.

Georgia Pacific Corp., Gypsum Div. - Type GPFS 1 (Finish rating 15 min.) or Type GPSF 3 (Finish rating 15 min.).

Gold Bond Building Products - Types FSK-1, FSK-G, FSW-1 or FSW-G (Finish rating 15 min.) Types FSK or FSW (Finish rating 15 min.).

United States Gypsum Co. - Types C, SCX, SHX, WRX, WR-C, IP-X2 or Type B (Finish rating 20 min.).

4. Wood Studs-Nom 2 by 4 in., spaced 16 in. O.C. effectively cross-braced.

3. Batts and Blankets* - (Optional)-Mineral wool insulation, partially or completely filling stud cavity.

USG Interiors Inc.
United States Gypsum Co.

•Bearing the UL Classification Marking

AR7005 30 Jun 2005

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.

#24711

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB100476 Company Phone No. 386-755-9311
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: Tampa Builders Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 347 S.W Magdalen Terrace Lake City, FL

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

Section 4: Treatment Information

Date(s) of Treatment(s) 9-11-06
Brand Name of Product(s) Used Bora-Care
EPA Registration No. 64405-1
Approximate Final Mix Solution % .23%
Approximate Size of Treatment Area: Sq. ft. 3614 Linear ft. 277 Linear ft. of Masonry Voids 0
Approximate Total Gallons of Solution Applied 7
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 _____ 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)

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 01-5S-16-03405-119 **Building permit No.** 000024711

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

Permit Holder JAKE KIRSCH **Waste:** 117.25

Owner of Building CRAIG NICKELSON **Total:** 156.31

Location: 386 SW MEADOW TERR(SOUTHWOD MEADOWS,LOT 19)

Date: 03/02/2007

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Project Information for:	L158379		
Builder:	COMPASS BUILDERS	Date:	4/18/2006
Lot:	Lot 19 SOUTHWOOD MEADOWS	Start Number:	**1434**
Subdivision:	N/A		
County or City:	COLUMBIA COUNTY		
Truss Page Count:	106		

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)

KIRSCH,JACOB CHRISTOPHER CBC1253775
Address: 1030 SW ROSSBROUGH CT #101
LAKE CITY,FLORIDA 32025 Designer: **70**

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	0418061434	4/18/2006	41	PB06	0418061474	4/18/2006
2	CJ1A	0418061435	4/18/2006	42	PB07	0418061475	4/18/2006
3	CJ1B	0418061436	4/18/2006	43	PB08	0418061476	4/18/2006
4	CJ1C	0418061437	4/18/2006	44	PB09	0418061477	4/18/2006
5	CJ1D	0418061438	4/18/2006	45	PB10	0418061478	4/18/2006
6	CJ2	0418061439	4/18/2006	46	PB11	0418061479	4/18/2006
7	CJ2A	0418061440	4/18/2006	47	PB12	0418061480	4/18/2006
8	CJ3	0418061441	4/18/2006	48	PB13	0418061481	4/18/2006
9	CJ3A	0418061442	4/18/2006	49	PB14	0418061482	4/18/2006
10	CJ3B	0418061443	4/18/2006	50	PB15	0418061483	4/18/2006
11	CJ3C	0418061444	4/18/2006	51	PB16	0418061484	4/18/2006
12	CJ3E	0418061445	4/18/2006	52	PB17	0418061485	4/18/2006
13	CJ4	0418061446	4/18/2006	53	PB18	0418061486	4/18/2006
14	CJ4A	0418061447	4/18/2006	54	PB19	0418061487	4/18/2006
15	CJ4C	0418061448	4/18/2006	55	T01	0418061488	4/18/2006
16	CJ5	0418061449	4/18/2006	56	T01G	0418061489	4/18/2006
17	CJ5A	0418061450	4/18/2006	57	T02	0418061490	4/18/2006
18	CJ5C	0418061451	4/18/2006	58	T03	0418061491	4/18/2006
19	CJ5F	0418061452	4/18/2006	59	T03G	0418061492	4/18/2006
20	CJ6	0418061453	4/18/2006	60	T04	0418061493	4/18/2006
21	EJ6	0418061454	4/18/2006	61	T05	0418061494	4/18/2006
22	EJ7	0418061455	4/18/2006	62	T06	0418061495	4/18/2006
23	EJ7A	0418061456	4/18/2006	63	T06G	0418061496	4/18/2006
24	EJ7B	0418061457	4/18/2006	64	T07	0418061497	4/18/2006
25	EJ7C	0418061458	4/18/2006	65	T08	0418061498	4/18/2006
26	EJ7D	0418061459	4/18/2006	66	T08G	0418061499	4/18/2006
27	EJ7E	0418061460	4/18/2006	67	T09	0418061500	4/18/2006
28	EJ8	0418061461	4/18/2006	68	T10	0418061501	4/18/2006
29	HJ4	0418061462	4/18/2006	69	T11	0418061502	4/18/2006
30	HJ6	0418061463	4/18/2006	70	T11A	0418061503	4/18/2006
31	HJ7	0418061464	4/18/2006	71	T12	0418061504	4/18/2006
32	HJ8	0418061465	4/18/2006	72	T12A	0418061505	4/18/2006
33	HJ8A	0418061466	4/18/2006	73	T13	0418061506	4/18/2006
34	HJ12	0418061467	4/18/2006	74	T14	0418061507	4/18/2006
35	PB01	0418061468	4/18/2006	75	T15	0418061508	4/18/2006
36	PB01A	0418061469	4/18/2006	76	T16	0418061509	4/18/2006
37	PB02	0418061470	4/18/2006	77	T17	0418061510	4/18/2006
38	PB03	0418061471	4/18/2006	78	T18	0418061511	4/18/2006
39	PB04	0418061472	4/18/2006	79	T19	0418061512	4/18/2006
40	PB05	0418061473	4/18/2006	80	T20	0418061513	4/18/2006

APR 18 2006

Project Information for:	L158379		
Builder:	COMPASS BUILDERS	Date:	4/18/2006
Lot:	Lot 19 SOUTHWOOD MEADC	Start Number:	1434
Subdivision:	N/A		
County or City:	COLUMBIA COUNTY		
Truss Page Count:	106		

Truss Design Load Information (UNO) Design Program: MiTek 5.2 / 6

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)
KIRSCH,JACOB CHRISTOPHER CBC1253775
Address: 1030 SW ROSSBROUGH CT #101
LAKE CITY,FLORIDA 32025

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 1-1995 Section 2.2
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
81	T21	0418061514	4/18/2006				
82	T22	0418061515	4/18/2006				
83	T23	0418061516	4/18/2006				
84	T24	0418061517	4/18/2006				
85	T25	0418061518	4/18/2006				
86	T26	0418061519	4/18/2006				
87	T27	0418061520	4/18/2006				
88	T28	0418061521	4/18/2006				
89	T29	0418061522	4/18/2006				
90	T30	0418061523	4/18/2006				
91	T31	0418061524	4/18/2006				
92	T32	0418061525	4/18/2006				
93	T33	0418061526	4/18/2006				
94	T34	0418061527	4/18/2006				
95	T35	0418061528	4/18/2006				
96	T36	0418061529	4/18/2006				
97	T37	0418061530	4/18/2006				
98	T38	0418061531	4/18/2006				
99	T39	0418061532	4/18/2006				
100	T40	0418061533	4/18/2006				
101	T41	0418061534	4/18/2006				
102	T43	0418061535	4/18/2006				
103	T44	0418061536	4/18/2006				
104	T45	0418061537	4/18/2006				
105	T46	0418061538	4/18/2006				
106	T47	0418061539	4/18/2006				

APR 18 2006

Licensee Details

Licensee Information

Name:	**KIRSCH, JACOB CHRISTOPHER (Primary Name)**
	COMPASS BUILDERS & ASSOCIATES CORP (DBA Name)
Main Address:	**1030 SW ROSSBROUGH CT # 101** **LAKE CITY Florida 32025**
County:	**COLUMBIA**
License Mailing:	
LicenseLocation:	**197 SW WATERFORD CT #106** **LAKE CITY FL 32025**
County:	**COLUMBIA**

License Information

License Type:	**Certified Building Contractor**
Rank:	**Cert Building**
License Number:	**CBC1253775**
Status:	**Current,Active**
Licensure Date:	**01/06/2006**
Expires:	**08/31/2006**

Special Qualifications	Qualification Effective
Qualified Business License Required	01/06/2006

View Related License Information

View License Complaint

Dwg.#0418061434

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ1	JACK	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:28 2006 Page 1

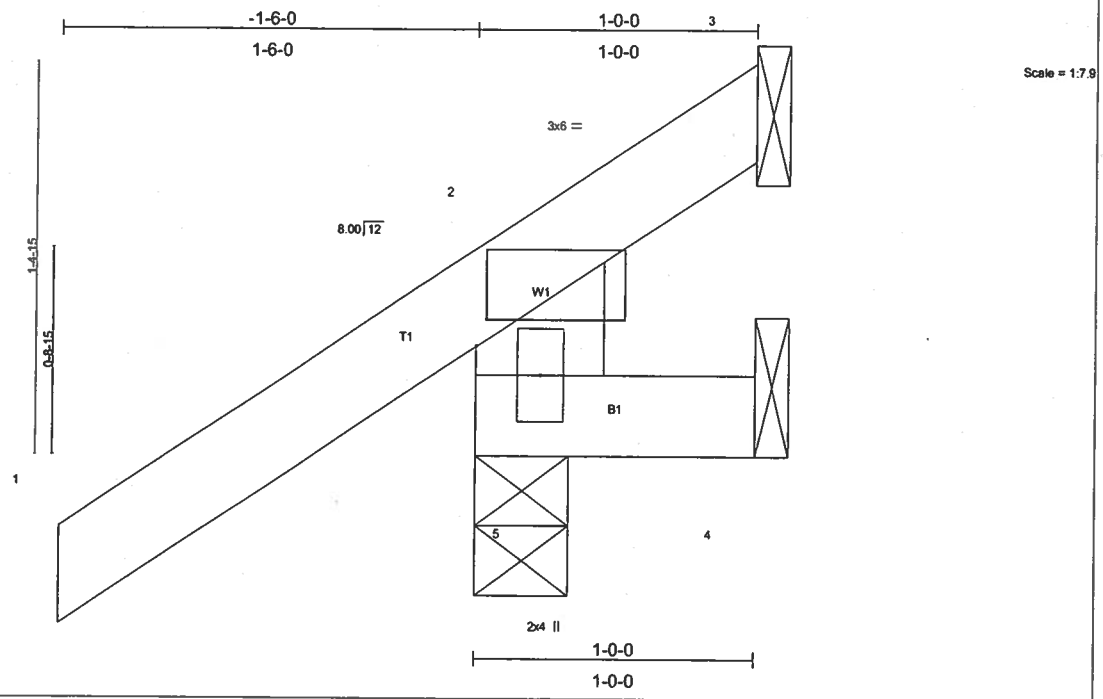


Plate Offsets (X,Y): [2:0-0-7,0-1-3]

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	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	0.00	5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 7 lb	

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

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

REACTIONS (lb/size) 5=232/0-4-0, 4=-36/Mechanical, 3=-39/Mechanical
Max Horz 5=98(load case 5)
Max Uplift5=-194(load case 5), 4=-36(load case 1), 3=-39(load case 1)
Max Grav 5=232(load case 1), 4=35(load case 5), 3=38(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-173/191, 1-2=0/52, 2-3=-44/25
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 194 lb uplift at joint 5, 36 lb uplift at joint 4 and 39 lb uplift at joint 3.

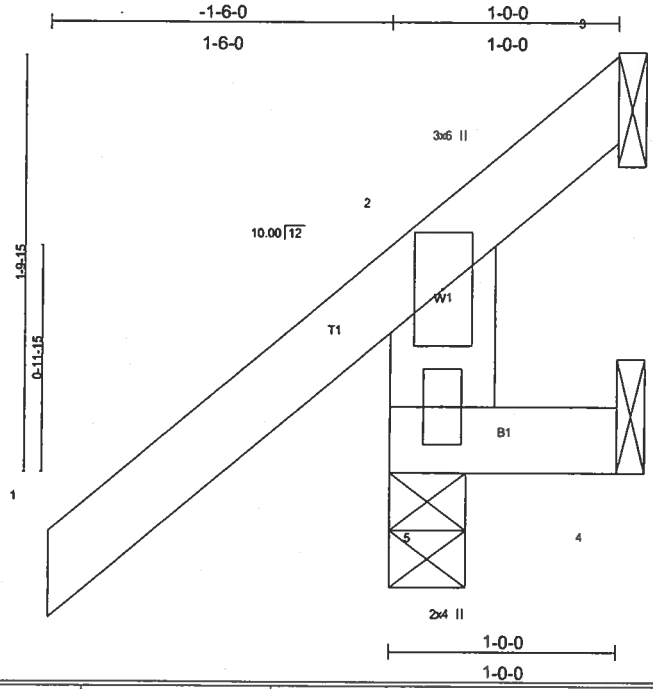
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061435

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ1A	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:28 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	0.00	5	>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: 8 lb	

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

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

REACTIONS (lb/size) 5=232/0-4-0, 4=-34/Mechanical, 3=-40/Mechanical
Max Horz 5=122(load case 5)
Max Uplift5=-159(load case 5), 4=-34(load case 1), 3=-40(load case 1)
Max Grav 5=232(load case 1), 4=10(load case 5), 3=28(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-175/180, 1-2=0/60, 2-3=-52/22
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 159 lb uplift at joint 5, 34 lb uplift at joint 4 and 40 lb uplift at joint 3.

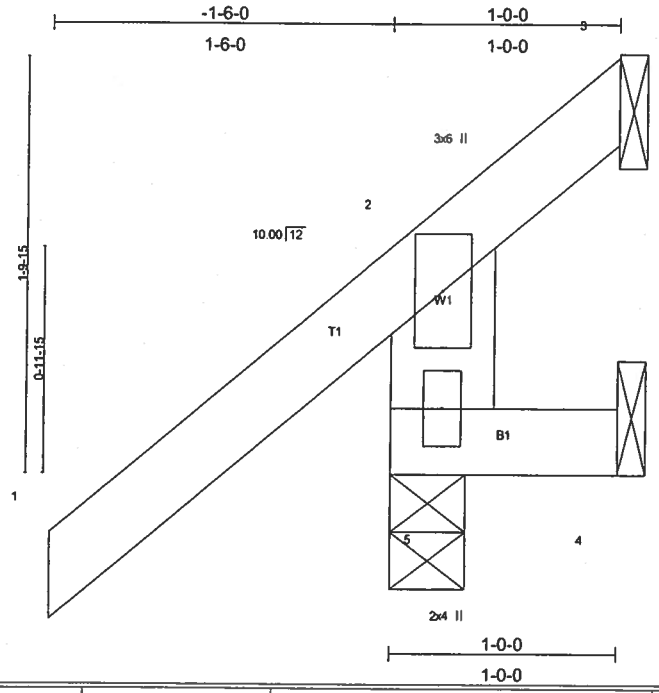
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061436

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ1B	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:29 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	0.00	5	>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: 8 lb	

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

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

REACTIONS (lb/size) 5=232/0-4-0, 4=-34/Mechanical, 3=-40/Mechanical
Max Horz 5=122(load case 5)
Max Uplift5=-159(load case 5), 4=-34(load case 1), 3=-40(load case 1)
Max Grav 5=232(load case 1), 4=10(load case 5), 3=28(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-175/180, 1-2=0/60, 2-3=-52/22
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 159 lb uplift at joint 5, 34 lb uplift at joint 4 and 40 lb uplift at joint 3.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061437

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ1C	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:29 2006 Page 1

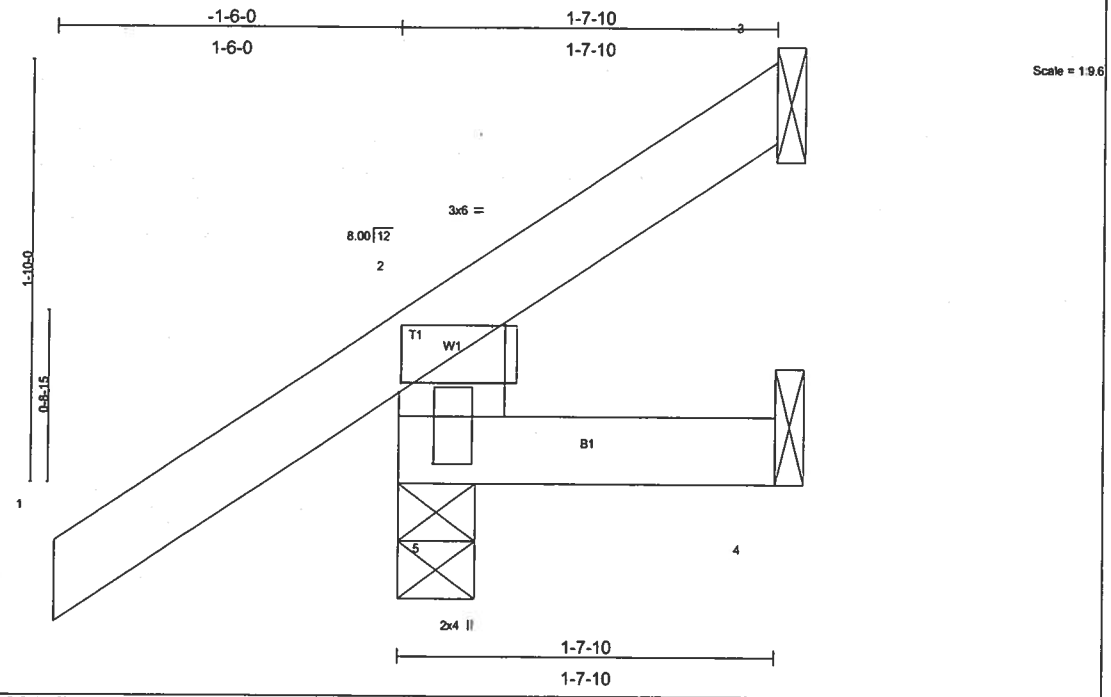


Plate Offsets (X,Y): [2:0-0-2,0-0-8], [5:0-2-8,0-1-13]

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	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	0.00	5	>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: 9 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=210/0-4-0, 4=-5/Mechanical, 3=6/Mechanical
Max Horz 5=117(load case 5)
Max Uplift5=-147(load case 5), 4=-5(load case 1), 3=-18(load case 6)
Max Grav 5=210(load case 1), 4=17(load case 5), 3=15(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-163/162, 1-2=0/52, 2-3=-39/8
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 147 lb uplift at joint 5, 5 lb uplift at joint 4 and 18 lb uplift at joint 3.

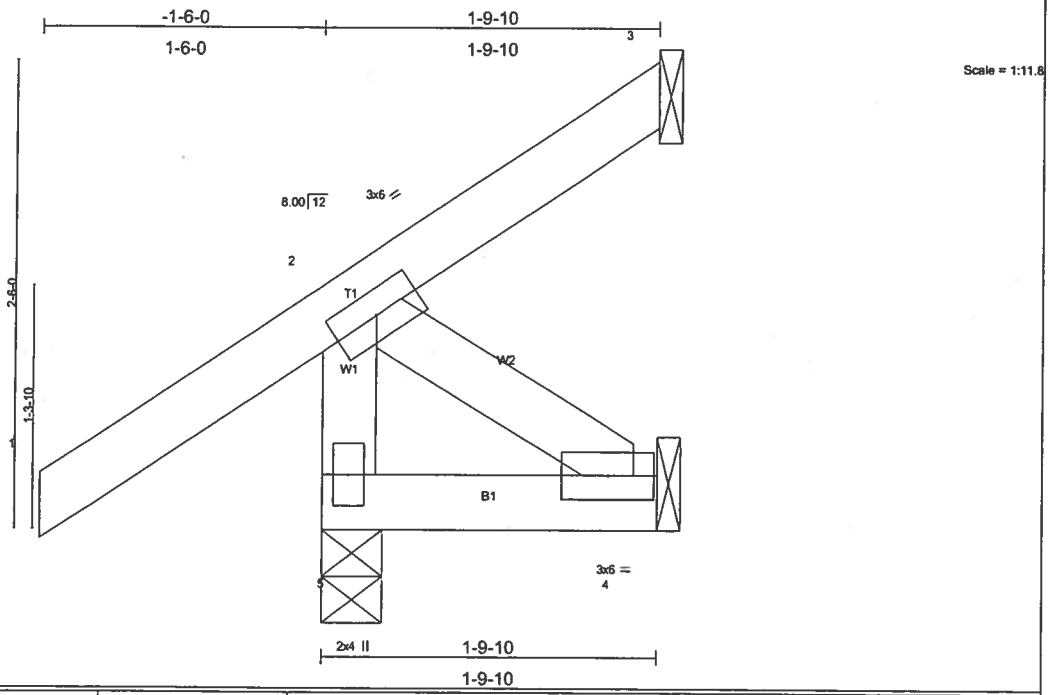
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061438

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ1D	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:30 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.00	5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=201/0-4-0, 4=23/Mechanical, 3=-0/Mechanical
Max Horz 5=121(load case 5)
Max Uplift5=-106(load case 5), 4=-100(load case 5), 3=-8(load case 8)
Max Grav 5=201(load case 1), 4=23(load case 1), 3=26(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-178/109, 1-2=0/49, 2-3=-49/14
BOT CHORD 4-5=-137/0
WEBS 2-4=-0/167

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; 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 106 lb uplift at joint 5, 100 lb uplift at joint 4 and 8 lb uplift at joint 3.

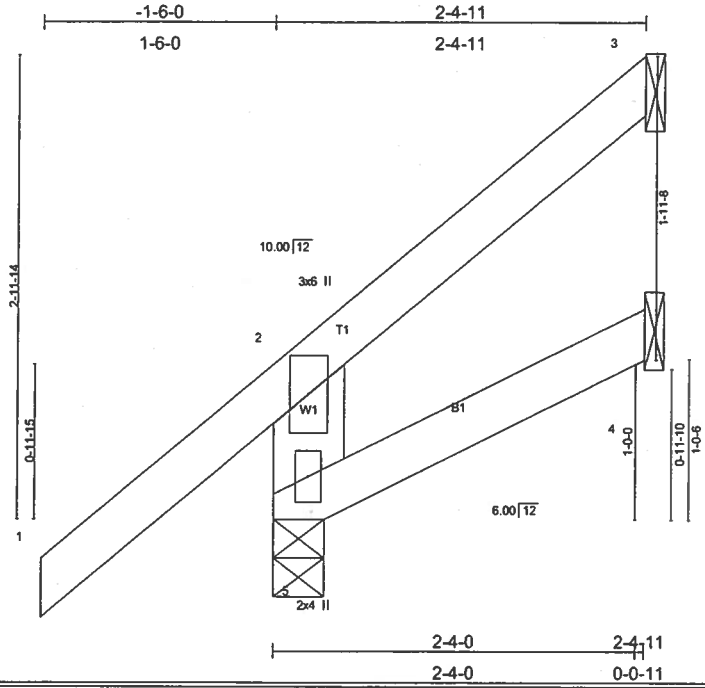
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061439

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ2	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:30 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	0.01	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 14 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 5=220/0-4-0, 3=33/Mechanical, 4=16/Mechanical
Max Horz 5=221(load case 5)
Max Uplift5=-111(load case 5), 3=-66(load case 5), 4=-41(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-174/121, 1-2=0/60, 2-3=-62/14
BOT CHORD 4-5=-54/5

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; 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) Bearing at joint(s) 5 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 111 lb uplift at joint 5, 66 lb uplift at joint 3 and 41 lb uplift at joint 4.

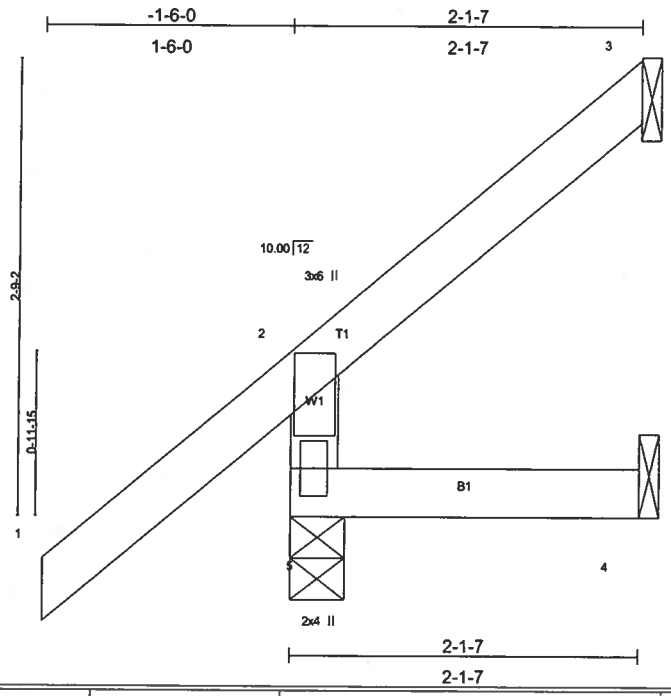
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061440

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ2A	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:31 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.06	Vert(TL)	-0.00	5	>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: 11 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 2-1-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=207/0-4-0, 3=24/Mechanical, 4=18/Mechanical
Max Horz 5=180(load case 5)
Max Uplift5=-94(load case 5), 3=-46(load case 5), 4=-13(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-168/138, 1-2=0/57, 2-3=-50/13
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 94 lb uplift at joint 5, 46 lb uplift at joint 3 and 13 lb uplift at joint 4.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061441

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ3	JACK	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:32 2006 Page 1

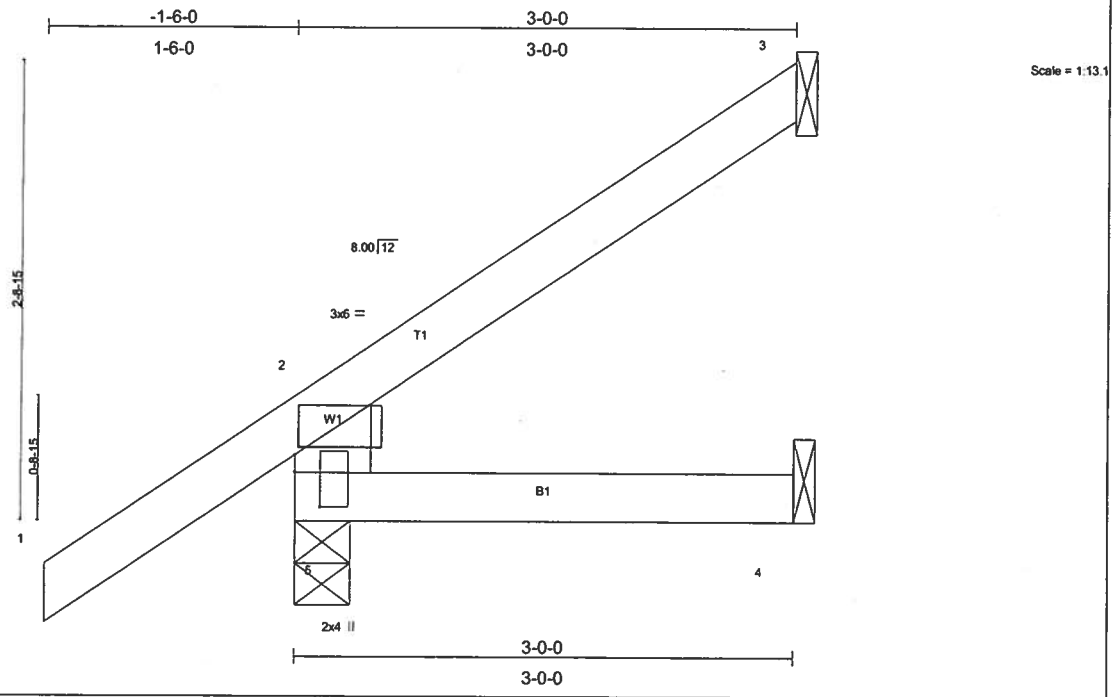


Plate Offsets (X,Y): [2:0-0-5,0-0-9], [5:0-2-8,0-1-14]

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	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.00	4-5	>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: 14 lb	

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

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

REACTIONS (lb/size) 5=237/0-4-0, 3=54/Mechanical, 4=30/Mechanical
Max Horz 5=171(load case 5)
Max Uplift5=-124(load case 5), 3=-61(load case 5), 4=-2(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-186/160, 1-2=0/52, 2-3=-51/22
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 124 lb uplift at joint 5, 61 lb uplift at joint 3 and 2 lb uplift at joint 4.

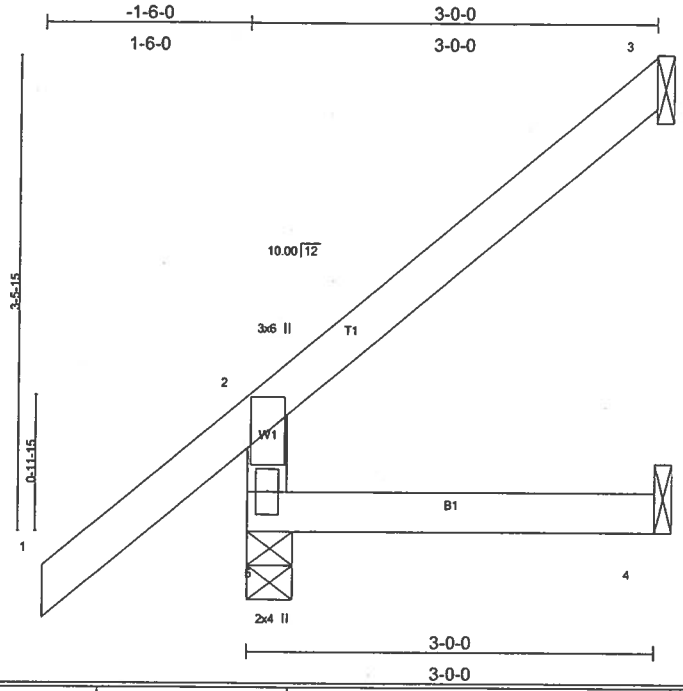
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061442

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ3A	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:32 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	0.01	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 14 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 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=232/0-4-0, 3=55/Mechanical, 4=36/Mechanical
Max Horz 5=214(load case 5)
Max Uplift5=-84(load case 5), 3=-83(load case 5), 4=-14(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-184/133, 1-2=0/57, 2-3=-75/26
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 84 lb uplift at joint 5, 83 lb uplift at joint 3 and 14 lb uplift at joint 4.

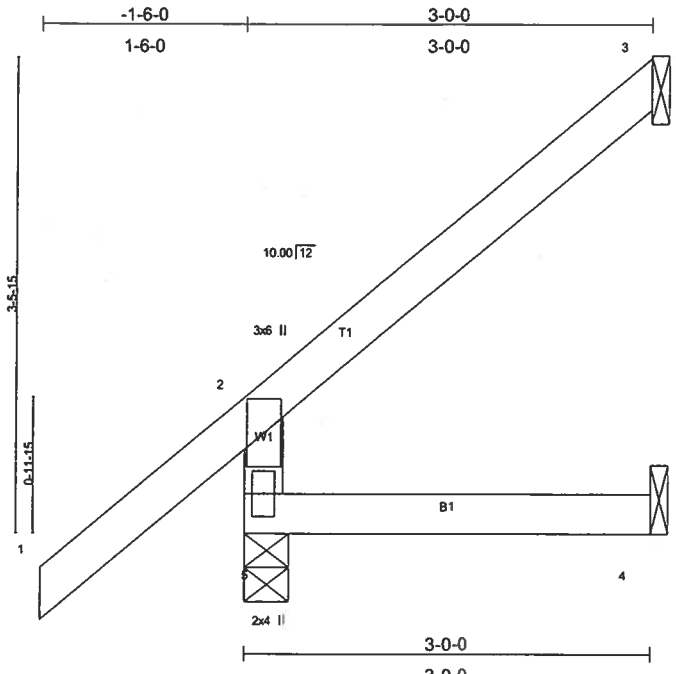
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061443

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ3B	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:33 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	0.01	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 14 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 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=232/0-4-0, 3=55/Mechanical, 4=36/Mechanical
Max Horz 5=214(load case 5)
Max Uplift5=-84(load case 5), 3=-83(load case 5), 4=-14(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-184/133, 1-2=0/57, 2-3=-75/26
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 84 lb uplift at joint 5, 83 lb uplift at joint 3 and 14 lb uplift at joint 4.

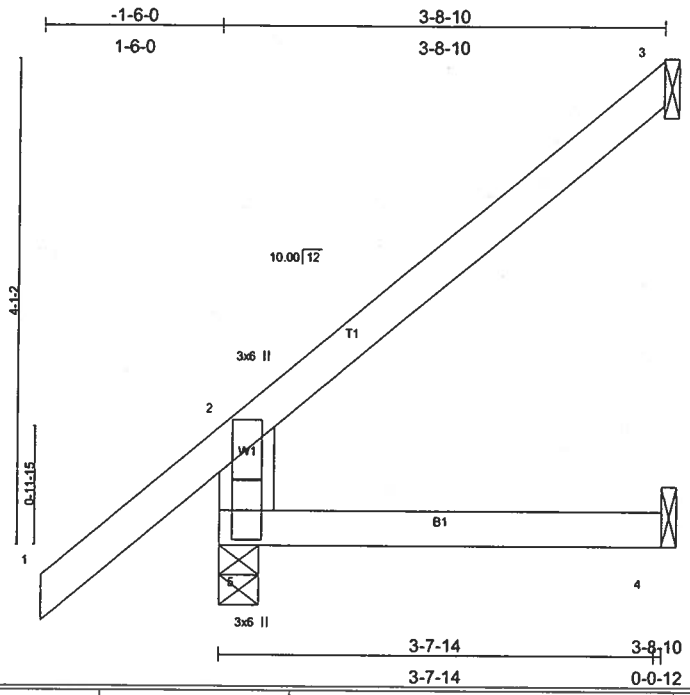
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061444

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ3C	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:33 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	0.01	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.02	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
WEBS 2 X 6 SYP No.1D

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

REACTIONS (lb/size) 5=261/0-4-0, 3=74/Mechanical, 4=46/Mechanical
Max Horz 5=245(load case 5)
Max Uplift5=-82(load case 5), 3=-107(load case 5), 4=-16(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-204/139, 1-2=0/60, 2-3=-95/36
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 82 lb uplift at joint 5, 107 lb uplift at joint 3 and 16 lb uplift at joint 4.

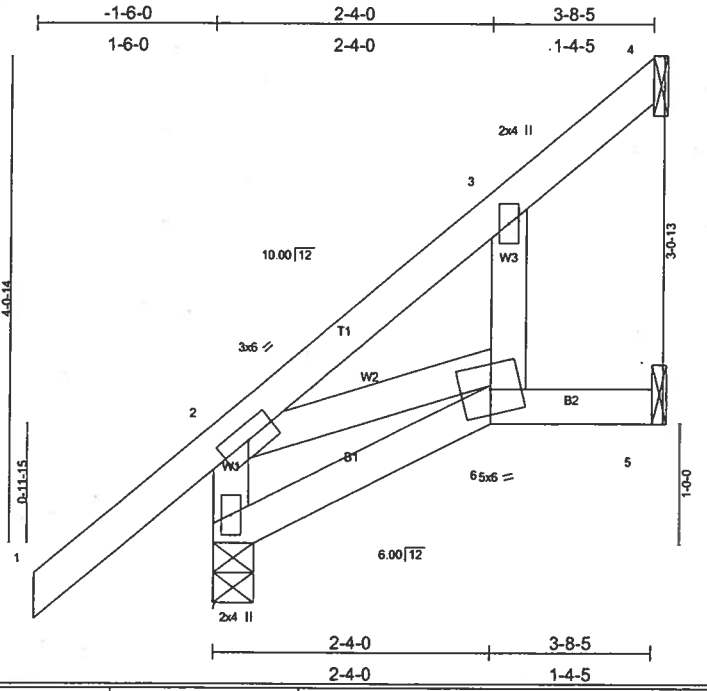
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061445

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ3E	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:34 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.05	6	>803	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	0.05	6	>893	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.03	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=256/0-4-0, 4=106/Mechanical, 5=19/Mechanical
Max Horz 7=269(load case 5)
Max Uplift7=-113(load case 5), 4=-164(load case 5), 5=-15(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-223/284, 1-2=0/57, 2-3=-90/31, 3-4=-163/64
BOT CHORD 6-7=-351/12, 5-6=0/0
WEBS 2-6=-1/249, 3-6=-249/53

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; 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) Bearing at joint(s) 7 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 113 lb uplift at joint 7, 164 lb uplift at joint 4 and 15 lb uplift at joint 5.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061446

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ4	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:35 2006 Page 1

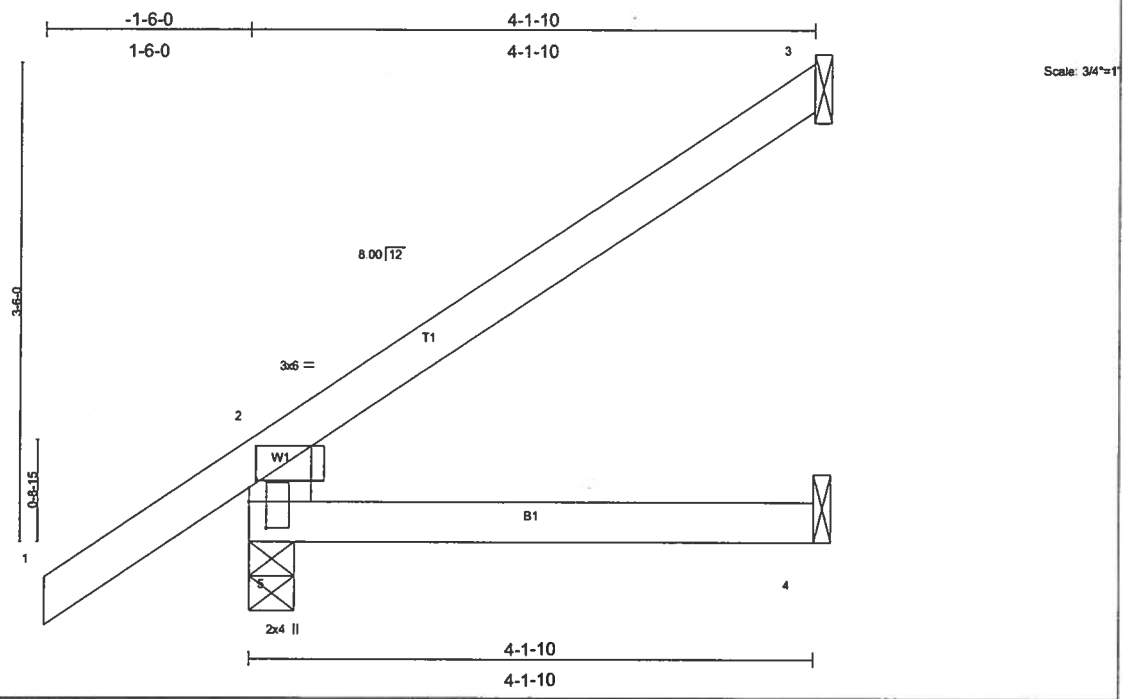


Plate Offsets (X,Y): [2:0-0-10,0-0-11], [5:0-2-5,0-1-9]

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)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.02	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 17 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=276/0-4-0, 3=86/Mechanical, 4=54/Mechanical
Max Horz 5=206(load case 5)
Max Uplift5=-122(load case 5), 3=-94(load case 5), 4=-3(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-214/171, 1-2=0/52, 2-3=-76/36
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 122 lb uplift at joint 5, 94 lb uplift at joint 3 and 3 lb uplift at joint 4.

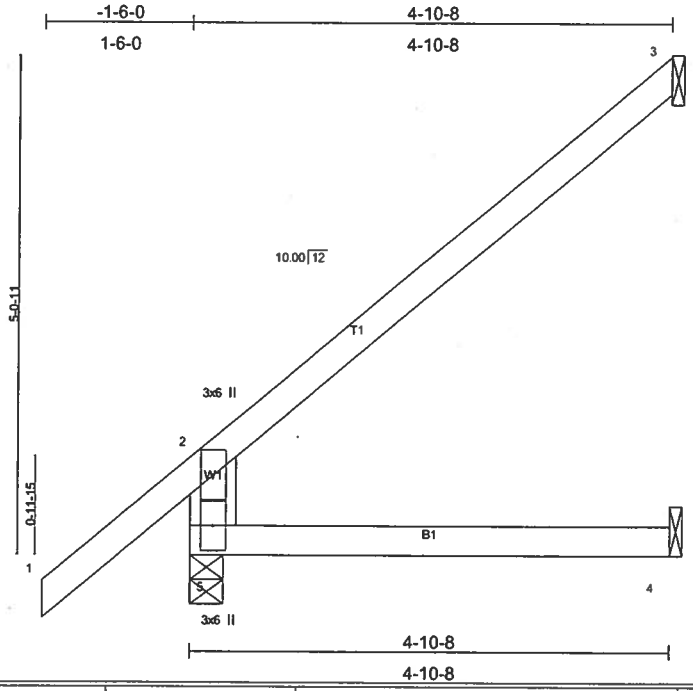
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061447

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ4A	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:35 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.05	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	0.04	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.05	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 22 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=303/0-4-0, 3=106/Mechanical, 4=69/Mechanical
Max Horz 5=289(load case 5)
Max Uplift5=-78(load case 5), 3=-144(load case 5), 4=-21(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-235/146, 1-2=0/60, 2-3=-128/52
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 78 lb uplift at joint 5, 144 lb uplift at joint 3 and 21 lb uplift at joint 4.

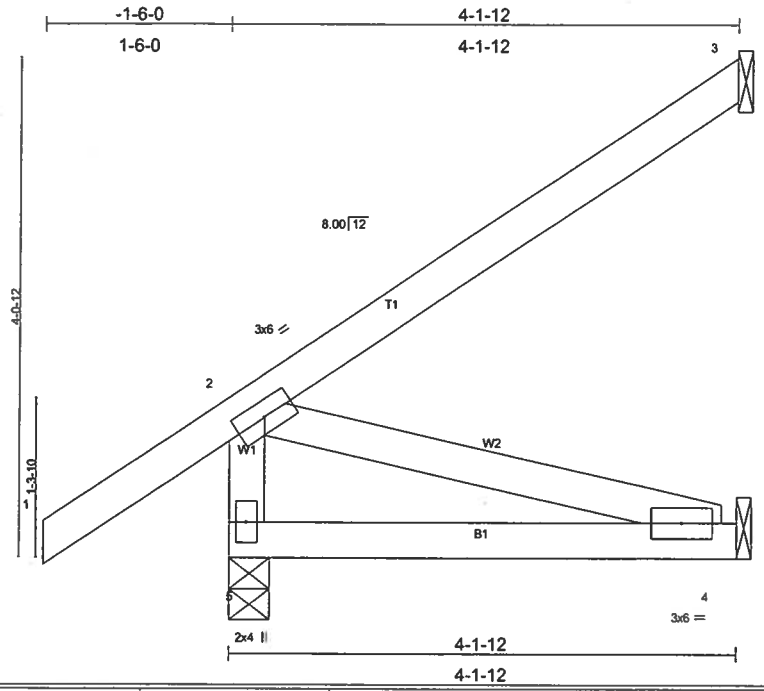
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061448

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ4C	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:36 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	0.04	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	0.03	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 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 4-1-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=272/0-4-0, 3=88/Mechanical, 4=58/Mechanical
Max Horz 5=217(load case 5)
Max Uplift5=-136(load case 5), 3=-85(load case 5), 4=-94(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-214/114, 1-2=0/49, 2-3=-71/37
BOT CHORD 4-5=-240/3
WEBS 2-4=-3/249

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; 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 136 lb uplift at joint 5, 85 lb uplift at joint 3 and 94 lb uplift at joint 4.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061449

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ5	JACK	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:36 2006 Page 1

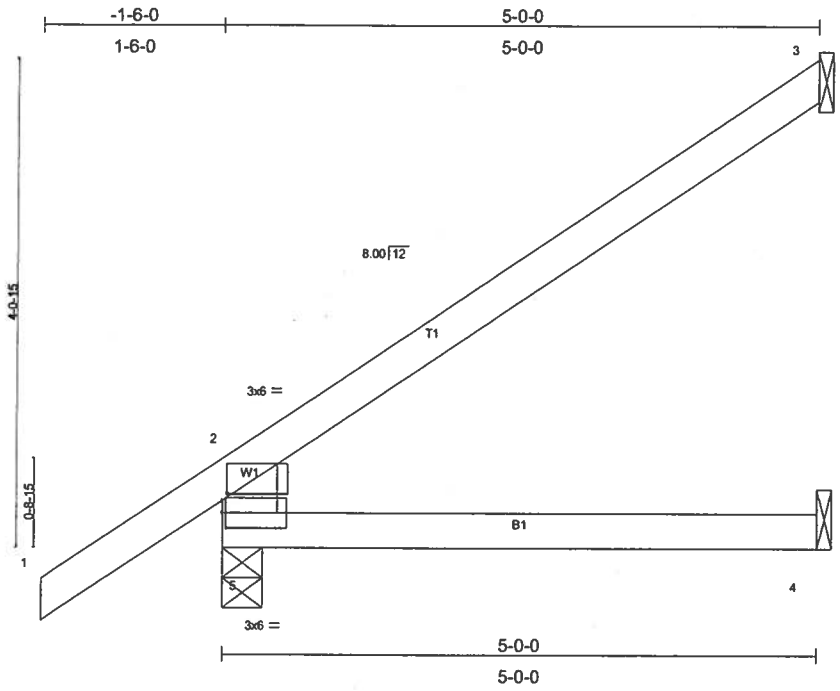


Plate Offsets (X,Y): [2:0-0-8,0-0-11], [5:0-0-7,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	0.03	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.04	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.02	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

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

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

REACTIONS (lb/size) 5=308/0-4-0, 3=110/Mechanical, 4=71/Mechanical
Max Horz 5=233(load case 5)
Max Uplift5=-123(load case 5), 3=-117(load case 5), 4=-6(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-238/182, 1-2=0/52, 2-3=-95/47
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 123 lb uplift at joint 5, 117 lb uplift at joint 3 and 6 lb uplift at joint 4.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061450

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ5A	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:37 2006 Page 1

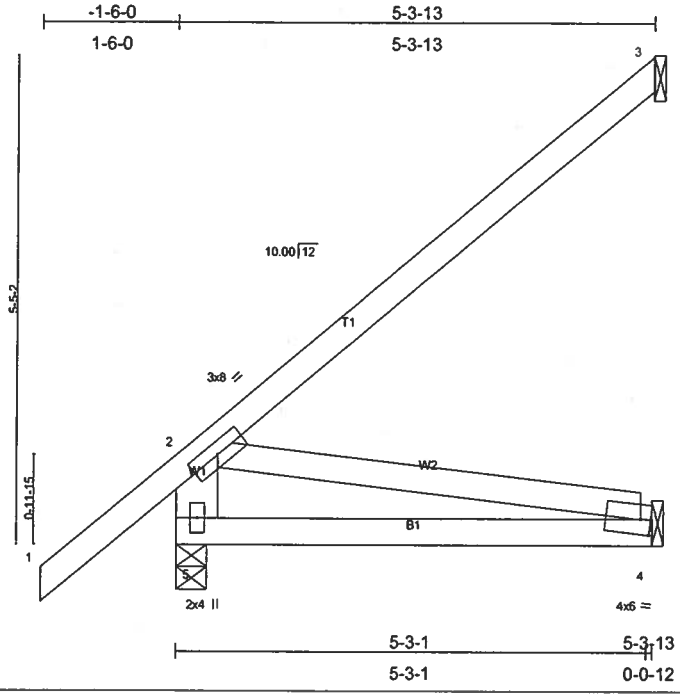


Plate Offsets (X,Y): [4:0-1-5,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.18	Vert(TL)	-0.06	4-5	>990	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.01	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 30 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 6 SYP No.1D *Except*
W2 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=322/0-4-0, 3=120/Mechanical, 4=76/Mechanical
Max Horz 5=306(load case 5)
Max Uplift5=-77(load case 5), 3=-145(load case 5), 4=-34(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-245/109, 1-2=0/60, 2-3=-130/59
BOT CHORD 4-5=-339/0
WEBS 2-4=-0/343

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 77 lb uplift at joint 5, 145 lb uplift at joint 3 and 34 lb uplift at joint 4.

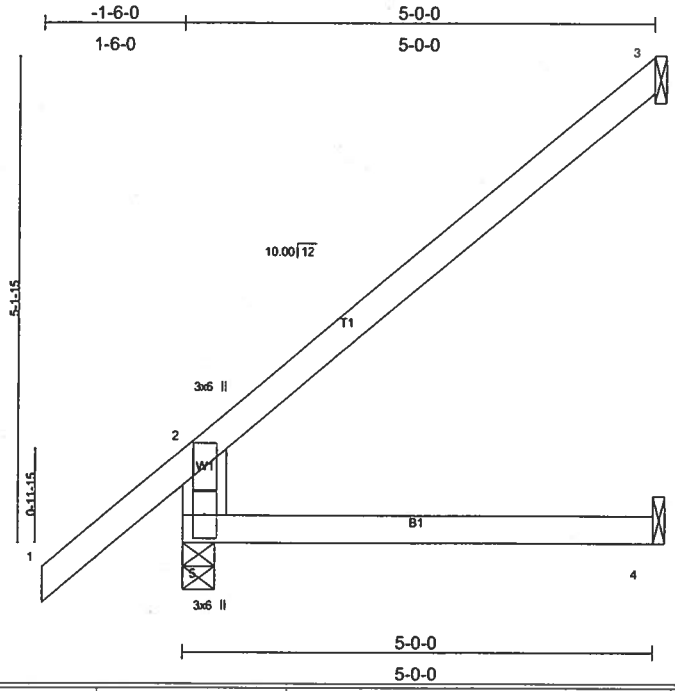
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061451

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ5C	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:38 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.05	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.05	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.05	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 22 lb	

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

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

REACTIONS (lb/size) 5=308/0-4-0, 3=109/Mechanical, 4=71/Mechanical
Max Horz 5=294(load case 5)
Max Uplift5=-77(load case 5), 3=-148(load case 5), 4=-21(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-238/147, 1-2=0/60, 2-3=-131/54
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 77 lb uplift at joint 5, 148 lb uplift at joint 3 and 21 lb uplift at joint 4.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061452

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ5F	SPECIAL	1	1	Job Reference (optional)

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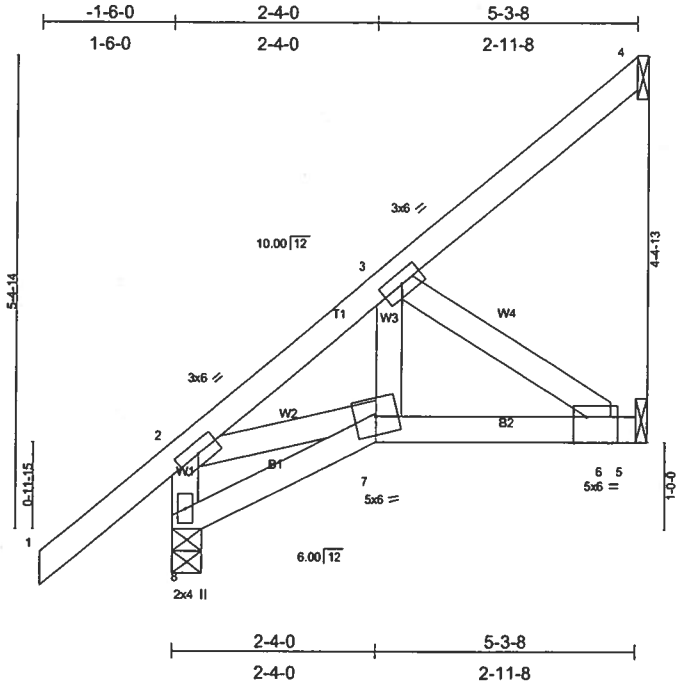


Plate Offsets (X,Y): [6:0-1-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.02	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	0.02	6-7	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 33 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 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS (lb/size) 8=317/0-4-0, 4=66/Mechanical, 5=133/Mechanical
Max Horz 8=331(load case 5)
Max Uplift8=-130(load case 5), 4=-88(load case 5), 5=-163(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-8=-284/372, 1-2=0/57, 2-3=-251/291, 3-4=-79/33
BOT CHORD 7-8=-426/12, 6-7=-323/143, 5-6=0/0
WEBS 2-7=-19/152, 3-7=-374/100, 3-6=-173/391

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; 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) Bearing at joint(s) 8 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 130 lb uplift at joint 8, 88 lb uplift at joint 4 and 163 lb uplift at joint 5.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061453

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	CJ6	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:39 2006 Page 1

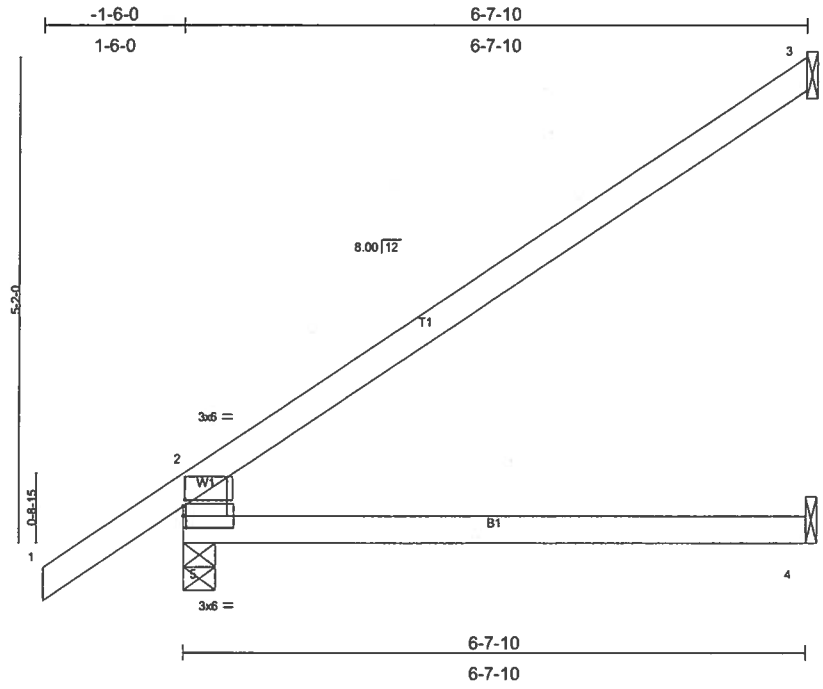


Plate Offsets (X,Y): [2:0-0-3,0-0-12], [5:0-0-5,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	0.11	4-5	>714	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.17	4-5	>455	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.05	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

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

REACTIONS (lb/size) 5=373/0-4-0, 3=153/Mechanical, 4=101/Mechanical
Max Horz 5=283(load case 5)
Max Uplift5=-128(load case 5), 3=-160(load case 5), 4=-11(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-283/199, 1-2=0/52, 2-3=-126/66
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 128 lb uplift at joint 5, 160 lb uplift at joint 3 and 11 lb uplift at joint 4.

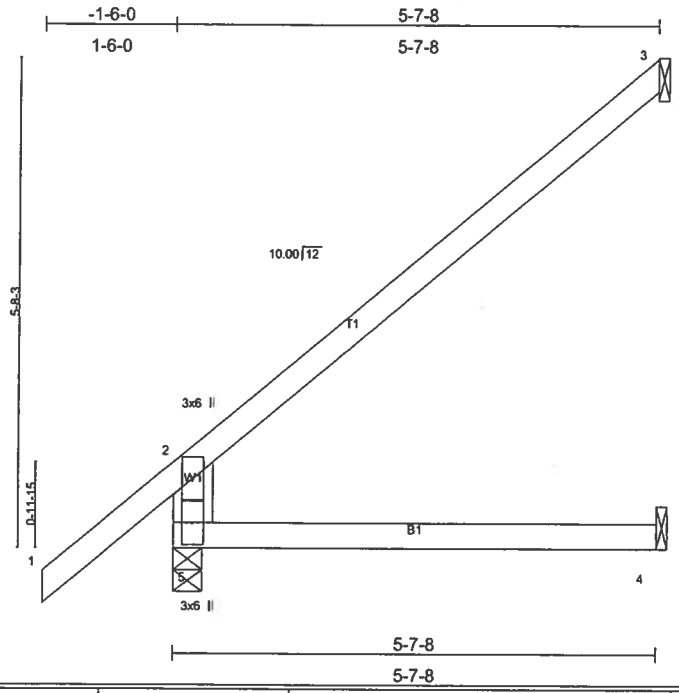
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061454

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	EJ6	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:39 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.09	4-5	>751	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.08	4-5	>799	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.07	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 24 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=333/0-4-0, 3=126/Mechanical, 4=83/Mechanical
Max Horz 5=318(load case 5)
Max Uplift5=-76(load case 5), 3=-168(load case 5), 4=-23(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-255/151, 1-2=0/60, 2-3=-148/62
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 76 lb uplift at joint 5, 168 lb uplift at joint 3 and 23 lb uplift at joint 4.

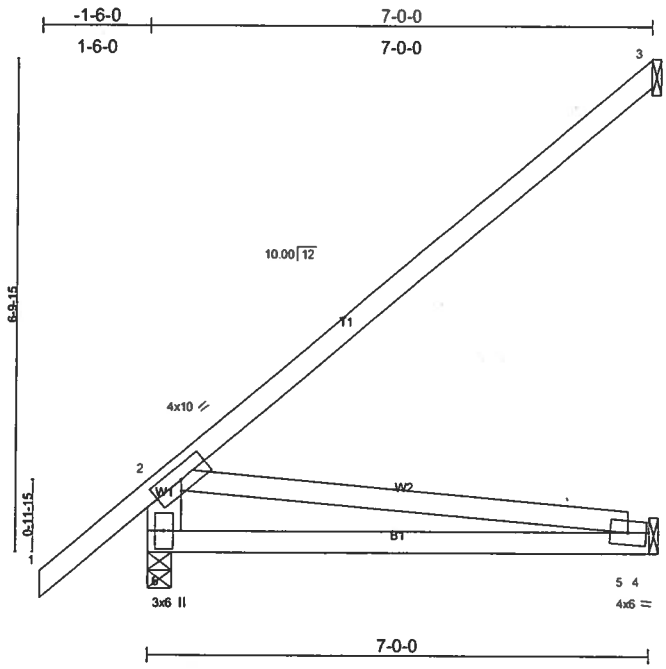
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061455

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	EJ7	MONO TRUSS	23	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:40 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.35	Vert(TL)	-0.10	5-6	>821	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(TL)	-0.02	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 38 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 6 SYP No.1D *Except*
W2 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-15 oc bracing.

REACTIONS (lb/size) 3=139/Mechanical, 6=387/0-4-0, 4=131/Mechanical
Max Horz 6=371(load case 5)
Max Uplift3=-180(load case 5), 6=-73(load case 5), 4=-57(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=-160/66, 2-6=-263/113
BOT CHORD 5-6=-601/411, 4-5=0/0
WEBS 2-5=-414/606

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 180 lb uplift at joint 3, 73 lb uplift at joint 6 and 57 lb uplift at joint 4.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061456

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	EJ7A	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:41 2006 Page 1

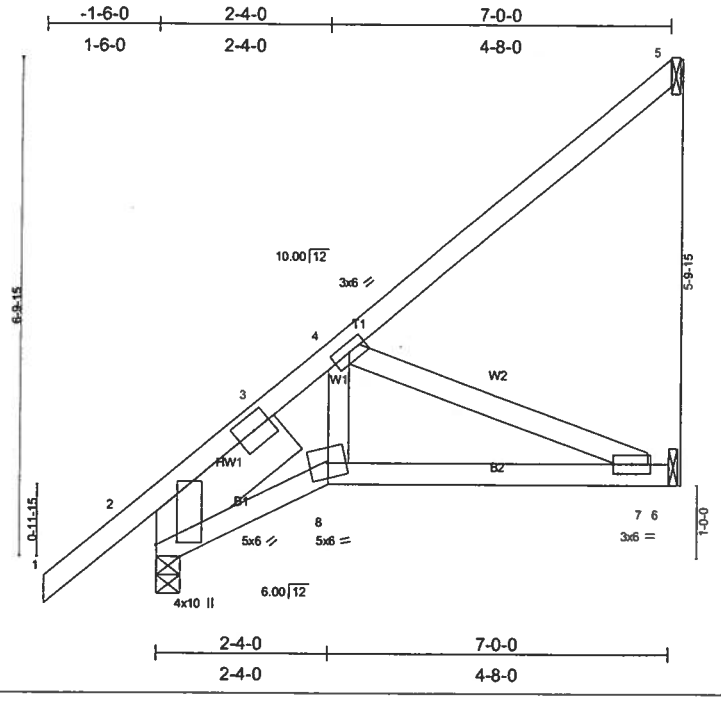


Plate Offsets (X,Y): [2:0-0-8,0-3-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.08	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	0.07	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(TL)	-0.02	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 44 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
SLIDER Left 2 X 8 SYP No.1D 2-4-7

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-0-12 oc bracing.

REACTIONS (lb/size) 5=106/Mechanical, 2=384/0-4-0, 6=170/Mechanical
Max Horz 2=361(load case 5)
Max Uplift5=-132(load case 5), 2=-151(load case 5), 6=-195(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-502/586, 3-4=-449/596, 4-5=-118/52
BOT CHORD 2-8=-769/353, 7-8=-589/282, 6-7=0/0
WEBS 4-8=-592/265, 4-7=-305/637

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; 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) 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 132 lb uplift at joint 5, 151 lb uplift at joint 2 and 195 lb uplift at joint 6.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061457

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	EJ7B	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:41 2006 Page 1

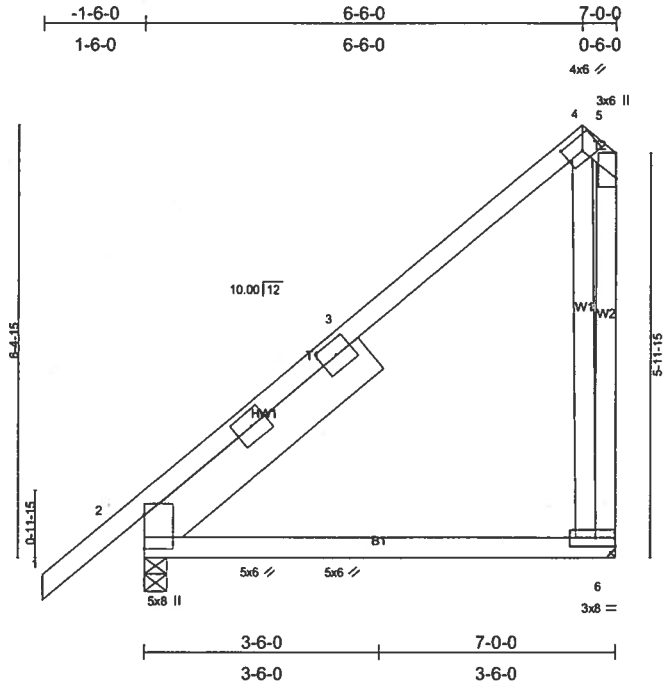


Plate Offsets (X,Y): [2:0-5-14,0-0-1], [4:0-3-0,0-2-5], [5:0-4-9,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.06	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.09	2-6	>885	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 58 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
SLIDER Left 2 X 8 SYP No.1D 4-4-2

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

REACTIONS (lb/size) 2=378/0-4-0, 6=279/Mechanical
Max Horz 2=309(load case 5)
Max Uplift2=-88(load case 5), 6=-209(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-159/8, 3-4=-95/55, 4-5=-246/144, 5-6=-410/250
BOT CHORD 2-6=-58/55
WEBS 4-6=-414/632

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2 and 209 lb uplift at joint 6.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061458

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	EJ7C	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:42 2006 Page 1

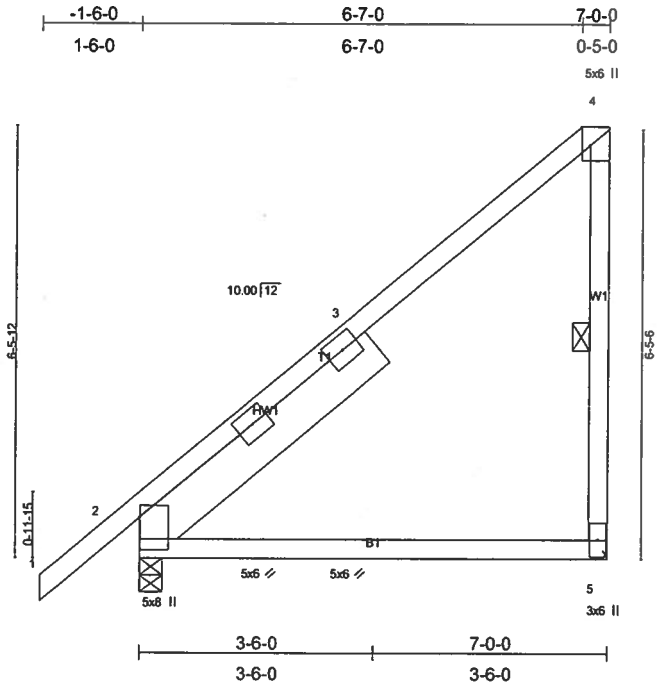


Plate Offsets (X,Y): [2:0-5-14,0-0-1], [4:0-3-5,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.63	Vert(LL)	0.06	2-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.10	2-5	>835	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	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
SLIDER Left 2 X 8 SYP No.1D 4-6-14

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS (lb/size) 5=279/Mechanical, 2=378/0-4-0
Max Horz 2=332(load case 5)
Max Uplift5=-234(load case 5), 2=-67(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-155/0, 3-4=-134/69, 4-5=-162/233
BOT CHORD 2-5=-45/45

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 234 lb uplift at joint 5 and 67 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061459

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	EJ7D	MONO TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:42 2006 Page 1

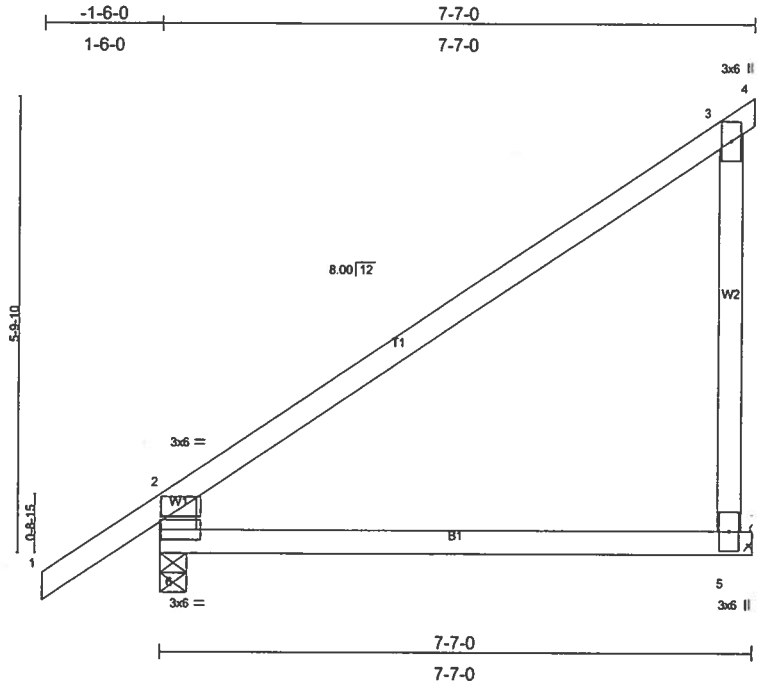


Plate Offsets (X,Y): [2:0-0-2,0-0-13], [6:0-0-2,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.74	Vert(LL)	-0.07	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.13	5-6	>673	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 36 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 6 SYP No.1D

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

REACTIONS (lb/size) 5=289/Mechanical, 6=401/0-4-0
Max Horz 6=313(load case 5)
Max Uplift5=-206(load case 5), 6=-124(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/52, 2-3=-181/30, 3-4=-2/0, 3-5=-159/188, 2-6=-320/210
BOT CHORD 5-6=-54/67

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 206 lb uplift at joint 5 and 124 lb uplift at joint 6.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061460

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	EJ7E	MONO HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:43 2006 Page 1

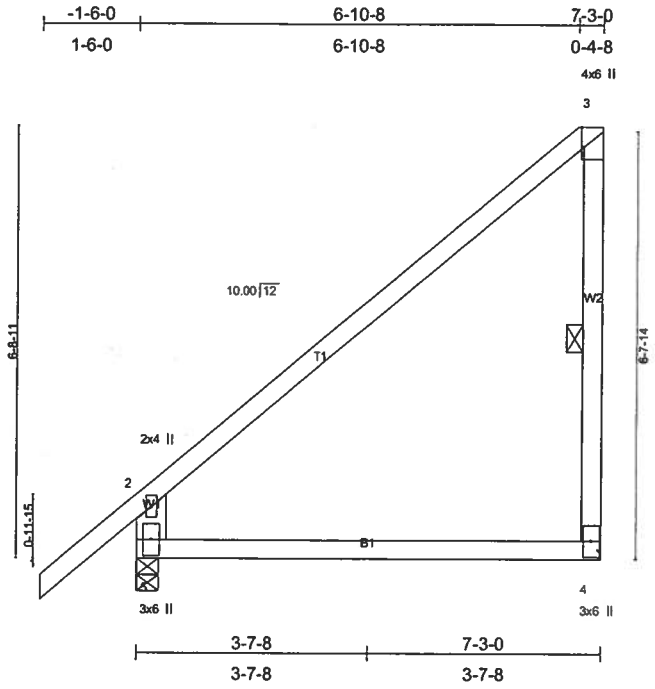


Plate Offsets (X,Y): [3:0-3-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	0.10	4-5	>825	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.44	Vert(TL)	-0.12	4-5	>697	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 39 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-4

REACTIONS (lb/size) 4=277/Mechanical, 5=394/0-4-0
Max Horz 5=377(load case 5)
Max Uplift4=-243(load case 5), 5=-73(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/60, 2-3=-178/60, 3-4=-151/221, 2-5=-313/169
BOT CHORD 4-5=-55/48

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 243 lb uplift at joint 4 and 73 lb uplift at joint 5.

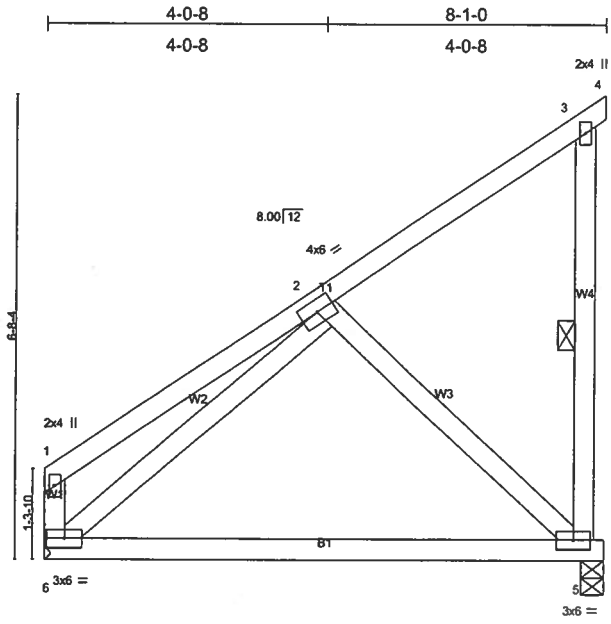
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061461

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	EJ8	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:44 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	-0.06	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.23	Vert(TL)	-0.11	5-6	>832	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 52 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS (lb/size) 5=325/0-4-0, 6=321/Mechanical
Max Horz 6=243(load case 5)
Max Uplift5=-248(load case 5), 6=-3(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-287/81, 2-3=-88/28, 3-4=-2/0, 3-5=-89/108, 1-6=-228/106
BOT CHORD 5-6=-183/162
WEBS 2-5=-191/246, 2-6=-100/43

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 5 and 3 lb uplift at joint 6.

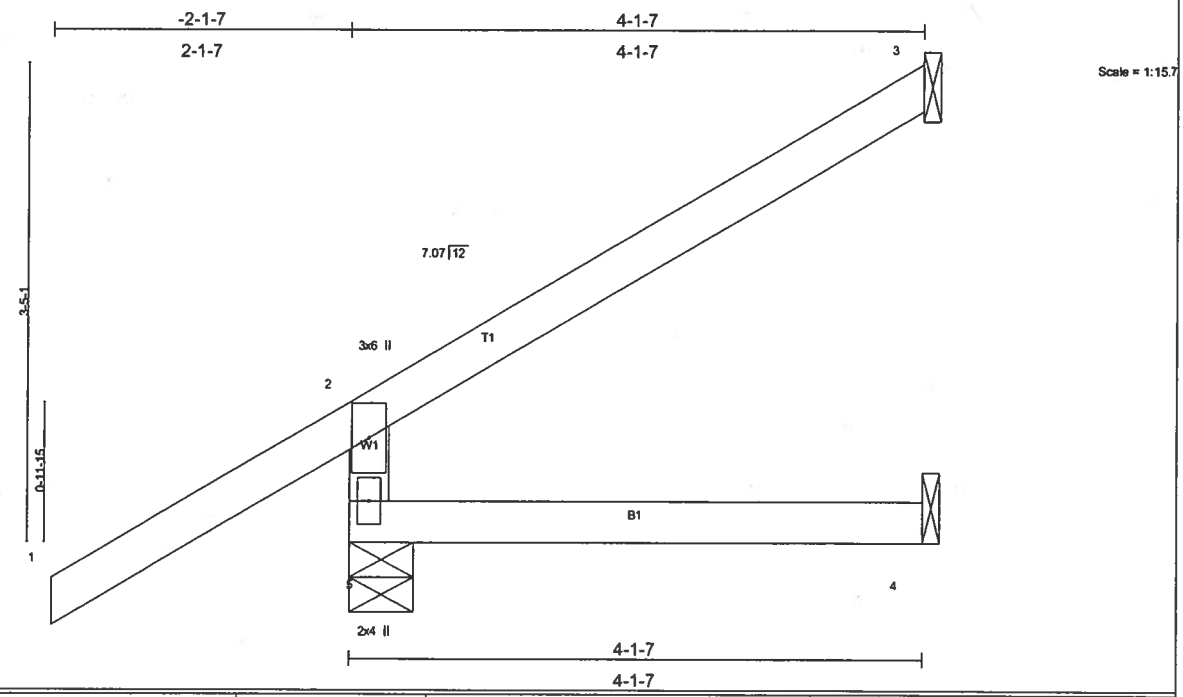
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061462

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	HJ4	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:45 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.02	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.02	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
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=219/0-5-11, 3=52/Mechanical, 4=30/Mechanical
Max Horz 5=144(load case 4)
Max Uplift5=-136(load case 4), 3=-41(load case 4)
Max Grav 5=219(load case 1), 3=71(load case 2), 4=30(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-186/136, 1-2=0/62, 2-3=-32/34
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left 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 136 lb uplift at joint 5 and 41 lb uplift at joint 3.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

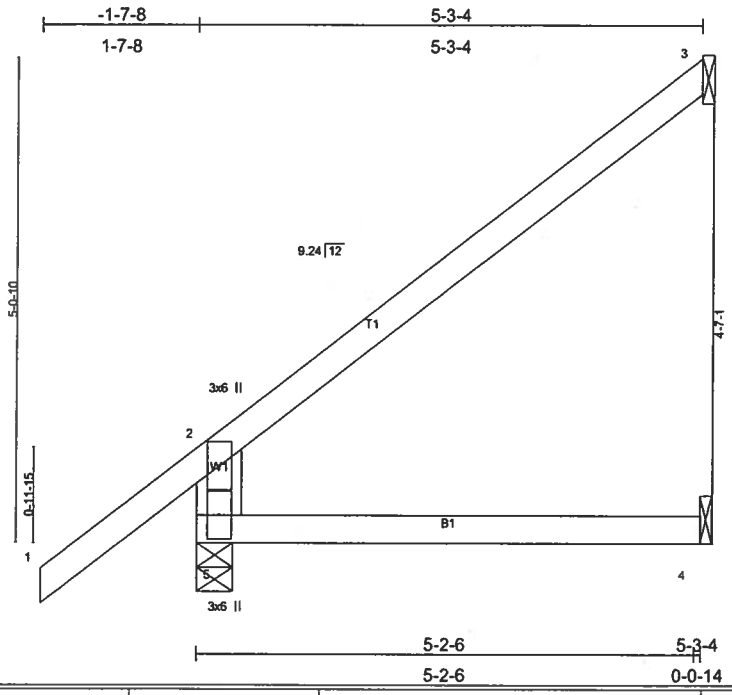
LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-2(F=26, B=26)-to-3=-57(F=-2, B=-2), 5=0(F=15, B=15)-to-4=-32(F=-1, B=-1)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061463

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	HJ6	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:46 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.04	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.05	4-5	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.04	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=249/0-4-6, 3=144/Mechanical, 4=87/Mechanical
Max Horz 5=266(load case 4)
Max Uplift5=-28(load case 4), 3=-205(load case 4), 4=-7(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-204/61, 1-2=0/61, 2-3=-148/60
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left 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 28 lb uplift at joint 5, 205 lb uplift at joint 3 and 7 lb uplift at joint 4.
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=-4(F=25, B=25)-to-3=-95(F=-21, B=-21), 5=-0(F=15, B=15)-to-4=-53(F=-12, B=-12)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061464

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	HJ7	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:46 2006 Page 1

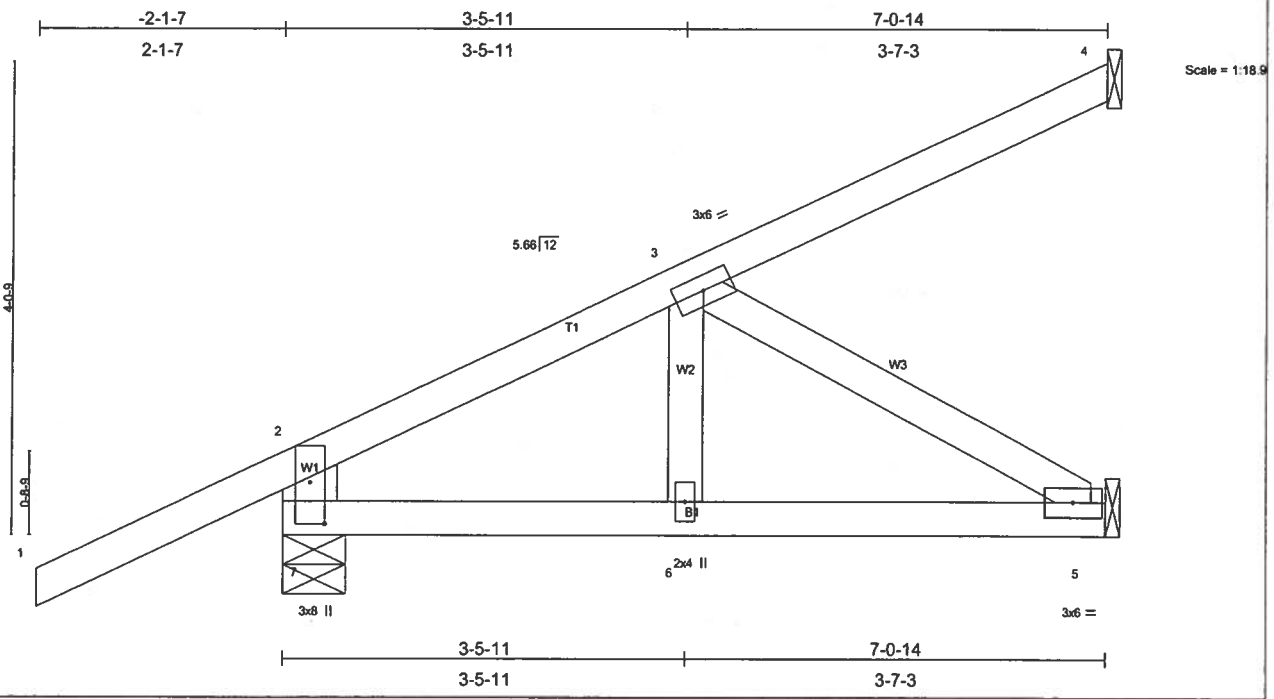


Plate Offsets (X,Y): [7:0-4-4,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.03	5-6	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(TL)	-0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 35 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 6 SYP No.1D

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

REACTIONS (lb/size) 7=323/0-6-7, 4=132/Mechanical, 5=185/Mechanical
Max Horz 7=215(load case 4)
Max Uplift7=-156(load case 4), 4=-123(load case 4), 5=-44(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-267/127, 1-2=0/54, 2-3=-222/0, 3-4=-69/42
BOT CHORD 6-7=-84/180, 5-6=-84/180
WEBS 3-6=0/59, 3-5=-208/98

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left 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 156 lb uplift at joint 7, 123 lb uplift at joint 4 and 44 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), 7=-0(F=15, B=15)-to-5=-53(F=-12, B=-12)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061465

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	HJ8	MONO TRUSS	1	1	Job Reference (optional)

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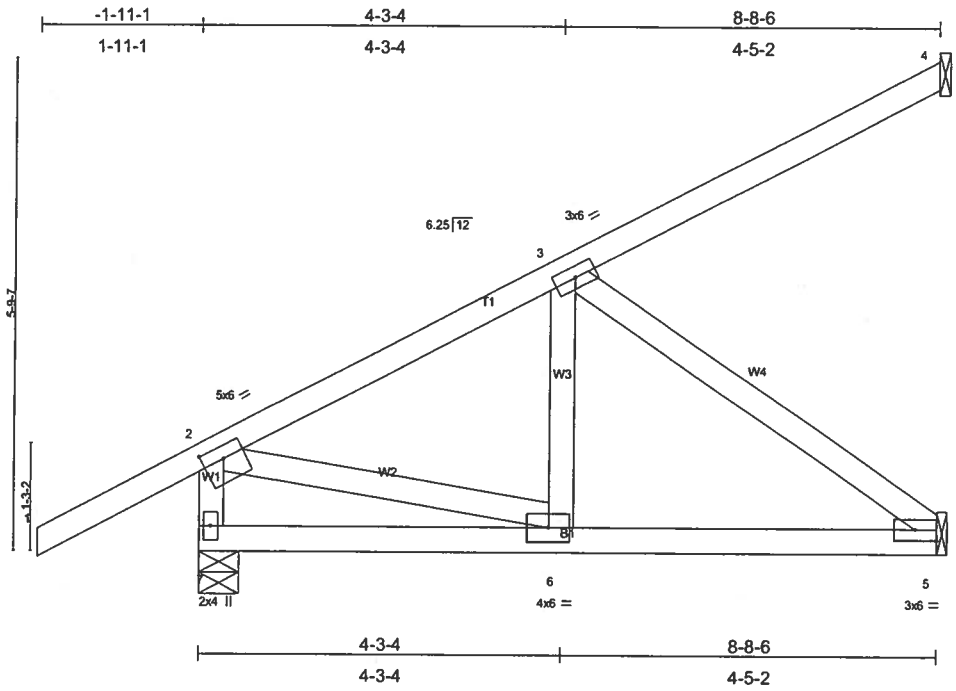

Plate Offsets (X,Y): [2:0-3-0,0-1-12], [5:Edge,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.05	5-6	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(TL)	-0.01	4	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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 7=428/0-5-12, 4=209/Mechanical, 5=369/Mechanical
Max Horz 7=364(load case 4)
Max Uplift7=-211(load case 4), 4=-228(load case 4), 5=-259(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-423/171, 1-2=0/52, 2-3=-404/77, 3-4=-137/70
BOT CHORD 6-7=-215/0, 5-6=-333/350
WEBS 2-6=-122/451, 3-6=-68/86, 3-5=-431/409

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; 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 211 lb uplift at joint 7, 228 lb uplift at joint 4 and 259 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=-2(F=26, B=26)-to-4=-134(F=-40, B=-40), 7=0(F=15, B=15)-to-5=-74(F=-22, B=-22)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061466

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	HJ8A	MONO TRUSS	1	1	Job Reference (optional)

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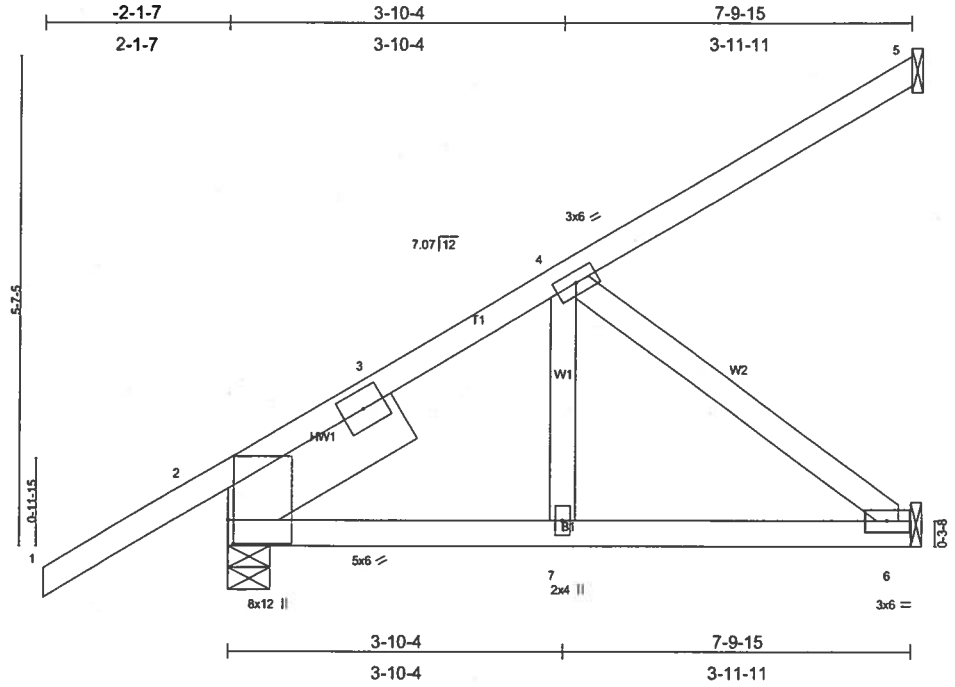

Plate Offsets (X,Y): [2:0-3-5,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.18	Vert(TL)	-0.03	6-7	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(TL)	-0.01	5	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
SLIDER Left 2 X 8 SYP No.1D 2-4-1

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) 5=159/Mechanical, 2=344/0-5-11, 6=257/Mechanical
Max Horz 2=244(load case 4)
Max Uplift5=-181(load case 4), 2=-85(load case 4), 6=-98(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-301/0, 3-4=-283/0, 4-5=-117/60
BOT CHORD 2-7=-143/221, 6-7=-143/221
WEBS 4-7=0/117, 4-6=-279/181

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left 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 181 lb uplift at joint 5, 85 lb uplift at joint 2 and 98 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: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-0(F=27, B=27)-to-5=-107(F=-27, B=-27), 2=0(F=15, B=15)-to-6=-60(F=-15, B=-15)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061467

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	HJ12	MONO TRUSS	1	1	Job Reference (optional)

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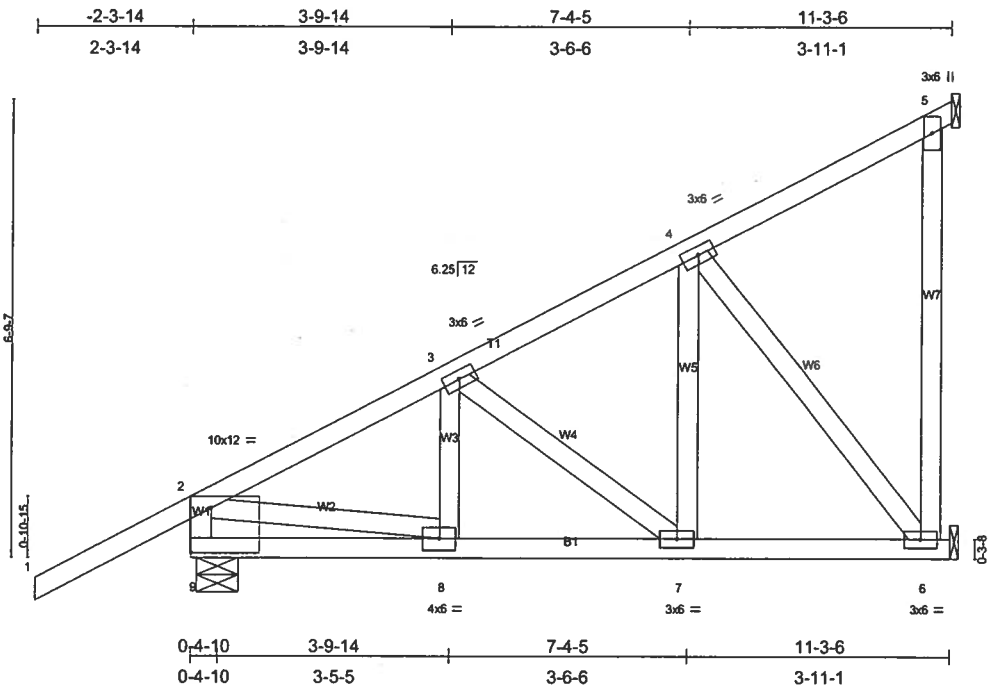

Plate Offsets (X,Y): [2:Edge,0-7-14]

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)	0.01	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	-0.02	7-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.32	Horz(TL)	-0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 78 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 9=531/0-7-5, 5=191/Mechanical, 6=549/Mechanical
Max Horz 9=443(load case 4)
Max Uplift9=-143(load case 4), 5=-208(load case 4), 6=-253(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-9=-512/152, 1-2=0/62, 2-3=-523/0, 3-4=-455/0, 4-5=-115/73, 5-6=0/0
BOT CHORD 8-9=-172/13, 7-8=-288/446, 6-7=-230/371
WEBS 2-8=-148/560, 3-8=-29/33, 3-7=-93/72, 4-7=0/249, 4-6=-558/344

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left 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 143 lb uplift at joint 9, 208 lb uplift at joint 5 and 253 lb uplift at joint 6.
4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-2(F=26, B=26)-to-5=-134(F=-40, B=-40), 9=0(F=15, B=15)-to-6=-74(F=-22, B=-22)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061468

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB01	PIGGYBACK 4x6 =	4	1	Job Reference (optional)

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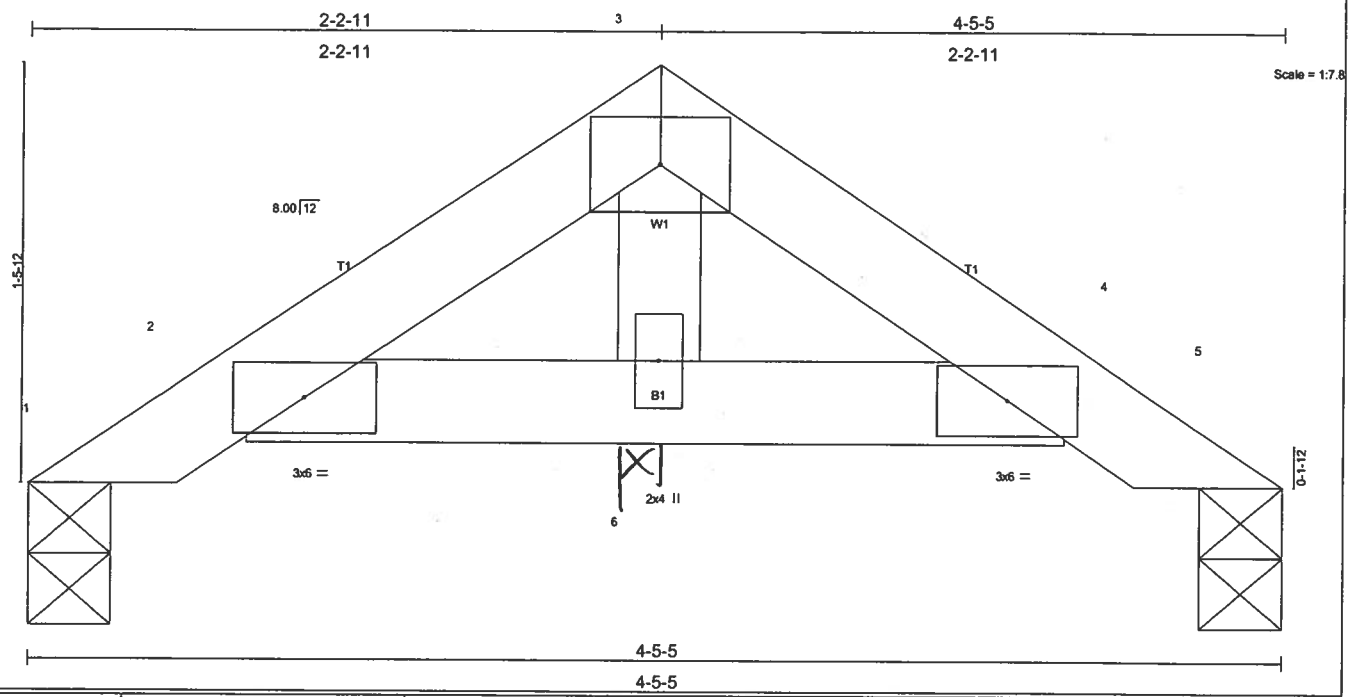

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

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

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

REACTIONS (lb/size) 1=163/0-3-8, 5=163/0-3-8
Max Horz 1=48(load case 4)
Max Uplift1=-55(load case 5), 5=-55(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-80/45, 2-3=-263/113, 3-4=-263/113, 4-5=-80/43
BOT CHORD 2-6=-56/219, 4-6=-56/219
WEBS 3-6=-36/136

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 1, 5 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 55 lb uplift at joint 1 and 55 lb uplift at joint 5.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061469

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB01A	HIP PIGGYBACK	1	1	Job Reference (optional)

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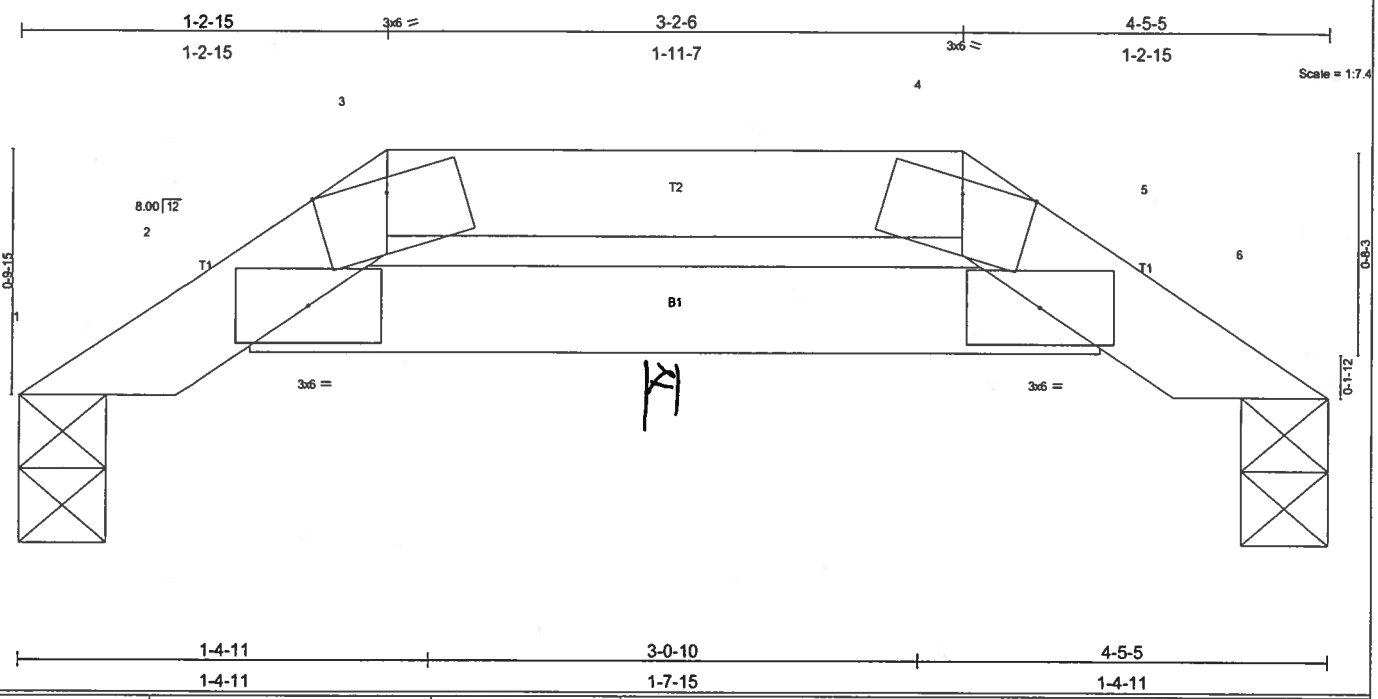

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	2-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.02	2-5	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(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 4-5-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=163/0-3-8, 6=163/0-3-8
Max Horz 1=26(load case 4)
Max Uplift1=-49(load case 4), 6=-49(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-80/54, 2-3=-296/206, 3-4=-321/216, 4-5=-296/206, 5-6=-80/54
BOT CHORD 2-5=-177/321

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 1, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1 and 49 lb uplift at joint 6.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061470

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB02	VALLEY	3	1	Job Reference (optional)

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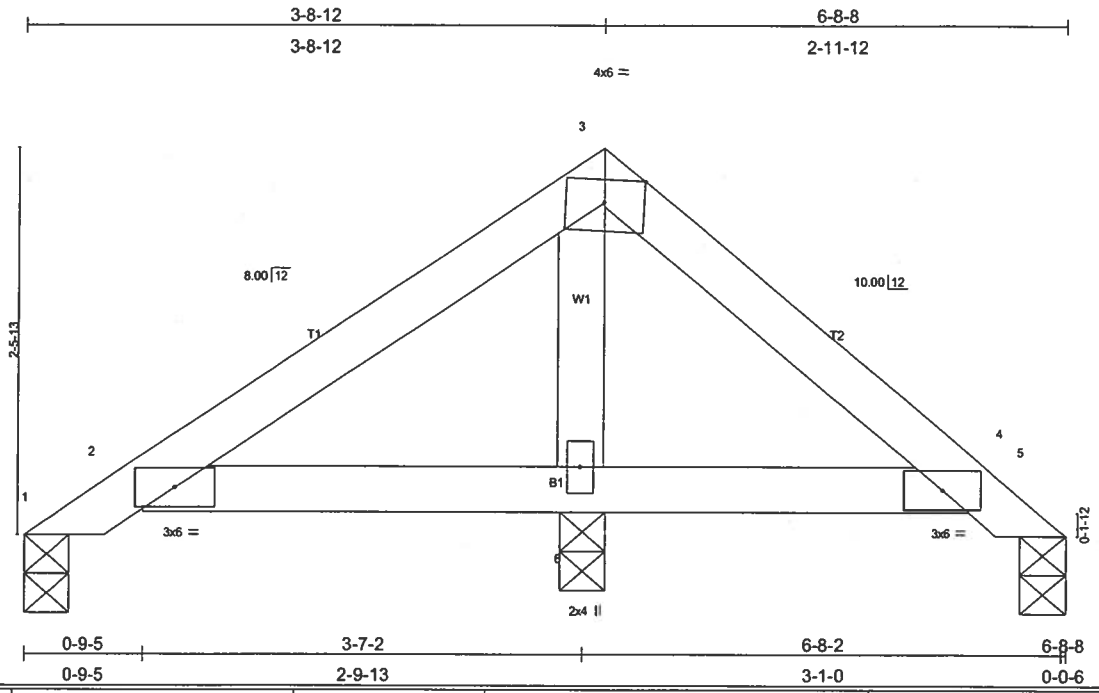


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.11	Vert(LL)	0.01	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=54/0-3-8, 6=440/0-3-8, 5=25/0-3-8
Max Horz 1=83(load case 4)
Max Uplift1=-20(load case 6), 6=-156(load case 5), 5=-36(load case 3)
Max Grav 1=66(load case 9), 6=440(load case 1), 5=54(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-76/80, 2-3=-66/179, 3-4=-49/160, 4-5=-30/26
BOT CHORD 2-6=-104/109, 4-6=-82/95
WEBS 3-6=-315/182

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 1, 5 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 20 lb uplift at joint 1, 156 lb uplift at joint 6 and 36 lb uplift at joint 5.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061471

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB03	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:50 2006 Page 1

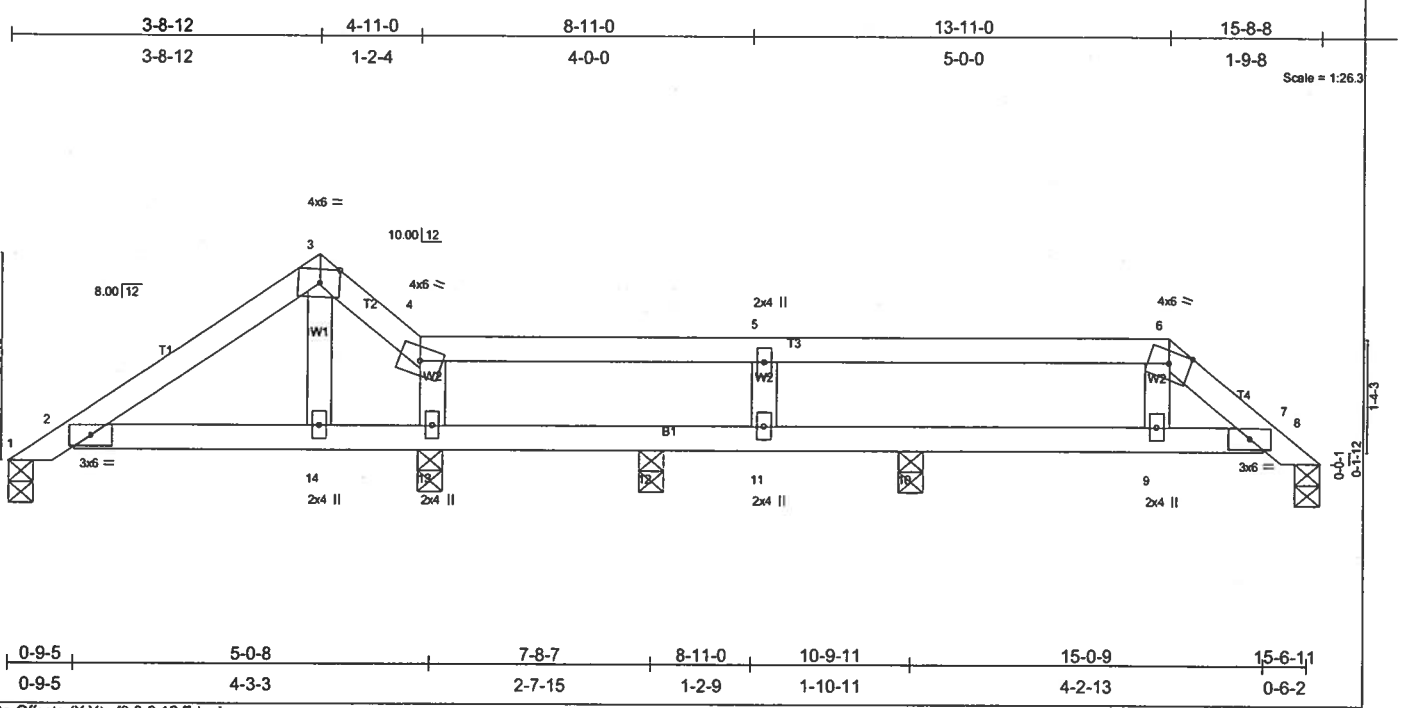


Plate Offsets (X,Y): [3:0-2-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	-0.03	9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.04	9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 53 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) 1=227/0-3-8, 13=268/0-3-8, 8=211/0-3-8, 12=254/0-3-8, 10=314/0-3-8
Max Horz 1=83(load case 4)
Max Uplift1=-75(load case 5), 13=-83(load case 5), 8=-75(load case 6), 12=-134(load case 4), 10=-129(load case 4)
Max Grav 1=227(load case 1), 13=268(load case 1), 8=211(load case 1), 12=267(load case 10), 10=326(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-113/68, 2-3=-275/116, 3-4=-290/147, 4-5=-174/74, 5-6=-175/74, 6-7=-196/46, 7-8=-119/52
BOT CHORD 2-14=-67/215, 13-14=-67/215, 12-13=-48/174, 11-12=-48/174, 10-11=-48/174, 9-10=-48/174, 7-9=-66/187
WEBS 3-14=-56/160, 4-13=-294/179, 5-11=-281/224, 6-9=-114/133

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 1, 8 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 75 lb uplift at joint 1, 83 lb uplift at joint 13, 75 lb uplift at joint 8, 134 lb uplift at joint 12 and 129 lb uplift at joint 10.

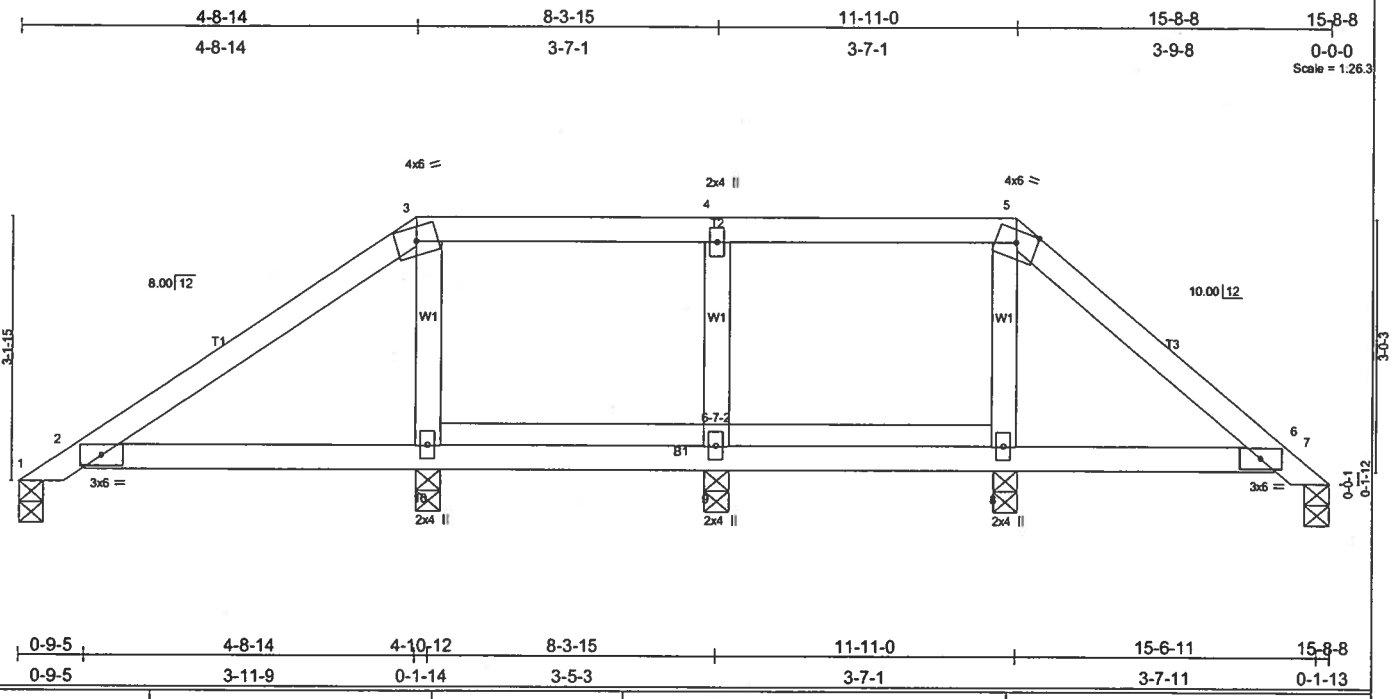
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061472

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB04	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:51 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	0.02	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.03	2-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 59 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=68/0-3-8, 10=483/0-3-8, 8=446/0-3-8, 9=263/0-3-8, 7=14/0-3-8
Max Horz 1=-107(load case 3)
Max Uplift1=-20(load case 6), 10=-190(load case 5), 8=-150(load case 6), 9=-165(load case 3), 7=-45(load case 3)
Max Grav 1=85(load case 9), 10=483(load case 1), 8=446(load case 1), 9=286(load case 10), 7=53(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-97/106, 2-3=-103/243, 3-4=-22/159, 4-5=-22/160, 5-6=-87/252, 6-7=-29/31
BOT CHORD 2-10=-141/130, 9-10=-159/141, 8-9=-159/141, 6-8=-142/131
WEBS 3-10=-332/204, 5-8=-321/194, 4-9=-198/184

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 1, 7 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 20 lb uplift at joint 1, 190 lb uplift at joint 10, 150 lb uplift at joint 8, 165 lb uplift at joint 9 and 45 lb uplift at joint 7.

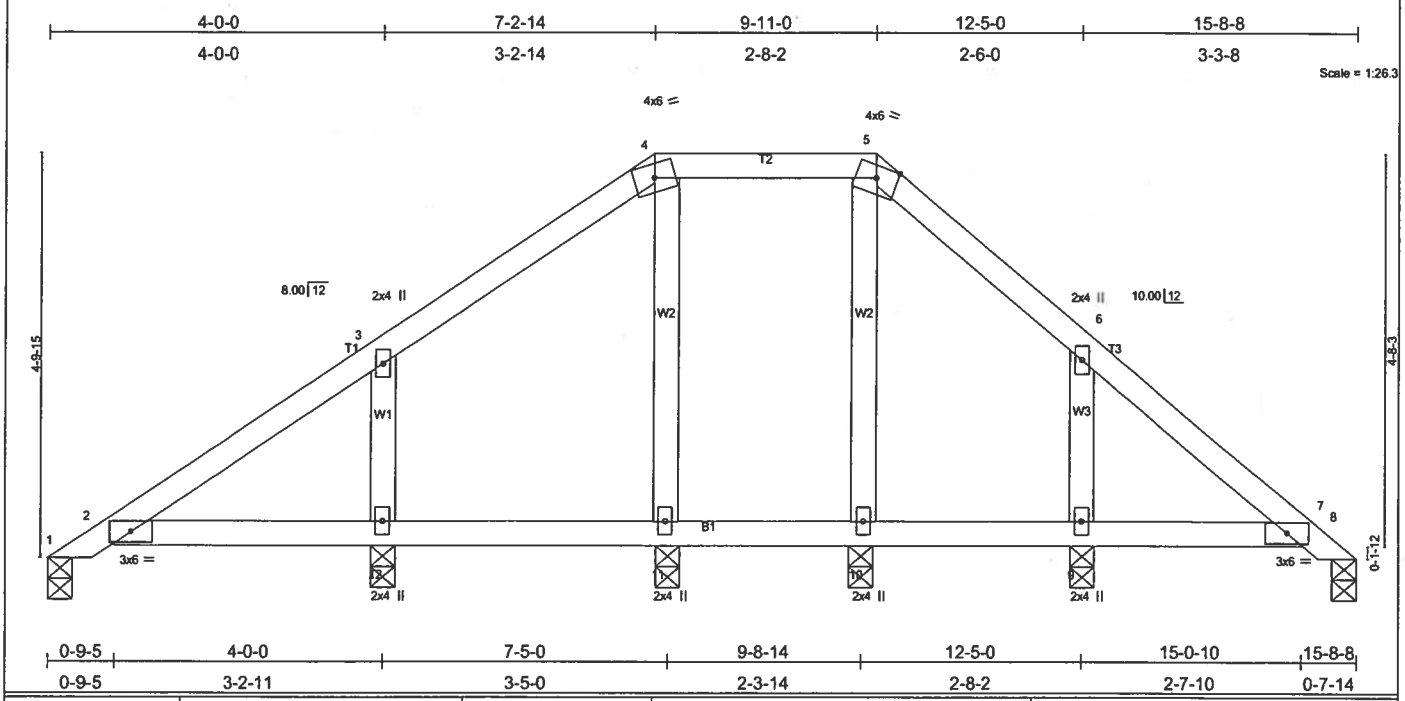
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061473

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB05	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:52 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	0.01	2-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 68 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=77/0-3-8, 8=46/0-3-8, 11=286/0-3-8, 10=261/0-3-8, 12=340/0-3-8, 9=265/0-3-8
Max Horz 1=-164(load case 3)
Max Uplift1=-46(load case 3), 8=-9(load case 3), 11=-102(load case 4), 10=-36(load case 4), 12=-208(load case 5), 9=-192(load case 6)
Max Grav 1=82(load case 9), 8=64(load case 10), 11=286(load case 1), 10=261(load case 1), 12=347(load case 9), 9=269(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-168/170, 2-3=-134/154, 3-4=-46/136, 4-5=-4/105, 5-6=-11/141, 6-7=-72/157, 7-8=-35/9
BOT CHORD 2-12=-77/113, 11-12=-77/113, 10-11=-84/115, 9-10=-77/114, 7-9=-77/114
WEBS 4-11=-207/125, 5-10=-195/51, 3-12=-211/212, 6-9=-159/195

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 1, 8 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 46 lb uplift at joint 1, 9 lb uplift at joint 8, 102 lb uplift at joint 11, 36 lb uplift at joint 10, 208 lb uplift at joint 12 and 192 lb uplift at joint 9.

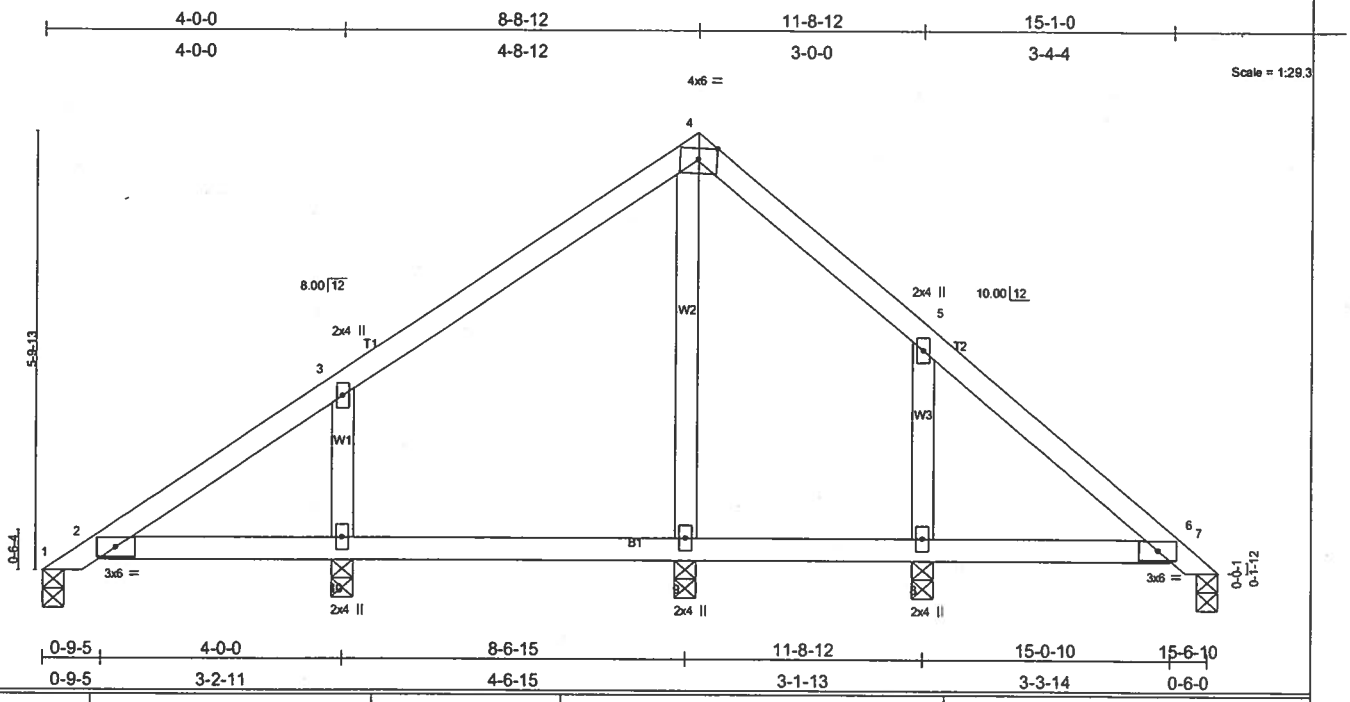
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061474

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB06	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:52 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	0.01	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	2-10	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 65 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=68/0-3-8, 9=418/0-3-8, 10=403/0-3-8, 8=305/0-3-8, 7=79/0-3-8
Max Horz 1=198(load case 4)
Max Uplift1=-53(load case 3), 9=-39(load case 5), 10=-247(load case 5), 8=-227(load case 6), 7=-6(load case 5)
Max Grav 1=79(load case 9), 9=418(load case 1), 10=409(load case 9), 8=326(load case 10), 7=81(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-207/203, 2-3=-162/156, 3-4=-51/155, 4-5=0/140, 5-6=-82/152, 6-7=-45/9
BOT CHORD 2-10=-73/136, 9-10=-73/136, 8-9=-64/135, 6-8=-64/135
WEBS 4-9=-311/70, 3-10=-260/263, 5-8=-203/226

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Bearing at joint(s) 1, 7 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 53 lb uplift at joint 1, 39 lb uplift at joint 9, 247 lb uplift at joint 10, 227 lb uplift at joint 8 and 6 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061475

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB07	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:53 2006 Page 1

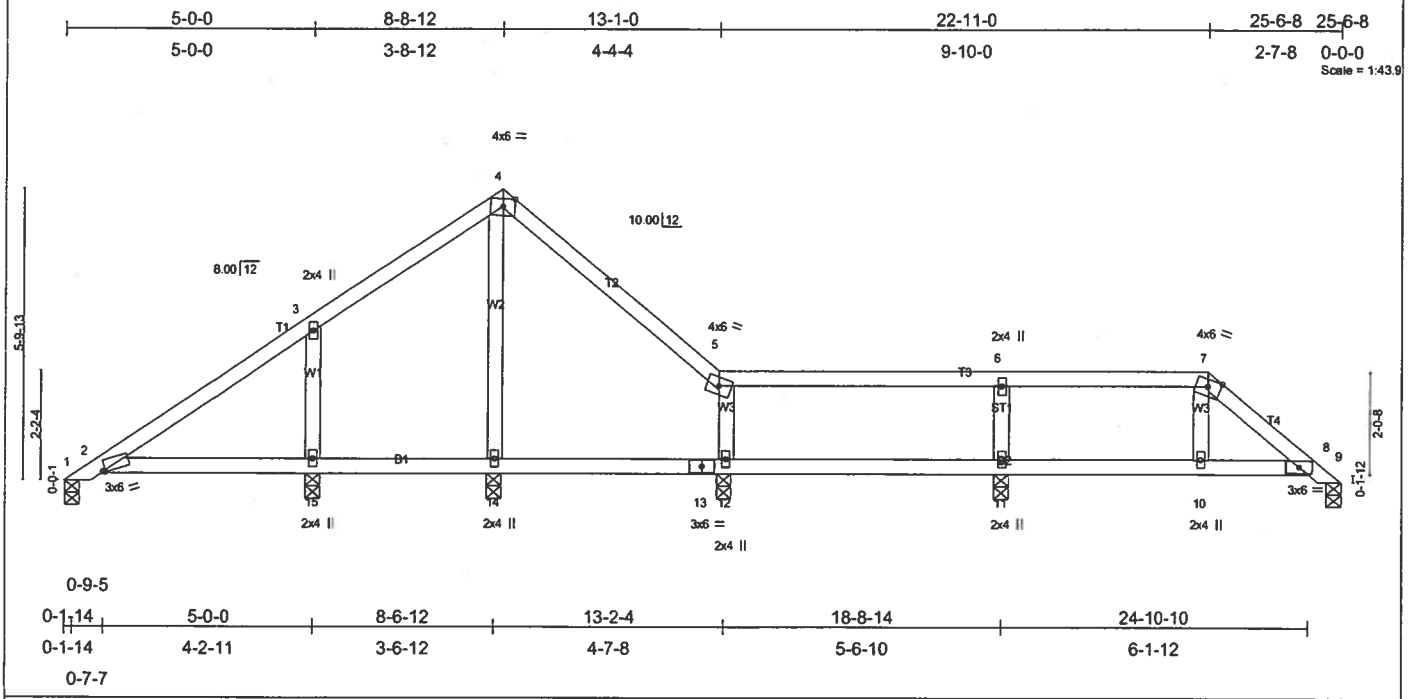


Plate Offsets (X,Y): [2:0-0-9,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.05	10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.09	10	>928	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 98 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 9=270/0-3-8, 11=537/0-3-8, 14=-25/0-3-8, 12=592/0-3-8, 15=448/0-3-8, 1=277/0-3-8
Max Horz 14=198(load case 4)
Max Uplift9=-96(load case 6), 11=-242(load case 4), 14=-110(load case 10), 12=-314(load case 6), 15=-253(load case 5), 1=-117(load case 6)
Max Grav 9=276(load case 10), 11=537(load case 1), 14=219(load case 6), 12=614(load case 10), 15=448(load case 1), 1=277(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-138/64, 2-3=-288/232, 3-4=-320/291, 4-5=-382/261, 5-6=-190/79, 6-7=-190/79, 7-8=-271/64, 8-9=-157/60
BOT CHORD 2-15=-190/235, 14-15=-190/235, 13-14=-62/229, 12-13=-62/229, 11-12=-50/189, 10-11=-50/189, 8-10=-52/186
WEBS 6-11=-332/269, 4-14=-188/216, 5-12=-468/354, 3-15=-270/249, 7-10=0/54

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 9, 1 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 96 lb uplift at joint 9, 242 lb uplift at joint 11, 110 lb uplift at joint 14, 314 lb uplift at joint 12, 253 lb uplift at joint 15 and 117 lb uplift at joint 1.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061476

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB08	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:54 2006 Page 1

5-2-3	8-8-12	11-1-0	15-1-0	16-11-0	20-11-0	25-6-8
5-2-3	3-6-9	2-4-4	4-0-0	1-10-0	4-0-0	4-7-8

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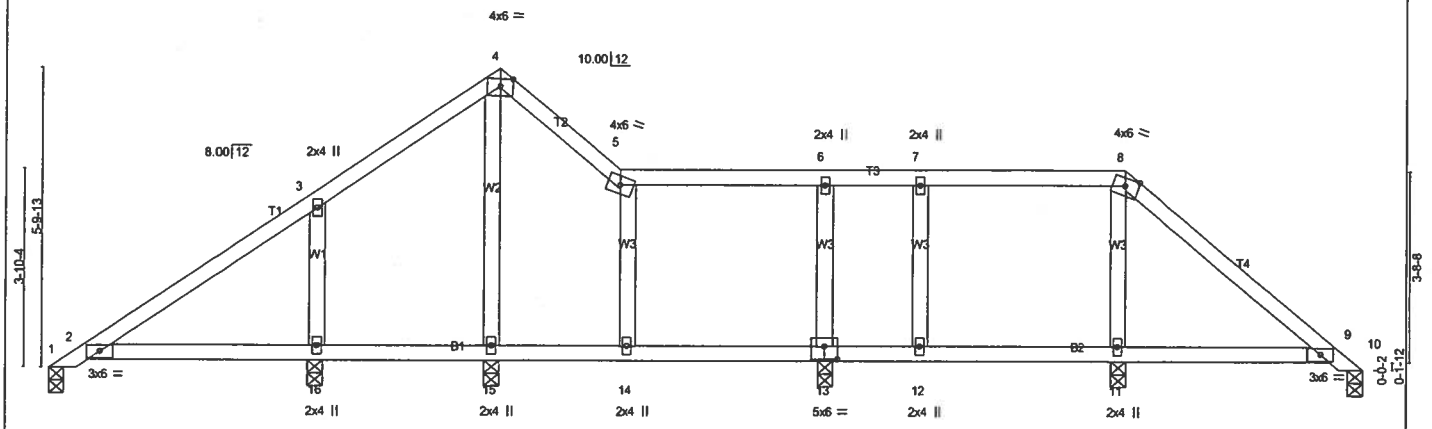


0-9-5	5-2-3	8-7-0	15-1-0	16-11-0	20-9-7	24-10-10	25-4-10
0-9-5	4-4-14	3-4-13	6-6-0	1-10-0	3-10-7	4-1-3	0-6-0

Plate Offsets (X,Y): [13:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.03	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.04	2-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 110 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=37/0-3-8, 16=399/0-3-8, 15=579/0-3-8, 13=476/0-3-8, 11=615/0-3-8, 10=-5/0-3-8
Max Horz 1=198(load case 4)
Max Uplift1=-34(load case 10), 16=-247(load case 5), 15=-161(load case 6), 13=-251(load case 4), 11=-291(load case 6), 10=-18(load case 9)
Max Grav 1=85(load case 9), 16=426(load case 9), 15=579(load case 1), 13=482(load case 10), 11=615(load case 1), 10=57(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-206/181, 2-3=-213/342, 3-4=-66/308, 4-5=-57/317, 5-6=-75/206, 6-7=-74/205, 7-8=-75/205, 8-9=-198/329, 9-10=-34/22
BOT CHORD 2-16=-220/249, 15-16=-220/249, 14-15=-207/245, 13-14=-205/248, 12-13=-205/248, 11-12=-205/248, 9-11=-186/235
WEBS 3-16=-263/255, 4-15=-473/168, 5-14=0/84, 6-13=-269/199, 7-12=-43/82, 8-11=-431/294

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 1, 10 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 34 lb uplift at joint 1, 247 lb uplift at joint 16, 161 lb uplift at joint 15, 251 lb uplift at joint 13, 291 lb uplift at joint 11 and 18 lb uplift at joint 10.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

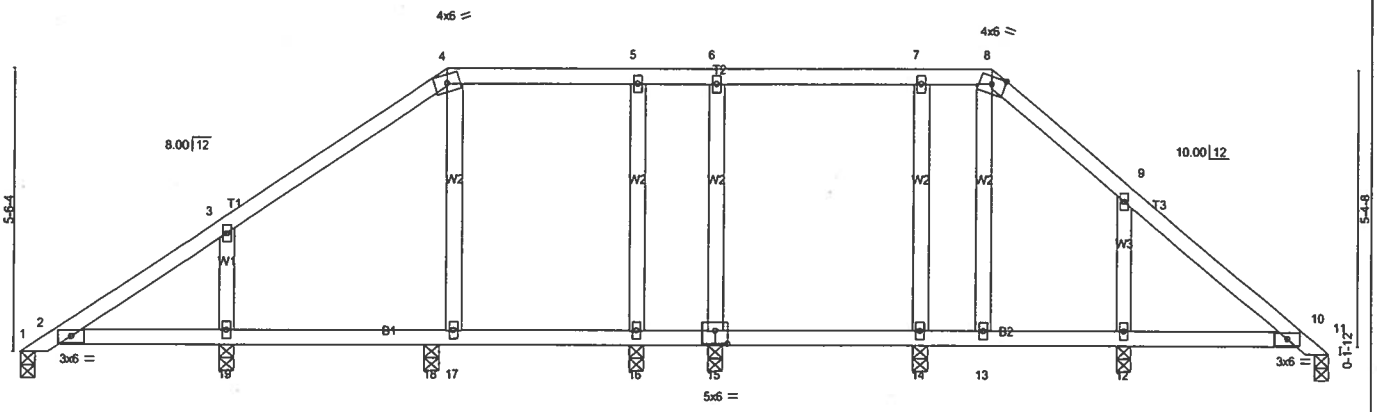
Dwg.#0418061477

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB09	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:55 2006 Page 1

4-0-0	8-3-6	12-0-0	13-6-8	17-6-8	18-11-0	21-6-8	25-6-8
4-0-0	4-3-6	3-8-10	1-6-8	4-0-0	1-4-8	2-7-8	4-0-0

Scale = 1:42.8



0-9-5	4-0-0	8-0-0	12-0-0	13-6-8	17-6-8	21-6-8	24-10-10	25-6-8
0-9-5	3-2-11	4-0-0	4-0-0	1-6-8	4-0-0	4-0-0	3-4-2	0-7-14

Plate Offsets (X,Y): [15:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	Vert(LL)	0.01	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.02	16-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 122 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=107/0-3-8, 11=102/0-3-8, 19=365/0-3-8, 12=369/0-3-8, 16=250/0-3-8, 15=205/0-3-8, 14=361/0-3-8, 18=342/0-3-8
Max Horz 1=-189(load case 3)
Max Uplift1=-48(load case 3), 11=-3(load case 6), 19=-228(load case 5), 12=-228(load case 6), 16=-118(load case 4), 15=-113(load case 3), 14=-119(load case 4), 18=-127(load case 4)
Max Grav 1=110(load case 9), 11=106(load case 10), 19=366(load case 9), 12=369(load case 1), 16=252(load case 10), 15=214(load case 9), 14=361(load case 1), 18=342(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-194/192, 2-3=-151/128, 3-4=-54/101, 4-5=0/114, 5-6=0/114, 6-7=0/114, 7-8=0/114, 8-9=-42/98, 9-10=-84/102, 10-11=-59/7
BOT CHORD 2-19=-31/135, 18-19=-31/135, 17-18=-31/135, 16-17=-26/137, 15-16=-26/137, 14-15=-26/137, 13-14=-26/137, 12-13=-26/137, 10-12=-26/137
WEBS 4-17=-230/162, 8-13=-37/5, 3-19=-242/248, 9-12=-213/230, 5-16=-148/128, 6-15=-153/135, 7-14=-210/154

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 11 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 48 lb uplift at joint 1, 3 lb uplift at joint 11, 228 lb uplift at joint 19, 228 lb uplift at joint 12, 118 lb uplift at joint 16, 113 lb uplift at joint 15, 119 lb uplift at joint 14 and 127 lb uplift at joint 18.

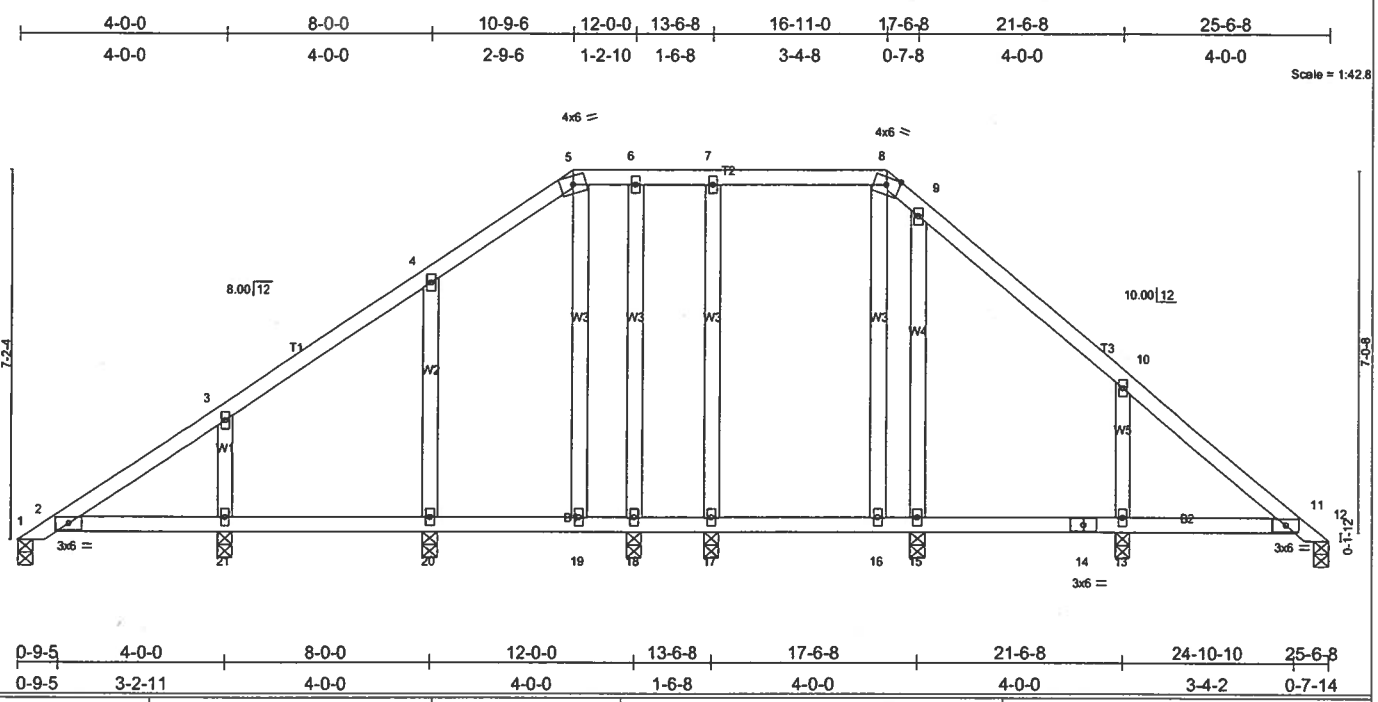
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061478

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB10	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:56 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	2-21	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.02	2-21	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 142 lb	

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

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

REACTIONS (lb/size) 1=109/0-3-8, 12=109/0-3-8, 21=366/0-3-8, 20=341/0-3-8, 18=236/0-3-8, 17=223/0-3-8, 15=351/0-3-8, 13=366/0-3-8
Max Horz 1=-247(load case 3)
Max Uplift1=-71(load case 3), 12=-14(load case 4), 21=-219(load case 5), 20=-186(load case 5), 18=-68(load case 4), 17=-133(load case 3), 15=-84(load case 6), 13=-275(load case 6)
Max Grav 1=120(load case 9), 12=113(load case 10), 21=370(load case 9), 20=341(load case 1), 18=236(load case 1), 17=243(load case 10), 15=351(load case 1), 13=367(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-255/254, 2-3=-186/170, 3-4=-86/152, 4-5=-66/153, 5-6=-6/156, 6-7=-6/156, 7-8=-6/155, 8-9=-51/189, 9-10=-60/91, 10-11=-146/94, 11-12=-63/12
BOT CHORD 2-21=-61/178, 20-21=-61/178, 19-20=-61/178, 18-19=-60/178, 17-18=-60/178, 16-17=-60/178, 15-16=-62/179, 14-15=-62/179, 13-14=-62/179, 11-13=-62/179
WEBS 5-19=-44/38, 8-16=-52/59, 3-21=-228/232, 4-20=-211/211, 6-18=-109/47, 7-17=-157/142, 9-15=-203/159, 10-13=-227/284

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 12 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 71 lb uplift at joint 1, 14 lb uplift at joint 12, 219 lb uplift at joint 21, 186 lb uplift at joint 20, 68 lb uplift at joint 18, 133 lb uplift at joint 17, 84 lb uplift at joint 15 and 275 lb uplift at joint 13.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061479

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB11	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:57 2006 Page 1

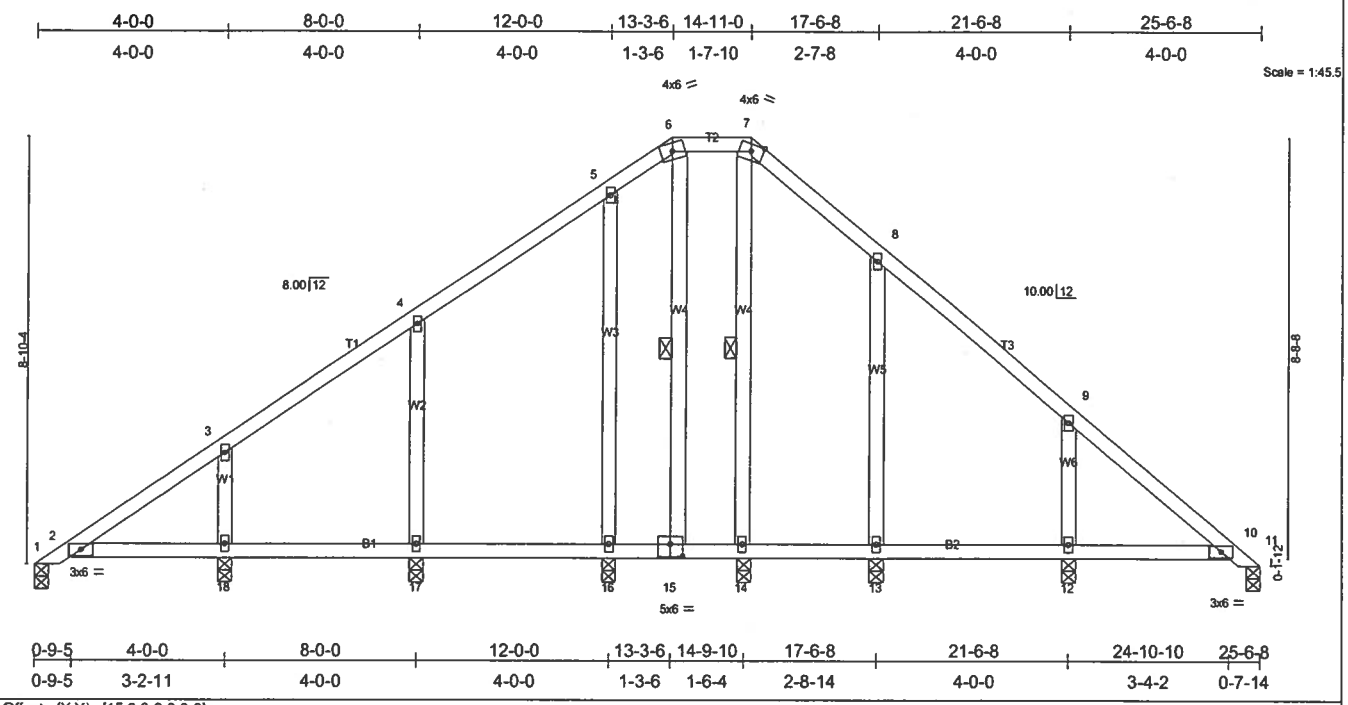


Plate Offsets (X,Y): [15:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	0.01	2-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	2-18	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 140 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 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-15, 7-14

REACTIONS (lb/size) 1=87/0-3-8, 11=80/0-3-8, 18=361/0-3-8, 17=335/0-3-8, 16=324/0-3-8, 14=259/0-3-8, 13=281/0-3-8, 12=373/0-3-8
Max Horz 1=-304(load case 3)
Max Uplift1=-98(load case 3), 11=-4(load case 4), 18=-207(load case 5), 17=-225(load case 5), 16=-112(load case 4), 14=-11(load case 4), 13=-237(load case 6), 12=-257(load case 6)
Max Grav 1=130(load case 4), 11=93(load case 10), 18=362(load case 9), 17=337(load case 9), 16=324(load case 1), 14=259(load case 1), 13=281(load case 1), 12=376(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-327/317, 2-3=-268/212, 3-4=-171/192, 4-5=-69/182, 5-6=0/233, 6-7=0/208, 7-8=-10/225, 8-9=-29/132, 9-10=-169/141, 10-11=-51/7
BOT CHORD 2-18=-54/196, 17-18=-54/196, 16-17=-54/196, 15-16=-54/196, 14-15=-54/196, 13-14=-51/198, 12-13=-51/198, 10-12=-51/198
WEBS 3-18=-222/220, 4-17=-221/248, 5-16=-190/160, 6-15=-69/20, 7-14=-163/13, 8-13=-185/252, 9-12=-230/276

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 11 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 98 lb uplift at joint 1, 4 lb uplift at joint 11, 207 lb uplift at joint 18, 225 lb uplift at joint 17, 112 lb uplift at joint 16, 11 lb uplift at joint 14, 237 lb uplift at joint 13 and 257 lb uplift at joint 12.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

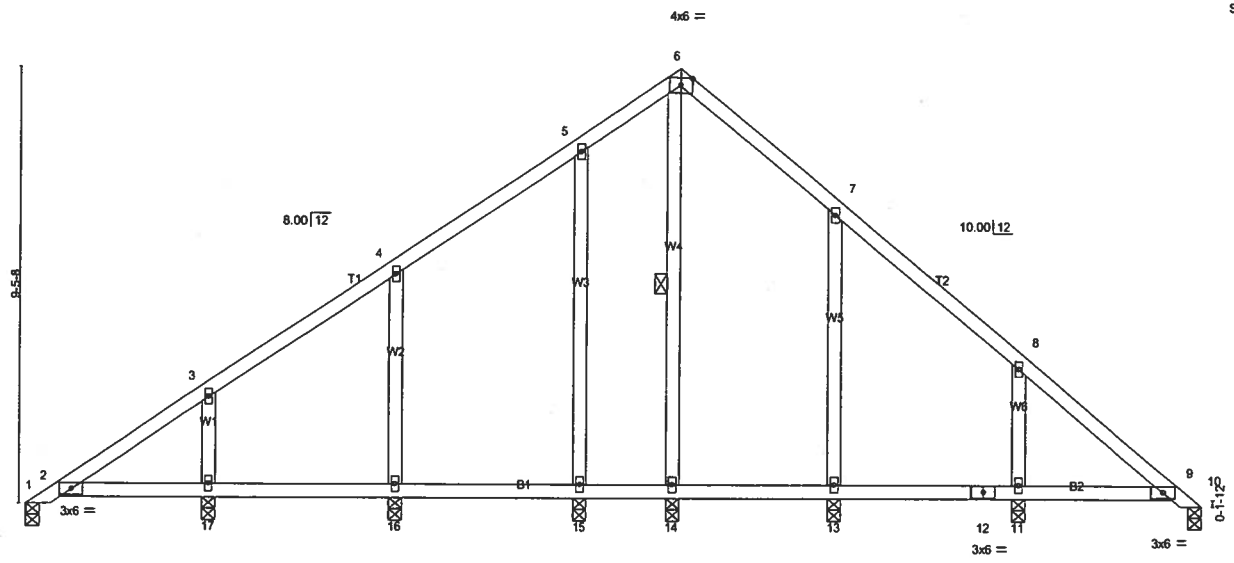
Dwg.#0418061480

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB12	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:57 2006 Page 1

0-9-5	4-0-0	8-0-0	12-0-0	14-2-4	17-6-8	21-6-8	24-10-10	25-6-8
0-9-5	3-2-11	4-0-0	4-0-0	2-2-4	3-4-4	4-0-0	3-4-2	0-7-14

Scale: 1/4"=1'



0-9-5	4-0-0	8-0-0	12-0-0	14-0-9	17-6-8	21-6-8	24-10-10	25-6-8
0-9-5	3-2-11	4-0-0	4-0-0	2-0-9	3-5-15	4-0-0	3-4-2	0-7-14

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	2-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 130 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 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-14

REACTIONS (lb/size) 1=89/0-3-8, 10=84/0-3-8, 17=360/0-3-8, 16=342/0-3-8, 15=266/0-3-8, 13=319/0-3-8, 11=367/0-3-8, 14=273/0-3-8
Max Horz 1=325(load case 4)
Max Uplift1=-106(load case 3), 17=-209(load case 5), 16=-219(load case 5), 15=-160(load case 5), 13=-241(load case 6), 11=-255(load case 6)
Max Grav 1=145(load case 4), 10=93(load case 10), 17=362(load case 9), 16=342(load case 1), 15=277(load case 9), 13=319(load case 10), 11=369(load case 10), 14=273(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-353/338, 2-3=-297/225, 3-4=-200/205, 4-5=-99/194, 5-6=-10/248, 6-7=-20/228, 7-8=-26/129, 8-9=-176/136, 9-10=-52/5
BOT CHORD 2-17=-50/201, 16-17=-50/201, 15-16=-50/201, 14-15=-50/201, 13-14=-47/204, 12-13=-47/204, 11-12=-47/204, 9-11=-47/204
WEBS 3-17=-222/221, 4-16=-222/247, 5-15=-183/177, 7-13=-207/266, 8-11=-226/272, 6-14=-200/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Bearing at joint(s) 1, 10 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 106 lb uplift at joint 1, 209 lb uplift at joint 17, 219 lb uplift at joint 16, 160 lb uplift at joint 15, 241 lb uplift at joint 13 and 255 lb uplift at joint 11.

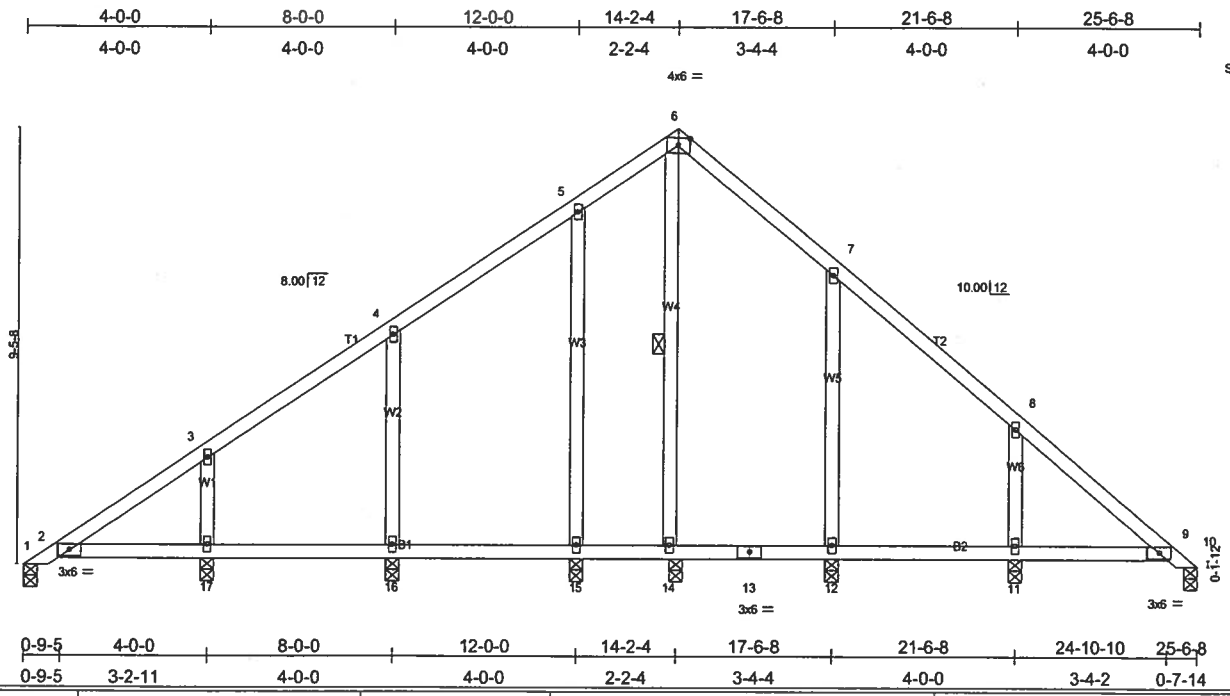
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061481

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB13	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:58 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	2-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 130 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 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-14

REACTIONS (lb/size) 1=89/0-3-8, 10=84/0-3-8, 14=273/0-3-8, 17=360/0-3-8, 16=342/0-3-8, 15=266/0-3-8, 11=367/0-3-8, 12=319/0-3-8
Max Horz 1=325(load case 4)
Max Uplift1=-106(load case 3), 17=-209(load case 5), 16=-219(load case 5), 15=-160(load case 5), 11=-255(load case 6), 12=-241(load case 6)
Max Grav 1=145(load case 4), 10=93(load case 10), 14=273(load case 1), 17=362(load case 9), 16=342(load case 1), 15=277(load case 9), 11=369(load case 10), 12=319(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-353/338, 2-3=-297/225, 3-4=-200/205, 4-5=-99/194, 5-6=-10/248, 6-7=-20/228, 7-8=-26/129, 8-9=-176/136, 9-10=-52/5
BOT CHORD 2-17=-50/201, 16-17=-50/201, 15-16=-50/201, 14-15=-50/201, 13-14=-47/204, 12-13=-47/204, 11-12=-47/204, 9-11=-47/204
WEBS 6-14=-200/0, 3-17=-222/221, 4-16=-222/247, 5-15=-183/177, 8-11=-226/272, 7-12=-207/266

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Bearing at joint(s) 1, 10 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 106 lb uplift at joint 1, 209 lb uplift at joint 17, 219 lb uplift at joint 16, 160 lb uplift at joint 15, 255 lb uplift at joint 11 and 241 lb uplift at joint 12.

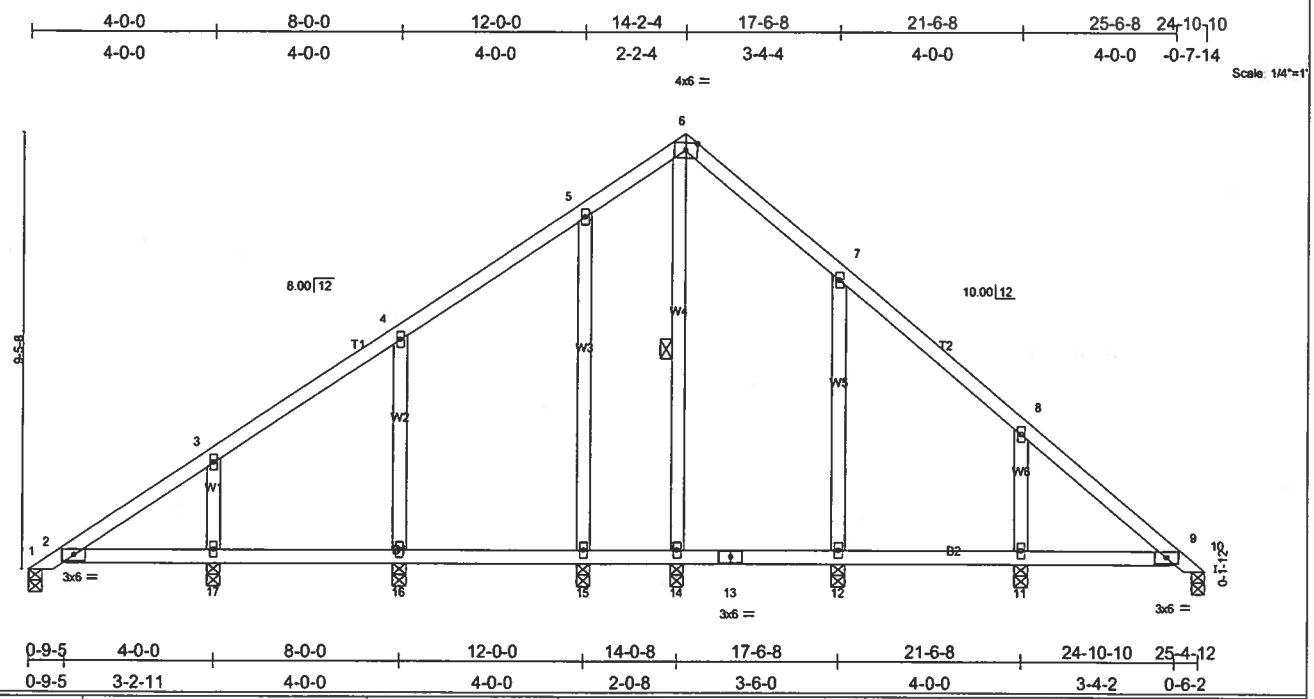
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061482

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB14	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:24:59 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	2-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	2-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 130 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 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-14

REACTIONS (lb/size) 1=89/0-3-8, 14=273/0-3-8, 17=360/0-3-8, 16=342/0-3-8, 15=266/0-3-8, 12=319/0-3-8, 11=367/0-3-8, 10=84/0-3-8
Max Horz 1=325(load case 4)
Max Uplift1=-106(load case 3), 17=-209(load case 5), 16=-219(load case 5), 15=-160(load case 5), 12=-241(load case 6), 11=-255(load case 6)
Max Grav 1=145(load case 4), 14=273(load case 1), 17=362(load case 9), 16=342(load case 1), 15=277(load case 9), 12=319(load case 10), 11=369(load case 10), 10=93(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-353/338, 2-3=-297/225, 3-4=-200/205, 4-5=-99/194, 5-6=-10/248, 6-7=-20/228, 7-8=-26/129, 8-9=-176/136, 9-10=-52/5
BOT CHORD 2-17=-50/201, 16-17=-50/201, 15-16=-50/201, 14-15=-50/201, 13-14=-47/204, 12-13=-47/204, 11-12=-47/204, 9-11=-47/204
WEBS 6-14=-200/0, 3-17=-222/221, 4-16=-222/247, 5-15=-183/177, 7-12=-207/266, 8-11=-226/272

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Bearing at joint(s) 1, 10 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 106 lb uplift at joint 1, 209 lb uplift at joint 17, 219 lb uplift at joint 16, 160 lb uplift at joint 15, 241 lb uplift at joint 12 and 255 lb uplift at joint 11.

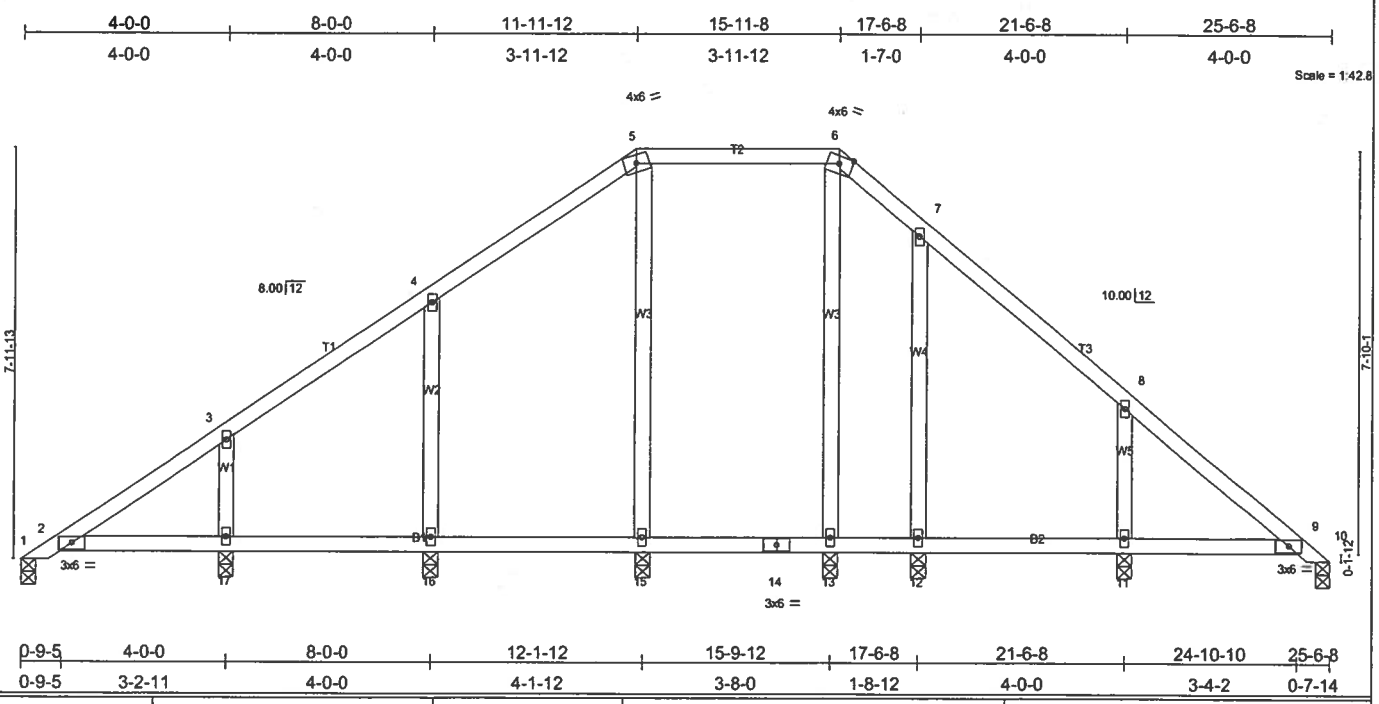
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061483

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB15	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:00 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	0.01	2-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	2-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 126 lb	

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

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

REACTIONS (lb/size) 1=89/0-3-8, 10=80/0-3-8, 15=384/0-3-8, 13=254/0-3-8, 17=363/0-3-8, 16=328/0-3-8, 12=224/0-3-8, 11=377/0-3-8
Max Horz 1=-274(load case 3)
Max Uplift1=-90(load case 3), 10=-6(load case 4), 15=-132(load case 4), 13=-77(load case 4), 17=-214(load case 5), 16=-214(load case 5), 12=-187(load case 6), 11=-269(load case 6)
Max Grav 1=107(load case 4), 10=91(load case 10), 15=384(load case 1), 13=257(load case 10), 17=363(load case 1), 16=339(load case 9), 12=224(load case 1), 11=381(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-290/287, 2-3=-225/203, 3-4=-128/186, 4-5=-32/203, 5-6=0/204, 6-7=0/241, 7-8=-29/130, 8-9=-123/142, 9-10=-50/8
BOT CHORD 2-17=-55/160, 16-17=-55/160, 15-16=-55/160, 14-15=-55/160, 13-14=-55/160, 12-13=-53/162, 11-12=-53/162, 9-11=-53/162
WEBS 5-15=-259/155, 6-13=-183/92, 3-17=-224/224, 4-16=-222/242, 7-12=-145/208, 8-11=-234/283

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 10 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 90 lb uplift at joint 1, 6 lb uplift at joint 10, 132 lb uplift at joint 15, 77 lb uplift at joint 13, 214 lb uplift at joint 17, 214 lb uplift at joint 16, 187 lb uplift at joint 12 and 269 lb uplift at joint 11.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

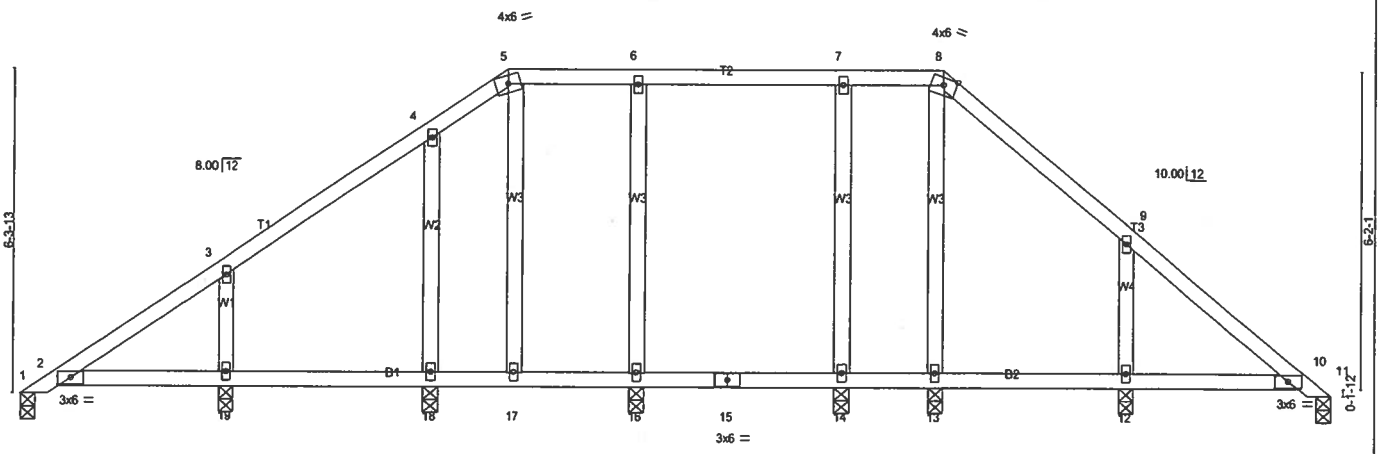
Dwg.#0418061484

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB16	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:01 2006 Page 1

4-0-0	8-0-0	9-5-12	12-0-0	16-0-0	17-11-8	21-6-8	25-6-8
4-0-0	4-0-0	1-5-12	2-6-4	4-0-0	1-11-8	3-7-0	4-0-0

Scale = 1:42.8



0-9-5	4-0-0	8-0-0	12-0-0	16-0-0	17-9-14	21-6-8	24-10-10	25-6-8
0-9-5	3-2-11	4-0-0	4-0-0	4-0-0	1-9-14	3-8-10	3-4-2	0-7-14

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	2-19	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	2-19	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 127 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=96/0-3-8, 11=94/0-3-8, 13=227/0-3-8, 19=363/0-3-8, 18=342/0-3-8, 16=365/0-3-8, 14=247/0-3-8, 12=367/0-3-8
Max Horz 1=-216(load case 3)
Max Uplift1=-61(load case 3), 13=-29(load case 6), 19=-226(load case 5), 18=-140(load case 5), 16=-162(load case 4), 14=-142(load case 4), 12=-254(load case 6)
Max Grav 1=103(load case 9), 11=104(load case 10), 13=227(load case 1), 19=367(load case 9), 18=342(load case 1), 16=365(load case 1), 14=262(load case 9), 12=369(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-226/223, 2-3=-176/155, 3-4=-78/137, 4-5=-28/138, 5-6=0/127, 6-7=0/127, 7-8=0/127, 8-9=-43/100, 9-10=-117/119, 10-11=-58/0
BOT CHORD 2-19=-38/161, 18-19=-38/161, 17-18=-38/161, 16-17=-39/160, 15-16=-39/160, 14-15=-39/160, 13-14=-39/160, 12-13=-36/159, 10-12=-36/159
WEBS 5-17=-28/21, 8-13=-159/51, 3-19=-228/236, 4-18=-208/178, 6-16=-225/176, 7-14=-178/164, 9-12=-222/264

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 11 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 61 lb uplift at joint 1, 29 lb uplift at joint 13, 226 lb uplift at joint 19, 140 lb uplift at joint 18, 162 lb uplift at joint 16, 142 lb uplift at joint 14 and 254 lb uplift at joint 12.

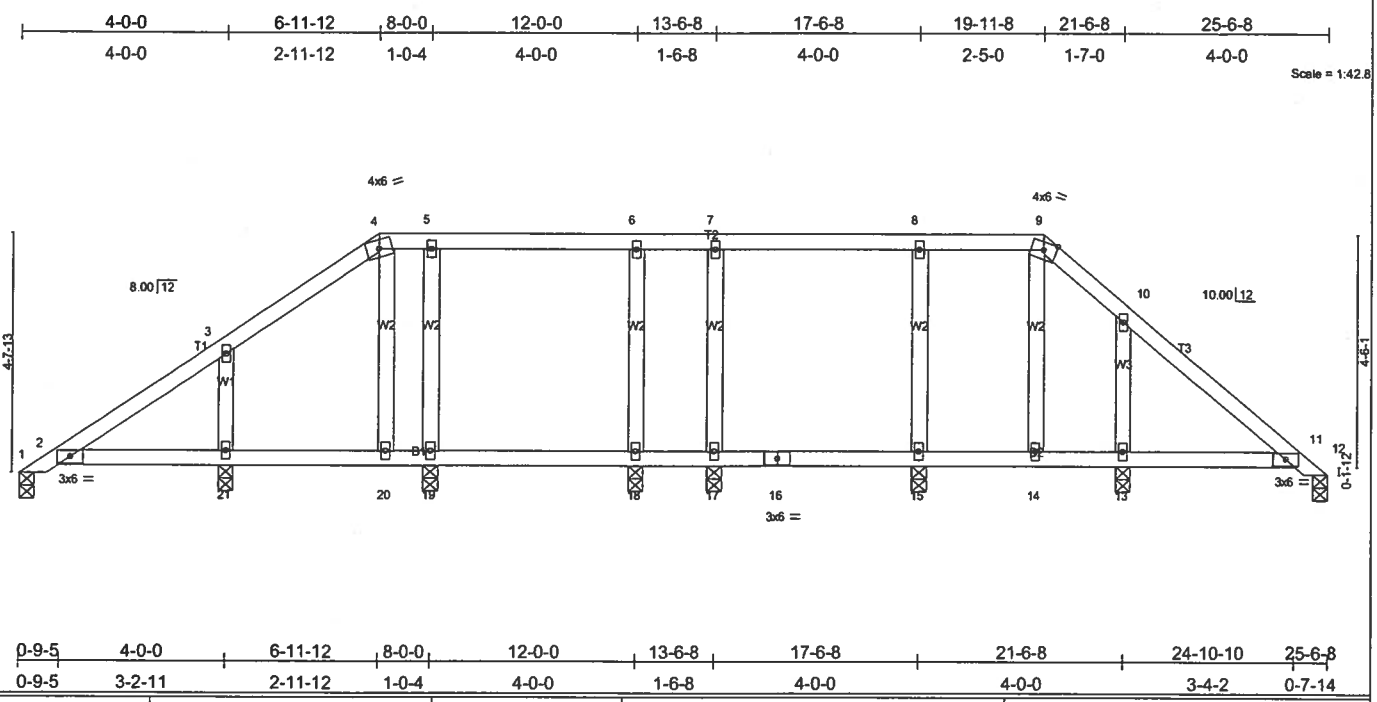
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061485

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB17	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:02 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	0.01	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	2-21	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 120 lb	

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

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

REACTIONS (lb/size) 1=99/0-3-8, 12=94/0-3-8, 21=366/0-3-8, 19=364/0-3-8, 18=221/0-3-8, 17=219/0-3-8, 15=359/0-3-8, 13=379/0-3-8
Max Horz 1=-159(load case 3)
Max Uplift1=-28(load case 3), 21=-209(load case 5), 19=-145(load case 4), 18=-123(load case 3), 17=-105(load case 4), 15=-159(load case 4), 13=-198(load case 6)
Max Grav 1=109(load case 9), 12=98(load case 10), 21=366(load case 9), 19=364(load case 1), 18=231(load case 10), 17=220(load case 9), 15=359(load case 1), 13=379(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-158/156, 2-3=-126/102, 3-4=-39/64, 4-5=0/65, 5-6=0/65, 6-7=0/65, 7-8=0/65, 8-9=0/65, 9-10=-30/67, 10-11=-93/115, 11-12=-55/5
BOT CHORD 2-21=-33/145, 20-21=-33/145, 19-20=-34/146, 18-19=-34/146, 17-18=-34/146, 16-17=-34/146, 15-16=-34/146, 14-15=-34/146, 13-14=-33/146, 11-13=-33/146
WEBS 4-20=-49/41, 9-14=-35/15, 3-21=-215/206, 5-19=-208/156, 6-18=-149/131, 7-17=-143/123, 8-15=-221/175, 10-13=-213/201

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 12 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 28 lb uplift at joint 1, 209 lb uplift at joint 21, 145 lb uplift at joint 19, 123 lb uplift at joint 18, 105 lb uplift at joint 17, 159 lb uplift at joint 15 and 198 lb uplift at joint 13.

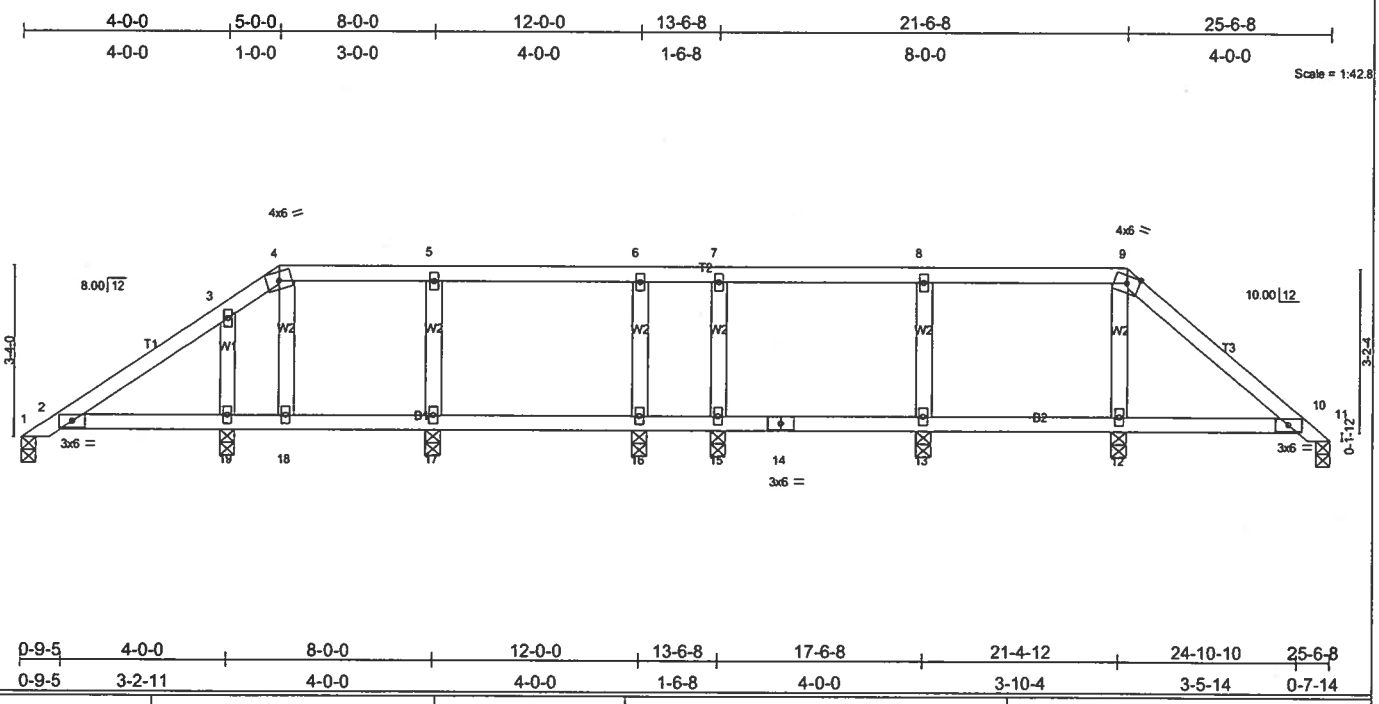
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061486

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB18	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:03 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.02	10-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 103 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 6-0-0 oc bracing.

REACTIONS (lb/size) 1=79/0-3-8, 11=84/0-3-8, 12=404/0-3-8, 19=391/0-3-8, 17=360/0-3-8, 16=216/0-3-8, 15=226/0-3-8, 13=340/0-3-8
Max Horz 1=-113(load case 3)
Max Uplift1=-24(load case 3), 11=-38(load case 3), 12=-145(load case 6), 19=-175(load case 5), 17=-166(load case 3), 16=-110(load case 4), 15=-106(load case 3), 13=-188(load case 4)
Max Grav 1=92(load case 9), 11=105(load case 10), 12=404(load case 1), 19=391(load case 1), 17=363(load case 10), 16=221(load case 9), 15=228(load case 10), 13=357(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-105/114, 2-3=-97/139, 3-4=-7/76, 4-5=0/69, 5-6=0/69, 6-7=0/69, 7-8=0/69, 8-9=0/69, 9-10=-52/144, 10-11=-58/27
BOT CHORD 2-19=-64/116, 18-19=-64/116, 17-18=-66/116, 16-17=-66/116, 15-16=-66/116, 14-15=-66/116, 13-14=-66/116, 12-13=-66/116, 10-12=-53/109
WEBS 4-18=-41/34, 9-12=-266/170, 3-19=-217/165, 5-17=-227/183, 6-16=-145/127, 7-15=-143/119, 8-13=-235/209

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 11 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 24 lb uplift at joint 1, 38 lb uplift at joint 11, 145 lb uplift at joint 12, 175 lb uplift at joint 19, 166 lb uplift at joint 17, 110 lb uplift at joint 16, 106 lb uplift at joint 15 and 188 lb uplift at joint 13.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

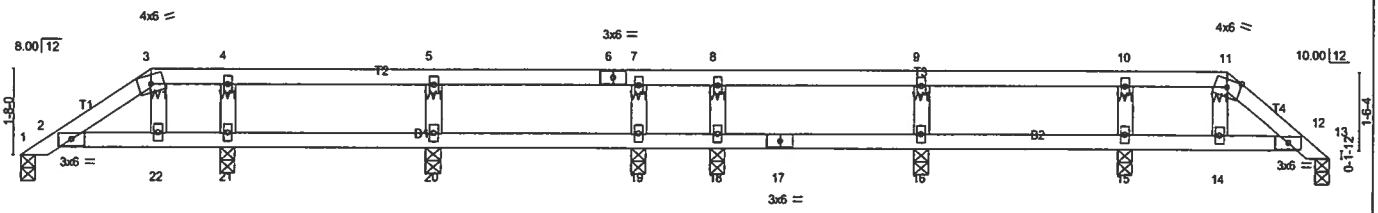
Dwg.#0418061487

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	PB19	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:04 2006 Page 1

2-6-0	4-0-0	8-0-0	12-0-0	13-6-8	17-6-8	21-6-8	23-6-8	25-6-8
2-6-0	1-6-0	4-0-0	4-0-0	1-6-8	4-0-0	4-0-0	2-0-0	2-0-0

Scale = 1:42.8



0-9-5	4-0-0	8-0-0	12-0-0	13-6-8	17-6-8	21-6-8	24-10-10	25-6-8
0-9-5	3-2-11	4-0-0	4-0-0	1-6-8	4-0-0	4-0-0	3-4-2	0-7-14

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	0.01	2-22	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	2-22	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.01	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 87 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) 1=137/0-3-8, 13=140/0-3-8, 21=345/0-3-8, 20=344/0-3-8, 19=223/0-3-8, 18=222/0-3-8, 16=346/0-3-8, 15=343/0-3-8
Max Horz 1=-55(load case 3)
Max Uplift1=-49(load case 5), 13=-54(load case 6), 21=-164(load case 4), 20=-181(load case 3), 19=-107(load case 4), 18=-107(load case 3), 16=-172(load case 4), 15=-154(load case 3)
Max Grav 1=137(load case 1), 13=140(load case 1), 21=350(load case 9), 20=354(load case 10), 19=224(load case 9), 18=224(load case 10), 16=352(load case 9), 15=346(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-67/48, 2-3=-87/43, 3-4=-59/54, 4-5=-59/55, 5-6=-59/55, 6-7=-59/55, 7-8=-59/55, 8-9=-59/55, 9-10=-59/55, 10-11=-59/54, 11-12=-95/43, 12-13=-79/37
BOT CHORD 2-22=-13/59, 21-22=-11/59, 20-21=-11/59, 19-20=-11/59, 18-19=-11/59, 17-18=-11/59, 16-17=-11/59, 15-16=-11/59, 14-15=-11/59, 12-14=-12/58
WEBS 3-22=-17/19, 11-14=0/18, 4-21=-207/163, 5-20=-229/202, 7-19=-143/121, 8-18=-143/121, 9-16=-228/198, 10-15=-208/161

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Bearing at joint(s) 1, 13 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 49 lb uplift at joint 1, 54 lb uplift at joint 13, 164 lb uplift at joint 21, 181 lb uplift at joint 20, 107 lb uplift at joint 19, 107 lb uplift at joint 18, 172 lb uplift at joint 16 and 154 lb uplift at joint 15.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061488

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T01	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:04 2006 Page 1

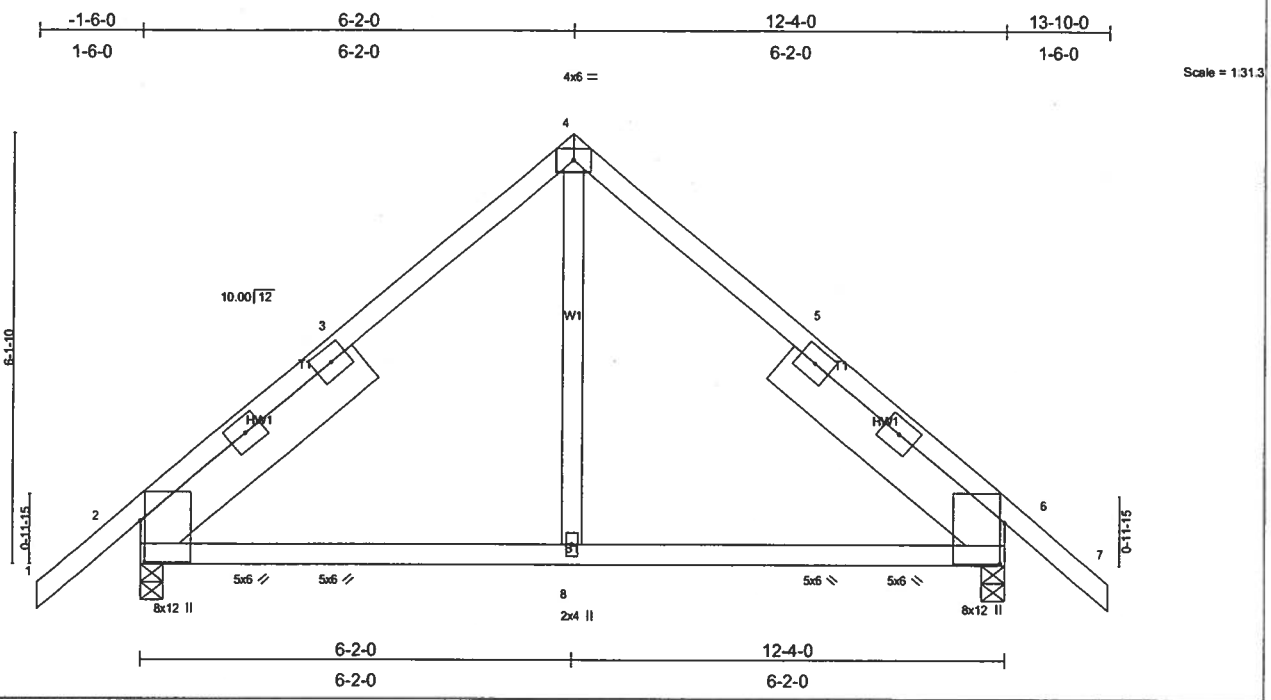


Plate Offsets (X,Y): [2:0-7-0,0-0-13], [6:0-7-0,0-0-13]

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)	0.04	2-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.05	2-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 82 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
SLIDER Left 2 X 8 SYP No.1D 4-1-8, Right 2 X 8 SYP No.1D 4-1-8

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=599/0-4-0, 6=599/0-4-0
Max Horz 2=-204(load case 3)
Max Uplift2=-243(load case 5), 6=-243(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-507/179, 3-4=-404/200, 4-5=-404/200, 5-6=-506/179, 6-7=0/30
BOT CHORD 2-8=-52/310, 6-8=-52/310
WEBS 4-8=0/204

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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 243 lb uplift at joint 2 and 243 lb uplift at joint 6.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061489

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T01G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:05 2006 Page 1

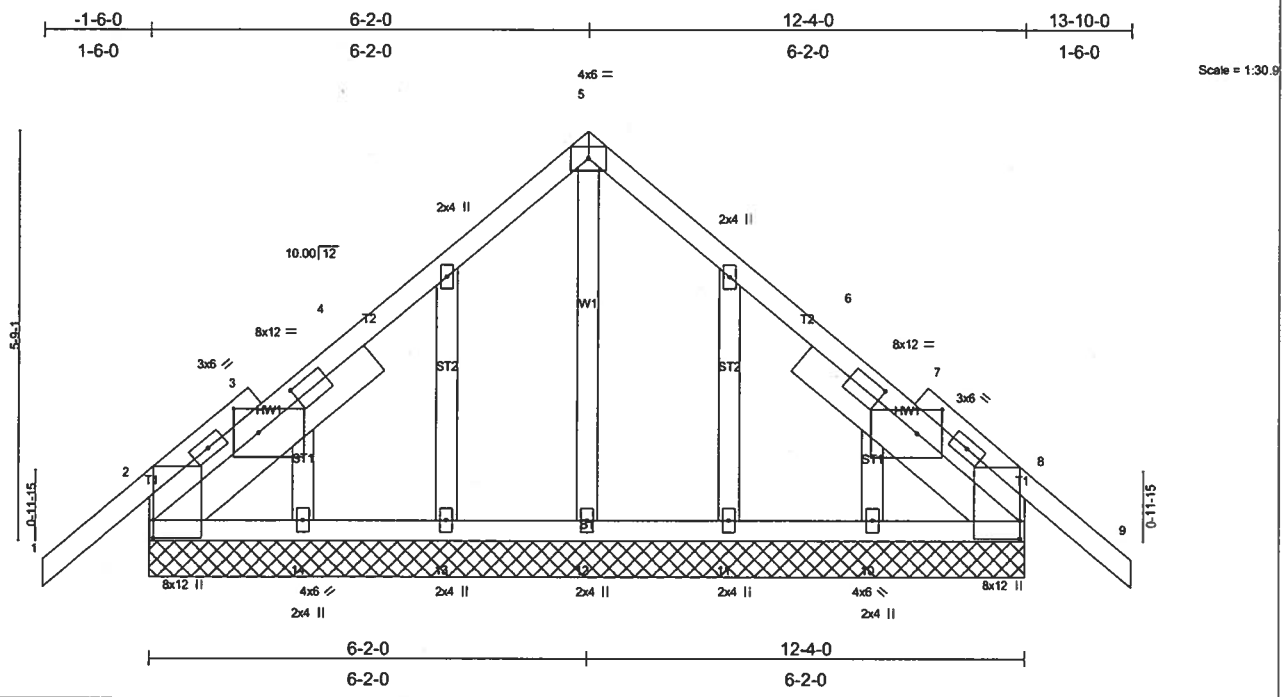


Plate Offsets (X,Y): [2:0-3-0,0-0-1], [2:2-7-11,0-2-0], [3:0-4-4,0-4-0], [7:0-4-4,0-4-0], [8:0-3-0,0-0-1], [8:2-7-11,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	0.01	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	0.02	9	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 94 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
SLIDER Left 2 X 6 SYP No.1D 3-9-15, Right 2 X 6 SYP No.1D 3-9-15

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=528/12-4-0, 8=528/12-4-0, 12=272/12-4-0, 13=24/12-4-0, 14=158/12-4-0, 11=24/12-4-0, 10=158/12-4-0
Max Horz 2=-181(load case 3)
Max Uplift2=-269(load case 5), 8=-277(load case 6), 12=-36(load case 5), 13=-6(load case 3), 14=-119(load case 5), 11=-6(load case 4), 10=-138(load case 3)
Max Grav 2=528(load case 1), 8=528(load case 1), 12=272(load case 1), 13=49(load case 5), 14=196(load case 9), 11=49(load case 6), 10=196(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/72, 2-3=-406/223, 3-4=-257/219, 4-5=-233/215, 5-6=-233/215, 6-7=-257/217, 7-8=-406/219, 8-9=-3/72
BOT CHORD 2-14=-36/168, 13-14=-54/179, 12-13=-54/179, 11-12=-54/179, 10-11=-54/179, 8-10=-67/168
WEBS 5-12=-194/33

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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) 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 269 lb uplift at joint 2, 277 lb uplift at joint 8, 36 lb uplift at joint 12, 6 lb uplift at joint 13, 119 lb uplift at joint 14, 6 lb uplift at joint 11 and 138 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

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061490

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T02	COMMON	3	1	Job Reference (optional)

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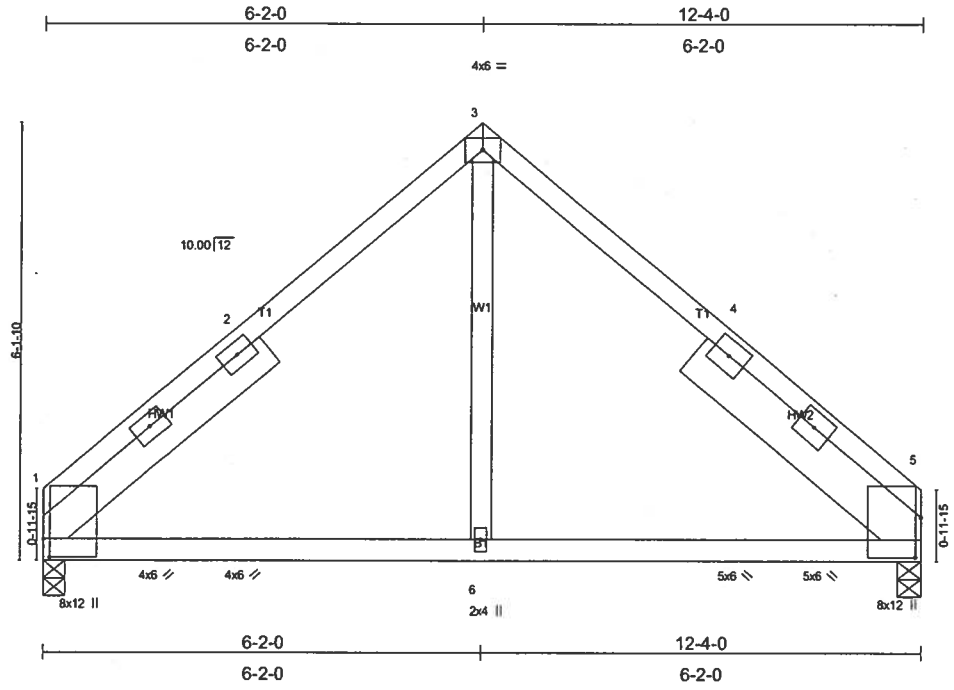

Plate Offsets (X,Y): [1:0-3-1,0-1-1], [5:0-6-12,0-0-15]

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)	0.04	1-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.06	1-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 73 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
SLIDER Left 2 X 6 SYP No.1D 4-1-8, Right 2 X 8 SYP No.1D 4-1-8

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) 1=518/0-3-8, 5=518/0-4-0
Max Horz 1=-201(load case 3)
Max Uplift1=-155(load case 5), 5=-155(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-519/193, 2-3=-422/216, 3-4=-422/216, 4-5=-518/193
BOT CHORD 1-6=-66/324, 5-6=-66/324
WEBS 3-6=-1/210

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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 155 lb uplift at joint 1 and 155 lb uplift at joint 5.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061491

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T03	COMMON	1	1	Job Reference (optional)

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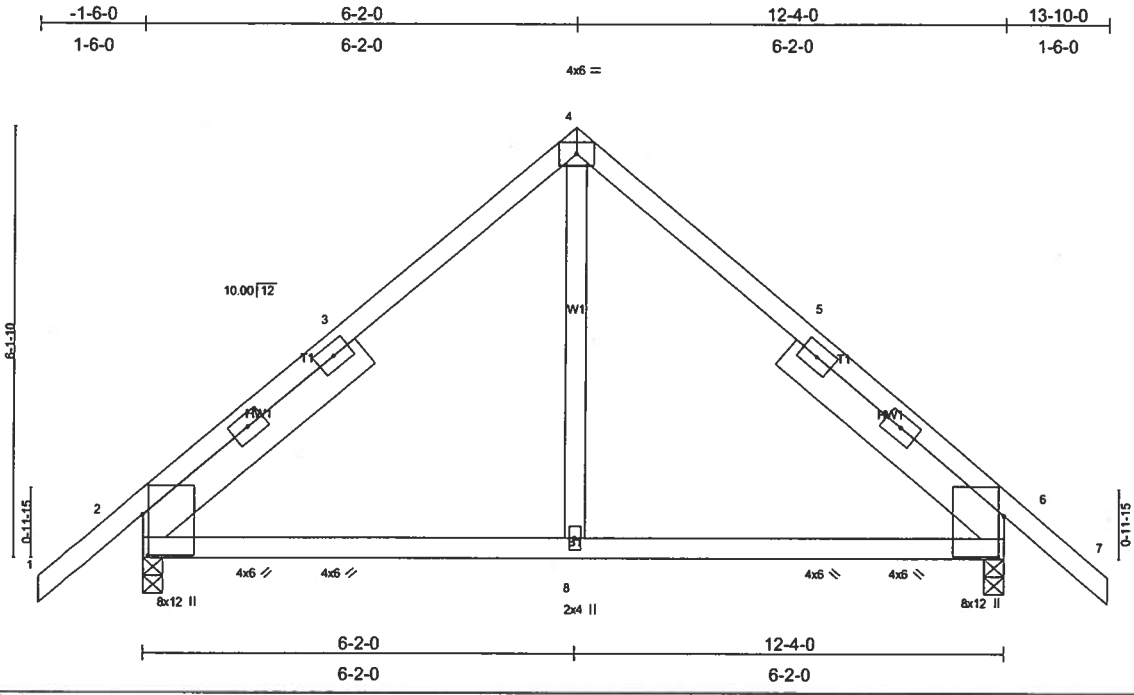

Plate Offsets (X,Y): [2:0-6-15,0-0-15], [6:0-6-15,0-0-15]

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)	0.04	2-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.05	2-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 76 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
SLIDER Left 2 X 6 SYP No.1D 4-1-8, Right 2 X 6 SYP No.1D 4-1-8

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=599/0-3-8, 6=599/0-3-8
Max Horz 2=-204(load case 3)
Max Uplift2=-243(load case 5), 6=-243(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-508/180, 3-4=-404/200, 4-5=-404/200, 5-6=-507/180, 6-7=0/30
BOT CHORD 2-8=-52/311, 6-8=-52/311
WEBS 4-8=0/206

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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 243 lb uplift at joint 2 and 243 lb uplift at joint 6.

LOAD CASE(S) Standard

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THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061492

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T03G	COMMON	1	1	Job Reference (optional)

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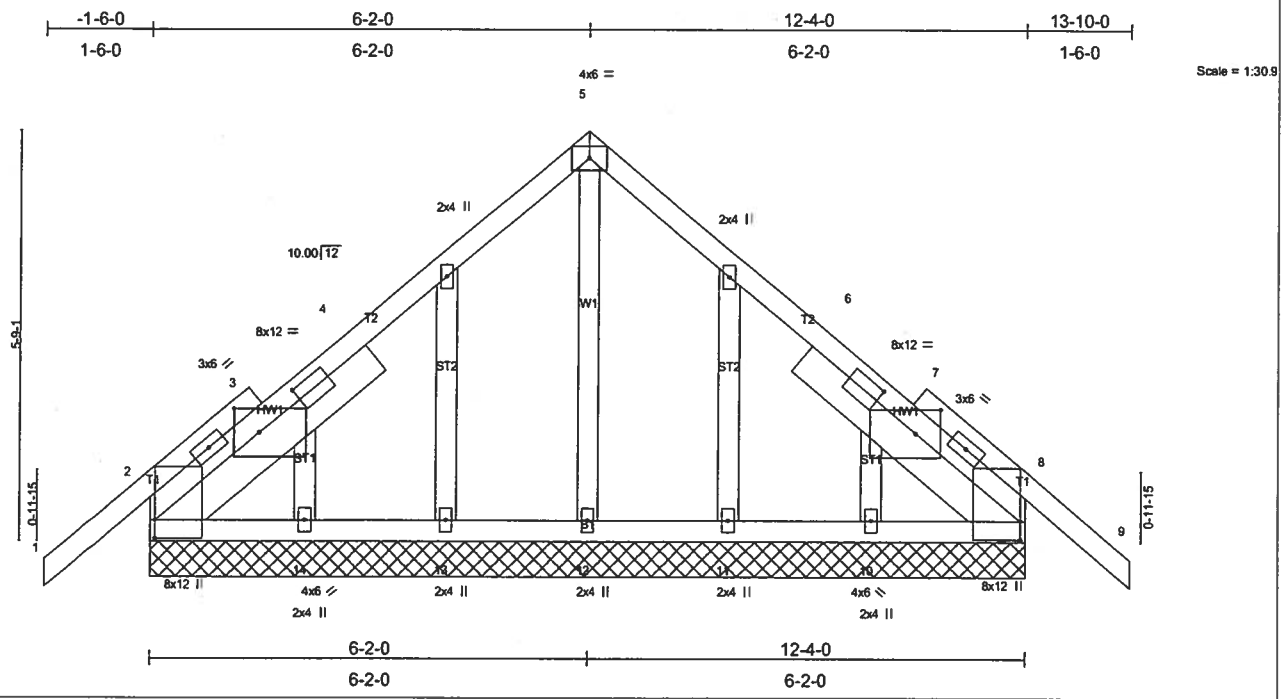

Plate Offsets (X,Y): [2:0-3-2,0-0-1], [2:2-7-11,0-2-0], [3:0-4-4,0-4-0], [7:0-4-4,0-4-0], [8:0-3-2,0-0-1], [8:2-7-11,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	0.01	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	0.02	9	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 94 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
SLIDER Left 2 X 6 SYP No.1D 3-9-15, Right 2 X 6 SYP No.1D 3-9-15

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=528/12-4-0, 8=528/12-4-0, 12=272/12-4-0, 13=24/12-4-0, 14=158/12-4-0, 11=24/12-4-0, 10=158/12-4-0
Max Horz 2=-181(load case 3)
Max Uplift2=-269(load case 5), 8=-277(load case 6), 12=-36(load case 5), 13=-6(load case 3), 14=-119(load case 5), 11=-6(load case 4), 10=-138(load case 3)
Max Grav 2=528(load case 1), 8=528(load case 1), 12=272(load case 1), 13=49(load case 5), 14=196(load case 9), 11=49(load case 6), 10=196(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/72, 2-3=-406/223, 3-4=-257/219, 4-5=-233/215, 5-6=-233/215, 6-7=-257/217, 7-8=-406/219, 8-9=-3/72
BOT CHORD 2-14=-36/168, 13-14=-54/179, 12-13=-54/179, 11-12=-54/179, 10-11=-54/179, 8-10=-67/168
WEBS 5-12=-194/33

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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) 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 269 lb uplift at joint 2, 277 lb uplift at joint 8, 36 lb uplift at joint 12, 6 lb uplift at joint 13, 119 lb uplift at joint 14, 6 lb uplift at joint 11 and 138 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

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061493

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T04	COMMON	2	1	Job Reference (optional)

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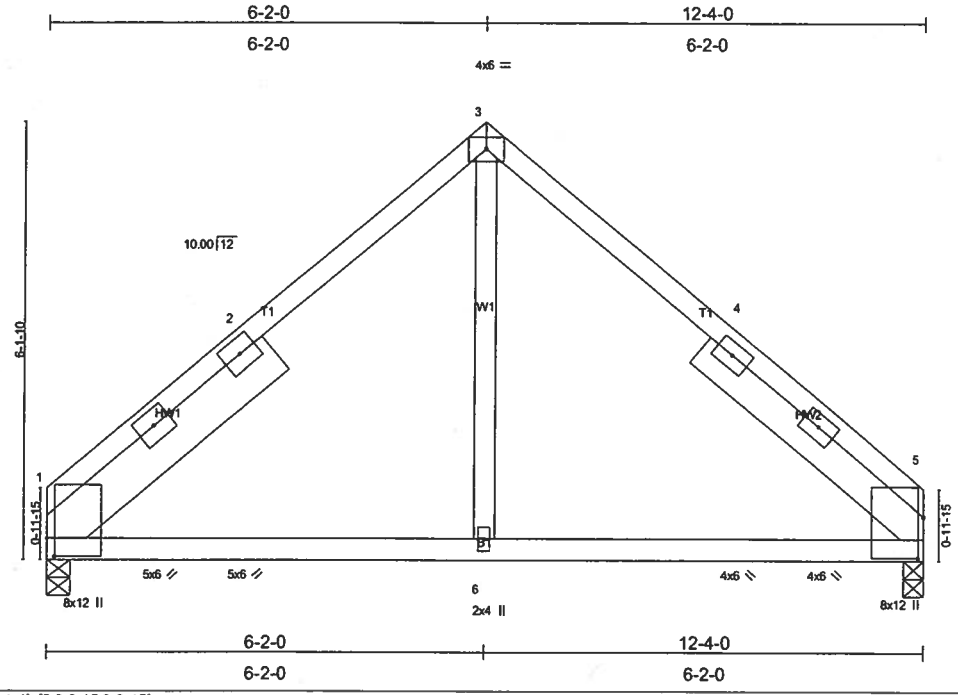

Plate Offsets (X,Y): [1:0-3-0,0-1-4], [5:0-6-15,0-0-15]

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)	0.04	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.06	5-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 73 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
SLIDER Left 2 X 8 SYP No.1D 4-1-8, Right 2 X 6 SYP No.1D 4-1-8

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) 1=518/0-4-0, 5=518/0-3-8
Max Horz 1=201(load case 4)
Max Uplift1=-155(load case 5), 5=-155(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-518/193, 2-3=-422/216, 3-4=-422/216, 4-5=-518/193
BOT CHORD 1-6=-66/324, 5-6=-66/324
WEBS 3-6=-1/210

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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 155 lb uplift at joint 1 and 155 lb uplift at joint 5.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061494

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T05	COMMON	1	2	Job Reference (optional)

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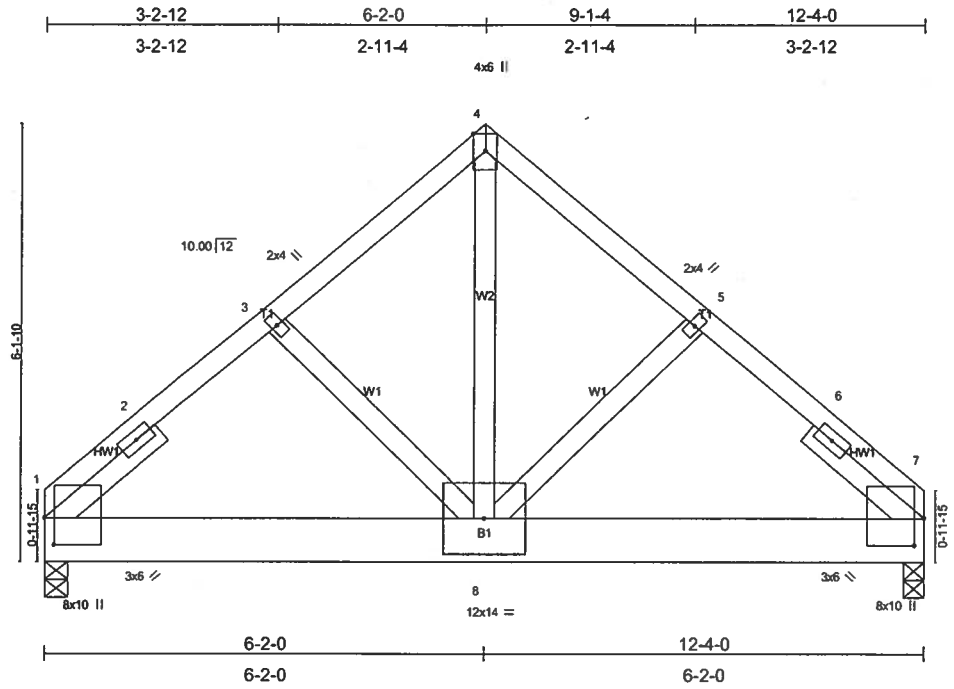

Plate Offsets (X,Y): [1:0-4-8,0-1-10], [7:0-4-10,0-1-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.07	1-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.11	1-8	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.73	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 176 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
SLIDER Left 2 X 4 SYP No.3 2-0-7, Right 2 X 4 SYP No.3 2-0-7

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) 1=5134/0-4-0, 7=3996/0-3-8
Max Horz 1=196(load case 3)
Max Uplift1=-1963(load case 4), 7=-1517(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3897/1487, 2-3=-3851/1522, 3-4=-3814/1532, 4-5=-3802/1524, 5-6=-3853/1508, 6-7=-3889/1483
BOT CHORD 1-8=-1151/2958, 7-8=-1046/2838
WEBS 3-8=-69/142, 4-8=-1812/4579, 5-8=-132/205

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-7-0 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1963 lb uplift at joint 1 and 1517 lb uplift at joint 7.
6) Girder carries tie-in span(s): 42-4-0 from 0-0-0 to 6-5-0; 24-9-0 from 6-5-0 to 12-4-0

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 1-8=-871(F=-841), 7-8=-502(F=-472)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061495

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T06	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:10 2006 Page 1

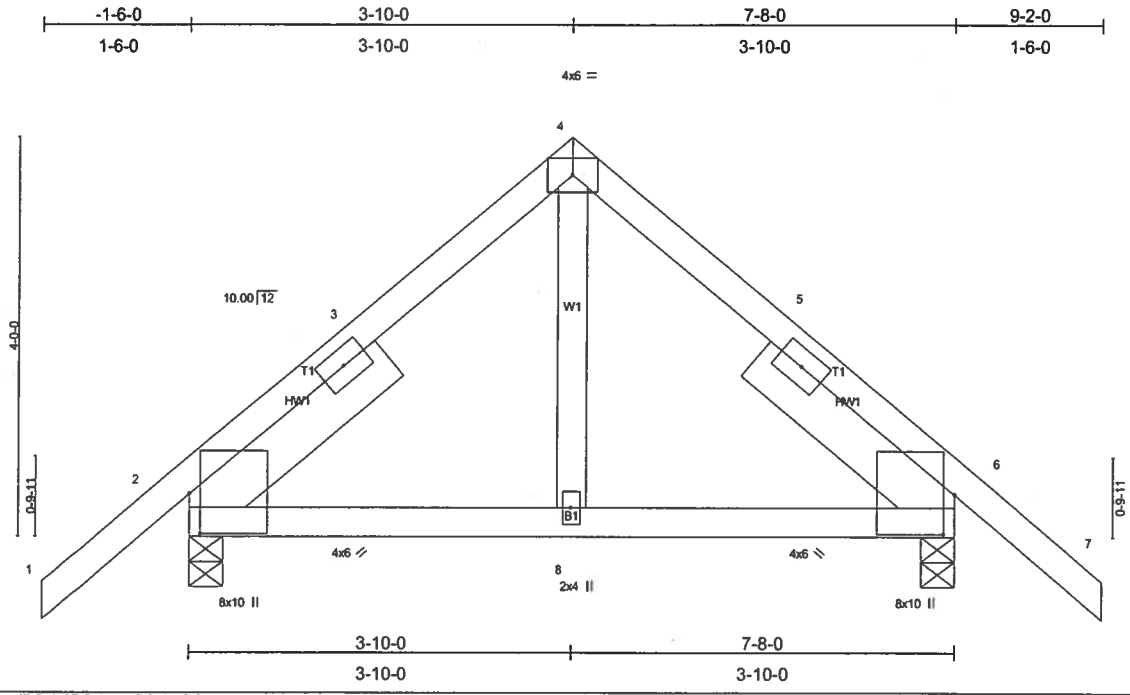

Plate Offsets (X,Y): [2:0-4-13,0-1-5], [6:0-4-13,0-1-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	0.01	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	0.01	6-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 49 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
SLIDER Left 2 X 6 SYP No.1D 2-5-14, Right 2 X 6 SYP No.1D 2-5-14

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=403/0-4-0, 6=403/0-4-0
Max Horz 2=131(load case 4)
Max Uplift2=-284(load case 5), 6=-284(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-315/288, 3-4=-228/303, 4-5=-228/303, 5-6=-315/288, 6-7=0/37
BOT CHORD 2-8=-90/175, 6-8=-90/175
WEBS 4-8=-228/120

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; 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 284 lb uplift at joint 2 and 284 lb uplift at joint 6.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061496

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T06G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:10 2006 Page 1

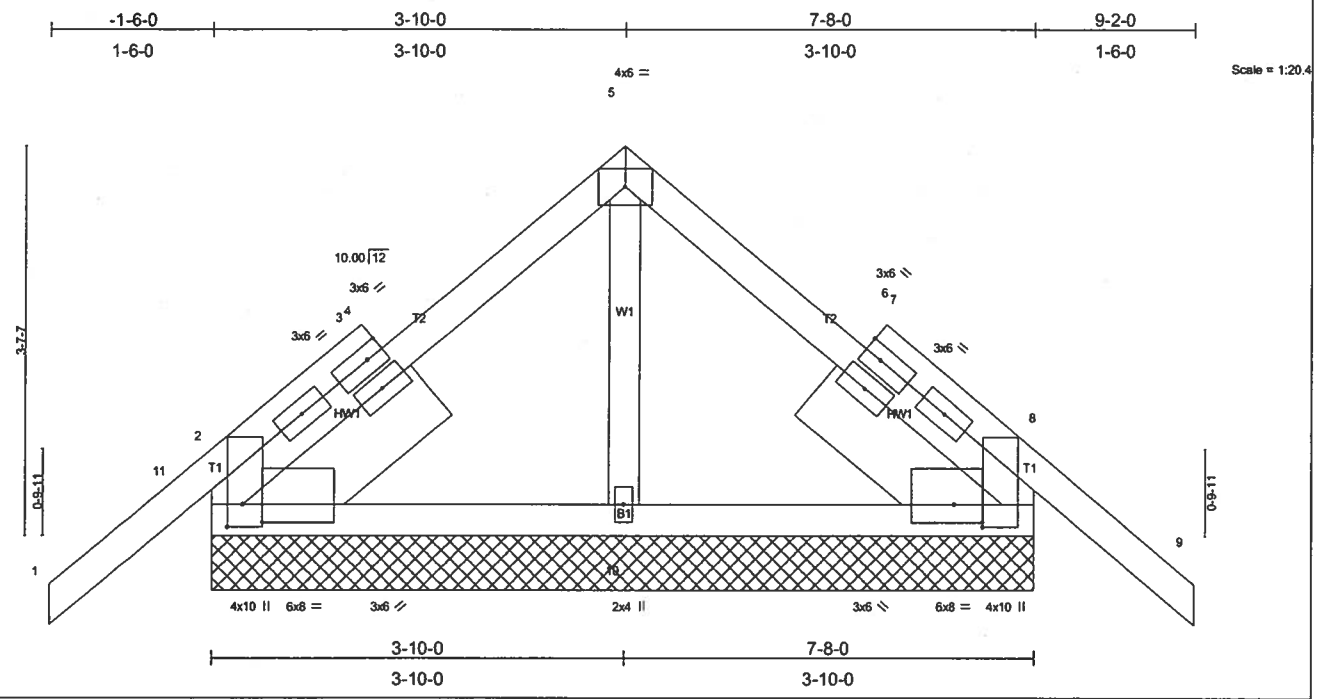

Plate Offsets (X,Y): [2:0-2-8,0-1-12], [2:0-2-4,0-2-0], [8:0-2-8,0-3-4], [8:0-3-4,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.01	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	9	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.04	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 55 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
SLIDER Left 2 X 8 SYP No.1D 2-0-4, Right 2 X 8 SYP No.1D 2-0-4

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=425/7-8-0, 8=425/7-8-0, 10=304/7-8-0
Max Horz 2=112(load case 4)
Max Uplift2=-242(load case 5), 8=-255(load case 6), 10=-53(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-4/66, 2-11=-5/78, 2-3=-198/105, 3-4=-110/100, 4-5=-90/98, 5-6=-90/98, 6-7=-110/100, 7-8=-198/105, 8-9=-5/78
BOT CHORD 2-10=-14/88, 8-10=-15/88
WEBS 5-10=-186/61

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; 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) 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 242 lb uplift at joint 2, 255 lb uplift at joint 8 and 53 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: 1-11=-87(F=-33), 2-11=-84(F=-32), 2-3=-87(F=-33), 3-4=460(F=175), 4-5=-87(F=-33), 5-6=-87(F=-33), 6-7=461(F=175), 7-8=-87(F=-33), 8-9=-84(F=-32), 2-8=-30
Horz: 2-11=-9(F=-3), 3-4=55(F=21), 6-7=-55(F=-21), 8-9=9(F=3), 2-10=-2, 8-10=2

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061497

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T07	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:11 2006 Page 1

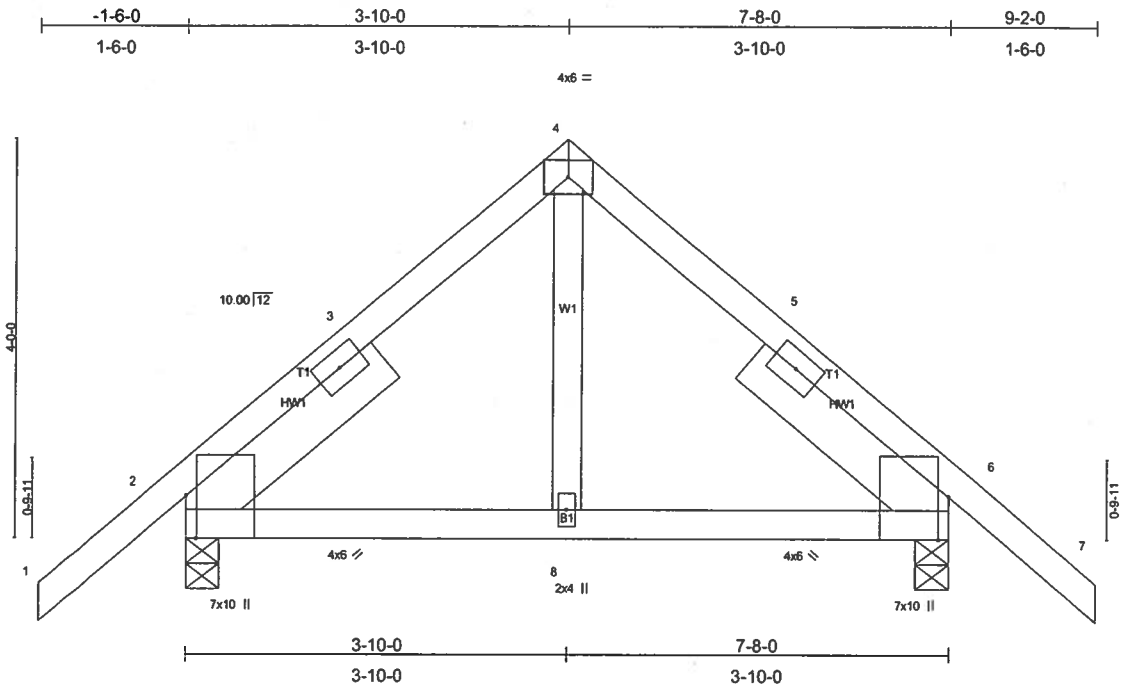

Plate Offsets (X,Y): [2:0-5-2,Edge], [6:0-5-2,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	0.01	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	0.01	6-8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 49 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
SLIDER Left 2 X 6 SYP No.1D 2-5-14, Right 2 X 6 SYP No.1D 2-5-14

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=403/0-4-0, 6=403/0-4-0
Max Horz 2=131(load case 4)
Max Uplift2=-284(load case 5), 6=-284(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-315/288, 3-4=-228/303, 4-5=-228/303, 5-6=-315/288, 6-7=0/37
BOT CHORD 2-8=-90/175, 6-8=-90/175
WEBS 4-8=-228/120

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; 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 284 lb uplift at joint 2 and 284 lb uplift at joint 6.

LOAD CASE(S) Standard

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

Dwg.#0418061498

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T08	COMMON	1	2	Job Reference (optional)

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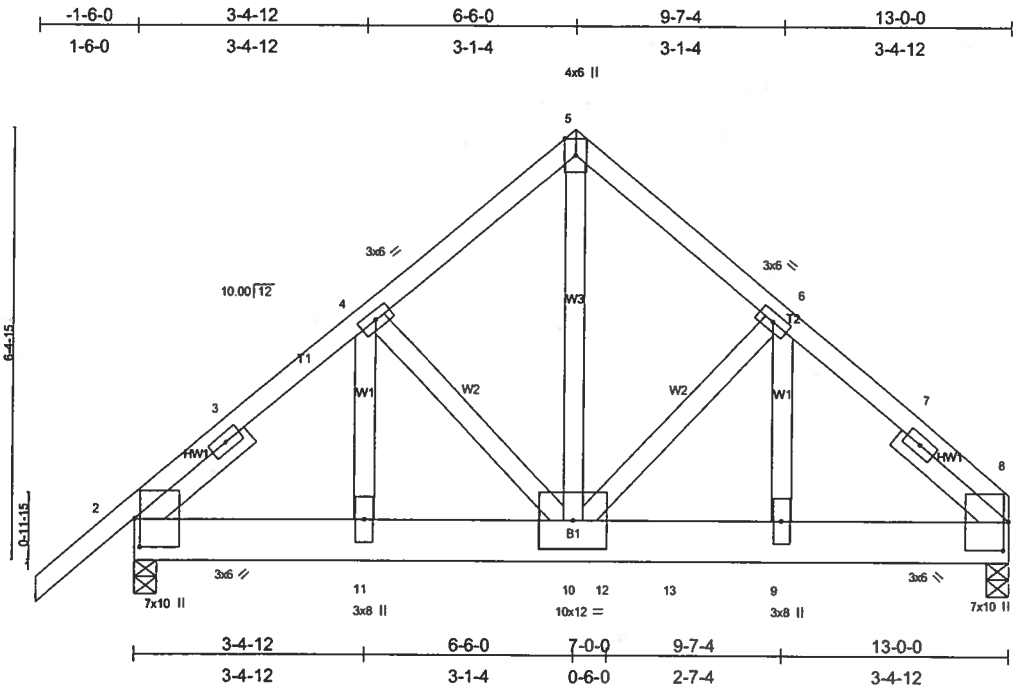

Plate Offsets (X,Y): [2:0-5-2,0-0-14], [8:0-5-2,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.07	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.63	Horz(TL)	0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 208 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3
SLIDER Left 2 X 4 SYP No.3 2-1-7, Right 2 X 4 SYP No.3 2-1-7

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 8=4646/0-4-0, 2=2601/0-4-0
Max Horz 2=223(load case 3)
Max Uplift8=-1747(load case 5), 2=-1007(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3135/1146, 3-4=-3082/1167, 4-5=-3341/1325, 5-6=-3333/1316, 6-7=-4740/1805, 7-8=-4778/1778
BOT CHORD 2-11=-819/2244, 10-11=-819/2244, 10-12=-1260/3485, 12-13=-1260/3485, 9-13=-1260/3485, 8-9=-1260/3485
WEBS 4-11=-464/215, 4-10=-223/557, 5-10=-1532/3915, 6-10=-1358/639, 6-9=-754/1989

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-4-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1747 lb uplift at joint 8 and 1007 lb uplift at joint 2.
6) Girder carries tie-in span(s): 31-10-0 from 8-0-0 to 13-0-0
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2977 lb down and 1124 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: 1-5=-54, 5-8=-54, 2-13=-30, 8-13=-650(F=-619)
Concentrated Loads (lb)
Vert: 12=-2977(F)

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16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061499

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T08G	COMMON	1	1	Job Reference (optional)

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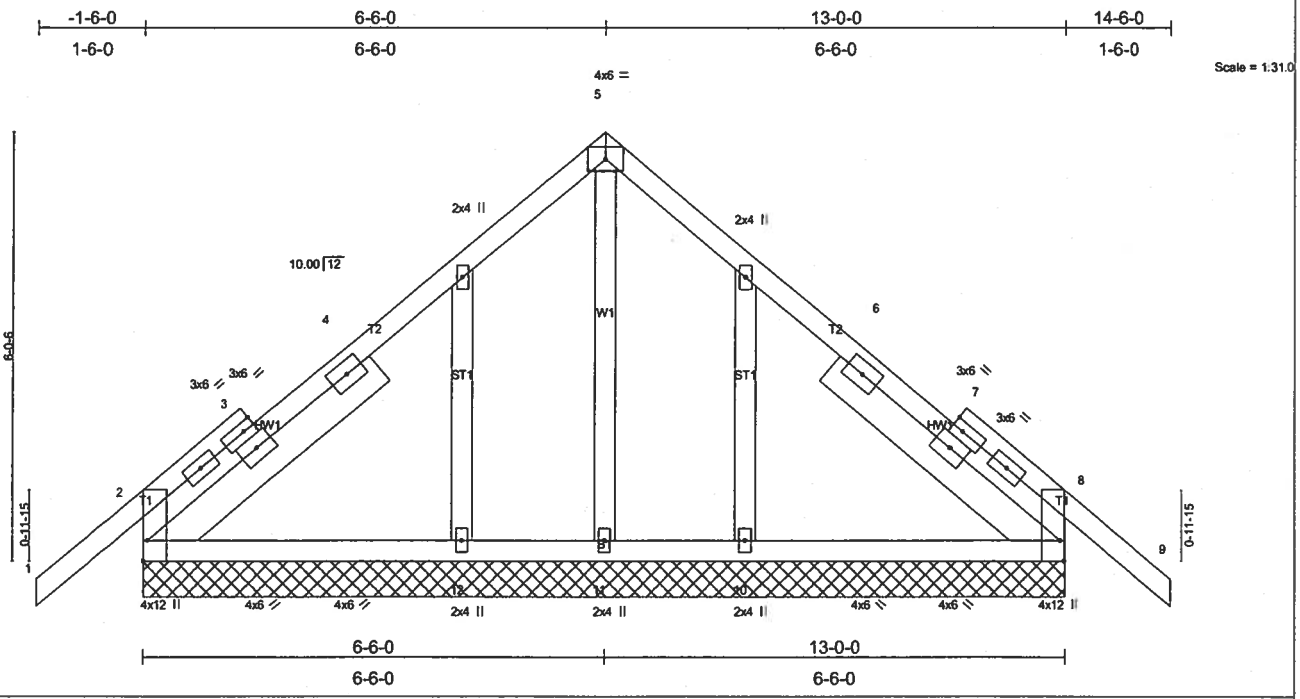

Plate Offsets (X,Y): [2:0-3-8,Edge], [8:0-3-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0.03	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	0.04	9	n/r	90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 95 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
SLIDER Left 2 X 6 SYP No.1D 4-0-9, Right 2 X 6 SYP No.1D 4-0-9

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=643/13-0-0, 8=643/13-0-0, 11=159/13-0-0, 12=162/13-0-0, 10=162/13-0-0
Max Horz 2=-190(load case 3)
Max Uplift2=-343(load case 5), 8=-359(load case 6), 11=-15(load case 4), 12=-41(load case 5), 10=-47(load case 6)
Max Grav 2=643(load case 1), 8=643(load case 1), 11=159(load case 1), 12=177(load case 9), 10=177(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3/72, 2-3=-453/249, 3-4=-296/245, 4-5=-285/239, 5-6=-285/239, 6-7=-296/240, 7-8=-453/243, 8-9=-3/72
BOT CHORD 2-12=-59/221, 11-12=-61/219, 10-11=-61/219, 8-10=-65/221
WEBS 5-11=-202/33

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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) 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 343 lb uplift at joint 2, 359 lb uplift at joint 8, 15 lb uplift at joint 11, 41 lb uplift at joint 12 and 47 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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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

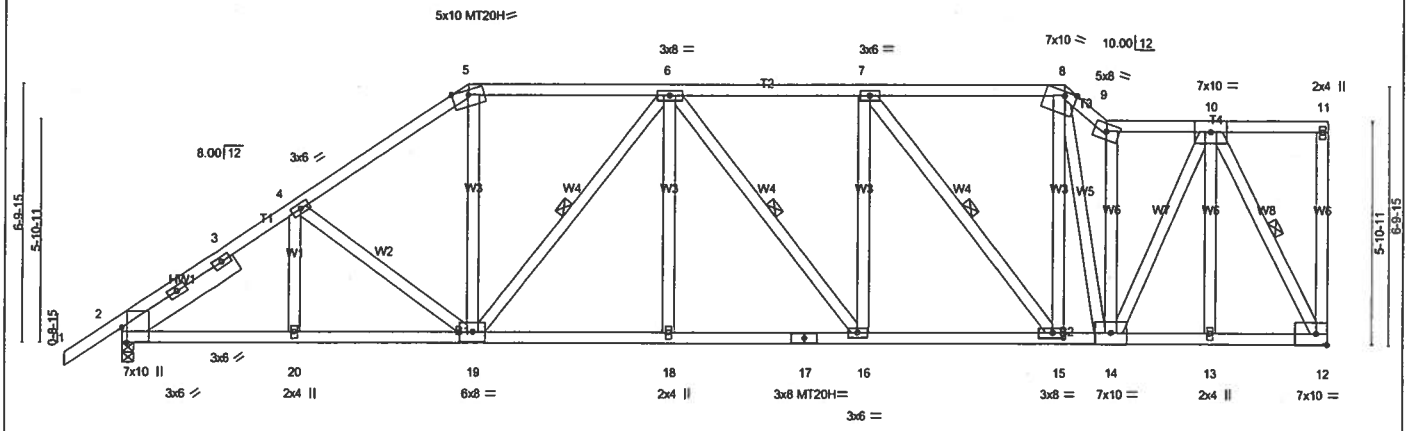
Dwg.#0418061500

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T09	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:14 2006 Page 1

-1-6-0	4-8-8	9-1-8	14-4-15	19-6-9	24-10-0	25-11-8	28-9-0	31-10-0
1-6-0	4-8-8	4-5-0	5-3-7	5-1-11	5-3-7	1-1-8	2-9-8	3-1-0

Scale = 1:58.0
Camber = 1/8 in



4-8-8	9-1-8	14-4-15	19-6-9	24-10-0	25-11-8	28-9-0	31-10-0
4-8-8	4-5-0	5-3-7	5-1-11	5-3-7	1-1-8	2-9-8	3-1-0

Plate Offsets (X,Y): [2:0-4-12,Edge], [8:0-3-13,Edge], [15:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.69	Vert(LL)	0.22	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.35	16-18	>999	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(TL)	0.14	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 245 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D *Except*
T3 2 X 4 SYP No.2, T4 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W7 2 X 4 SYP No.2
SLIDER Left 2 X 6 SYP No.1D 3-6-8

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-8 oc bracing.
WEBS 1 Row at midpt 6-19, 6-16, 7-15, 10-12

REACTIONS (lb/size) 12=2977/Mechanical, 2=2703/0-4-0
Max Horz 2=308(load case 4)
Max Uplift12=-1652(load case 3), 2=-1416(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-3=-4028/2184, 3-4=-3928/2190, 4-5=-3834/2271, 5-6=-3214/1974, 6-7=-3519/2119, 7-8=-2564/1482, 8-9=-3006/1641, 9-10=-2448/1398, 10-11=-21/11, 11-12=-68/55
BOT CHORD 2-20=-1880/3144, 19-20=-1880/3144, 18-19=-2288/3737, 17-18=-2288/3737, 16-17=-2288/3737, 15-16=-2120/3519, 14-15=-1468/2529, 13-14=-814/1449, 12-13=-814/1449
WEBS 5-19=-835/1607, 6-19=-926/609, 6-18=0/338, 6-16=-390/285, 7-16=-157/655, 7-15=-1588/1028, 8-15=-758/1524, 8-14=-297/261, 9-14=-1711/866, 10-14=-1369/2338, 10-13=-110/374, 10-12=-3074/1729, 4-19=-308/183, 4-20=0/79

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1652 lb uplift at joint 12 and 1416 lb uplift at joint 2.
7) Girder carries tie-in span(s): 7-0-0 from 24-10-0 to 31-10-0
8) Girder carries hip end with 7-0-0 right side setback, 9-1-8 left side setback, and 7-0-0 end setback.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 703 lb down and 535 lb up at 9-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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, 5-8=-118(F=-64), 8-9=-54, 9-11=-54, 2-19=-30, 15-19=-65(F=-35), 12-15=-129(F=-99)
Concentrated Loads (lb)
Vert: 19=-703(F)

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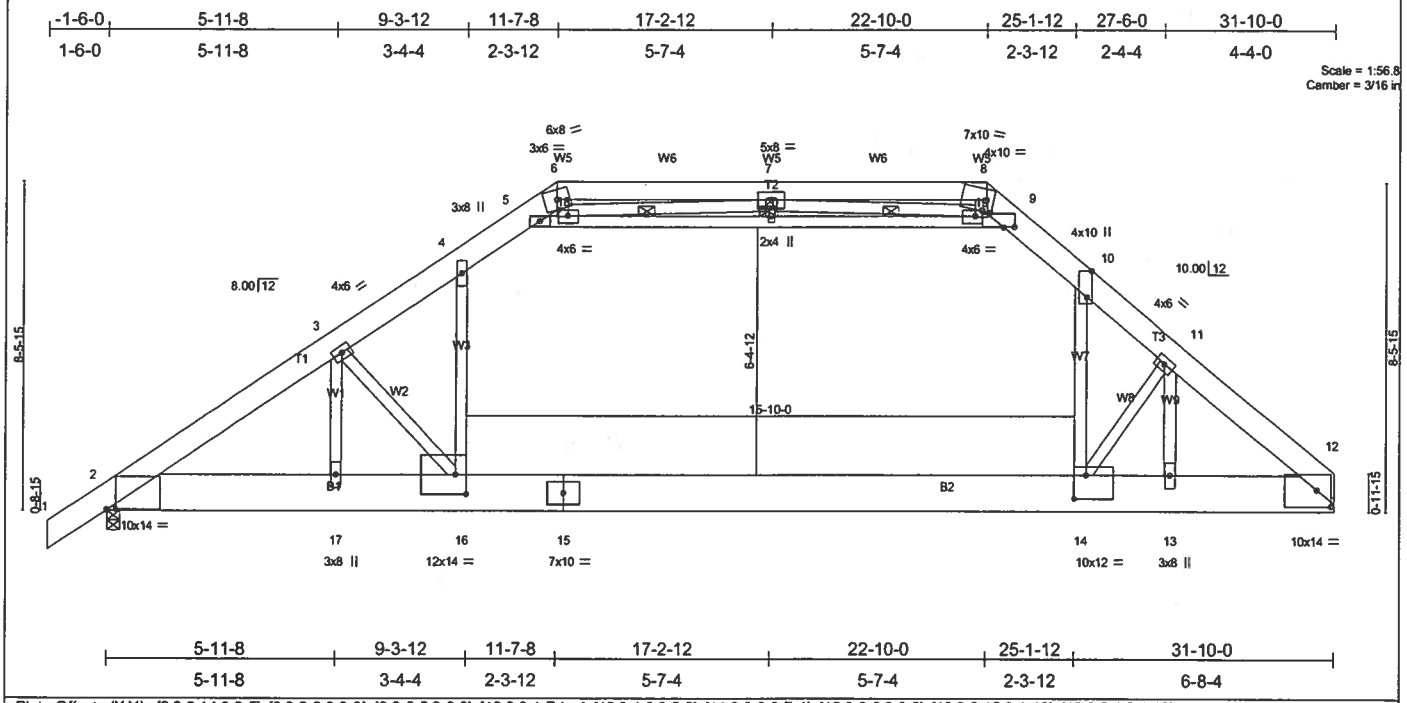
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061501

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T10	ROOF TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:15 2006 Page 1



5-11-8 9-3-12 11-7-8 17-2-12 22-10-0 25-1-12 31-10-0
5-11-8 3-4-4 2-3-12 5-7-4 5-7-4 2-3-12 6-8-4

Plate Offsets (X,Y): [2:0-2-14,0-0-5], [8:0-2-2,0-3-8], [9:0-3-5,0-0-3], [10:0-8-1,Edge], [12:0-4-6,0-5-0], [14:0-3-8,0-7-4], [16:0-3-8,0-6-0], [18:0-2-15,0-1-13], [19:0-2-1,0-1-13]

LOADING (psf)		SPACING 2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase 1.25	TC	0.66	Vert(LL)	-0.29	14-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase 1.25	BC	1.00	Vert(TL)	-0.46	14-16	>816	240		
BCLL	10.0	Rep Stress Incr YES	WB	0.86	Horz(TL)	0.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002	(Matrix)		Wind(LL)	0.08	16	>999	240	Weight: 337 lb	

LUMBER
TOP CHORD 2 X 8 SYP No.1D *Except*
T2 2 X 6 SYP No.1D
BOT CHORD 2 X 12 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W7 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS 3 Rows at 1/4 pts 5-9

REACTIONS (lb/size) 12=2176/Mechanical, 2=2146/0-4-0
Max Horz 2=293(load case 4)
Max Uplift12=-151(load case 6), 2=-305(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-3209/375, 3-4=-3264/314, 4-5=-2275/401, 5-6=-598/602, 6-7=-391/647, 7-8=0/752, 8-9=-232/577, 9-10=-2253/403, 10-11=-3612/305, 11-12=-2991/318
BOT CHORD 2-17=-315/2628, 16-17=-316/2625, 15-16=-130/2435, 14-15=-130/2435, 13-14=-148/2206, 12-13=-147/2223
WEBS 3-17=-572/92, 3-16=-392/354, 4-16=0/1611, 10-14=0/2010, 11-14=-272/614, 11-13=-1347/74, 5-18=-2249/29, 18-20=-1717/0, 19-20=-1717/0, 9-19=-3147/91, 6-18=-43/428, 8-19=-59/699, 7-20=0/58, 7-18=-702/493, 7-19=-1481/498

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-18, 18-20, 19-20, 9-19; Wall dead load (5.0psf) on member(s).4-16, 10-14
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 12 and 305 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061502

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T11	ROOF TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:16 2006 Page 1

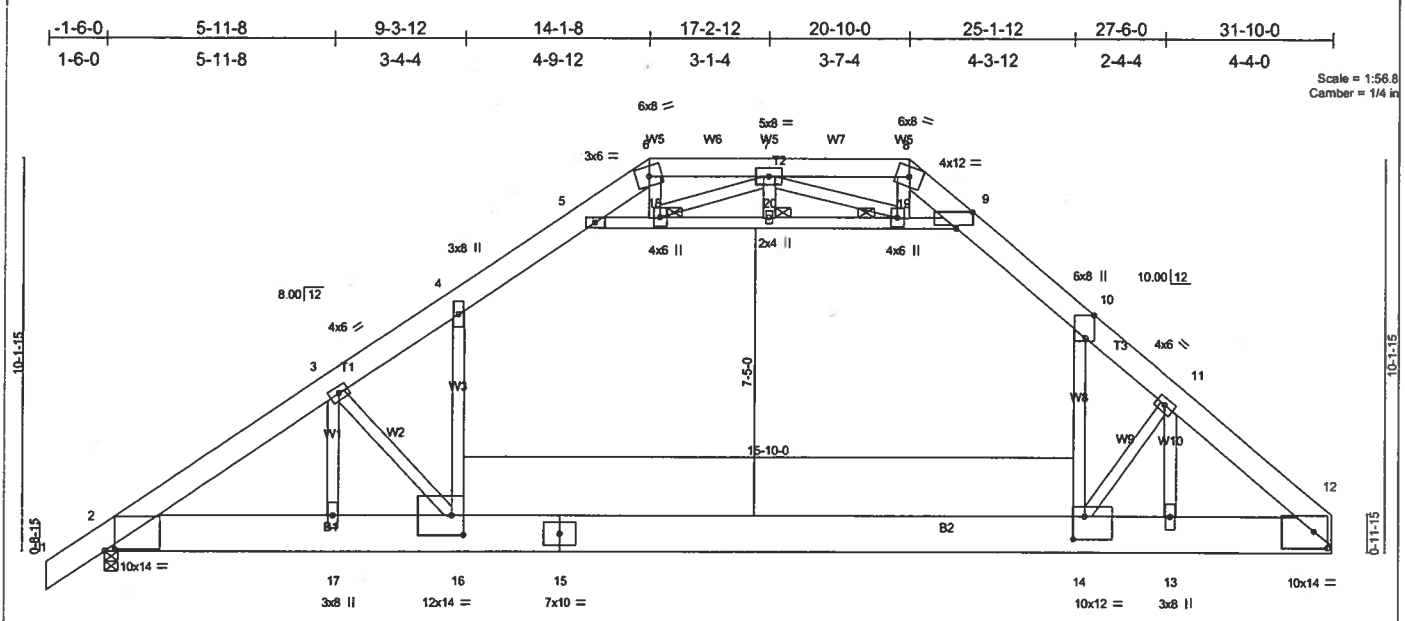


Plate Offsets (X,Y): [2:0-3-3,0-0-11], [9:Edge,0-5-3], [10:0-7-3,Edge], [12:0-4-3,0-5-0], [14:0-3-8,0-7-0], [16:0-3-8,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.66	Vert(LL)	-0.39	14-16	>963	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.94	Vert(TL)	-0.65	14-16	>586	240		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Wind(LL)	0.12	14-16	>999	240	Weight: 336 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E *Except*
T2 2 X 6 SYP No.1D
BOT CHORD 2 X 12 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-20, 9-20
JOINTS 1 Brace at Jt(s): 20

REACTIONS (lb/size) 12=2179/Mechanical, 2=2149/0-4-0
Max Horz 2=350(load case 4)
Max Uplift12=-162(load case 6), 2=-318(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-3229/360, 3-4=-3216/290, 4-5=-2134/379, 5-6=0/547, 6-7=0/771, 7-8=0/1060, 8-9=0/600, 9-10=-2121/381, 10-11=-3614/289, 11-12=-2990/300
BOT CHORD 2-17=-246/2659, 16-17=-247/2657, 15-16=-39/2262, 14-15=-39/2262, 13-14=-138/2224, 12-13=-137/2239
WEBS 3-17=-558/153, 3-16=-721/393, 4-16=0/1782, 10-14=0/2223, 11-14=-281/362, 11-13=-1329/113, 5-18=-2930/200, 18-20=-2626/114, 19-20=-2626/114, 9-19=-3353/264, 6-18=-74/357, 8-19=-64/524, 7-20=0/37, 7-18=-391/231, 7-19=-780/232

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-18, 18-20, 19-20, 9-19; Wall dead load (5.0psf) on member(s).4-16, 10-14
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 12 and 318 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061503

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T11A	ROOF TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Apr 12 13:41:15 2006 Page 1

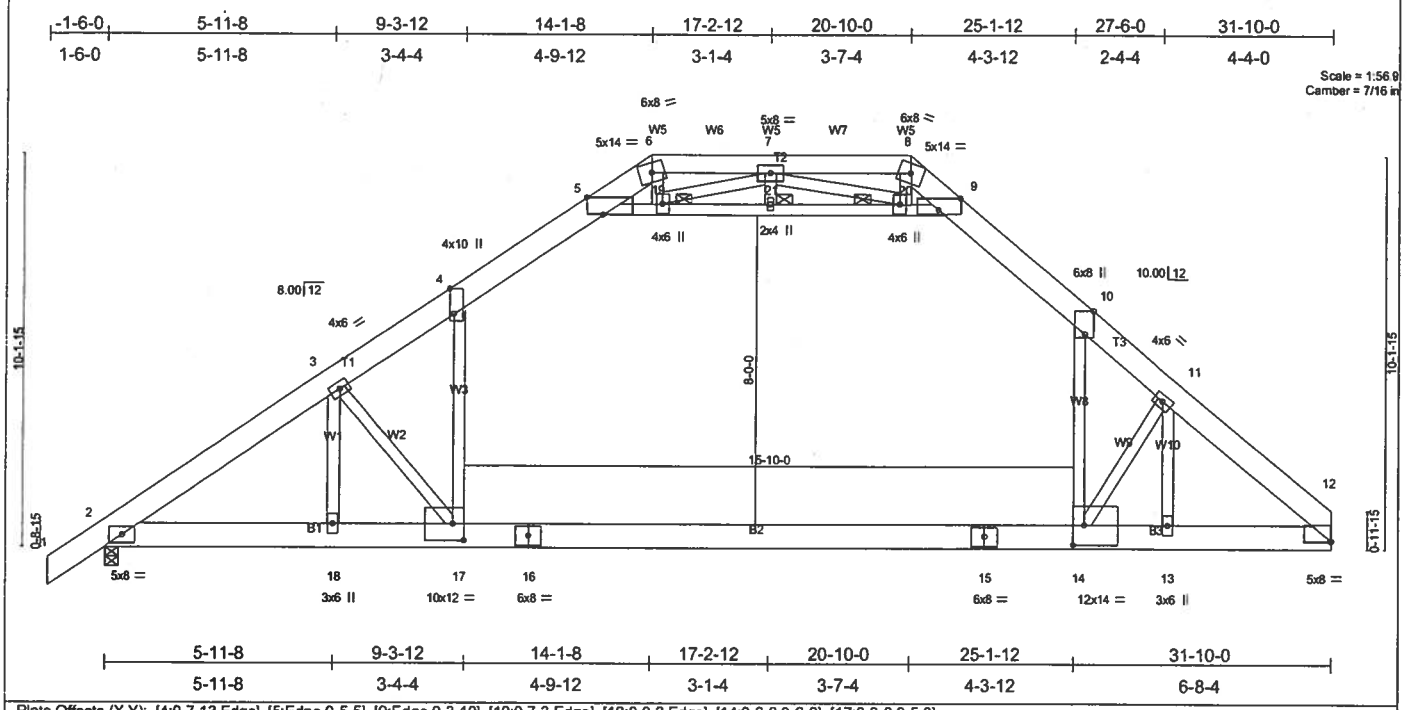


Plate Offsets (X,Y): [4:0-7-13,Edge], [5:Edge,0-5-5], [9:Edge,0-3-10], [10:0-7-3,Edge], [12:0-0-2,Edge], [14:0-3-8,0-6-0], [17:0-3-8,0-5-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.77	Vert(LL)	-0.68	14-17	>561	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.89	Vert(TL)	-1.09	14-17	>347	240		
BCLL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.05	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Wind(LL)	0.20	14-17	>999	240	Weight: 283 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E *Except*
T2 2 X 6 SYP No.1D
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-10-4 oc bracing.
WEBS 1 Row at midpt 5-21, 9-21
JOINTS 1 Brace at Jt(s): 21

REACTIONS (lb/size) 12=2182/Mechanical, 2=2151/0-4-0
Max Horz 2=352(load case 4)
Max Uplift12=-159(load case 6), 2=-315(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=-3199/372, 3-4=-3259/292, 4-5=-2092/377, 5-6=0/745, 6-7=0/1033, 7-8=-18/1578, 8-9=0/845, 9-10=-2112/382, 10-11=-3573/281, 11-12=-2914/315
BOT CHORD 2-18=-264/2610, 17-18=-266/2607, 16-17=-38/2229, 15-16=-38/2229, 14-15=-38/2229, 13-14=-143/2129, 12-13=-141/2145
WEBS 3-18=-639/89, 3-17=-720/432, 4-17=0/1935, 10-14=0/2171, 11-14=-316/456, 11-13=-1415/50, 5-19=-3200/216, 19-21=-2891/124, 20-21=-2891/124, 9-20=-3845/312, 6-19=-96/410, 8-20=-84/648, 7-21=0/38, 7-19=-437/322, 7-20=-1014/319

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-19, 19-21, 20-21, 9-20; Wall dead load (5.0psf) on member(s).4-17, 10-14
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-17
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 12 and 315 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061504

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T12	ROOF TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:17 2006 Page 1

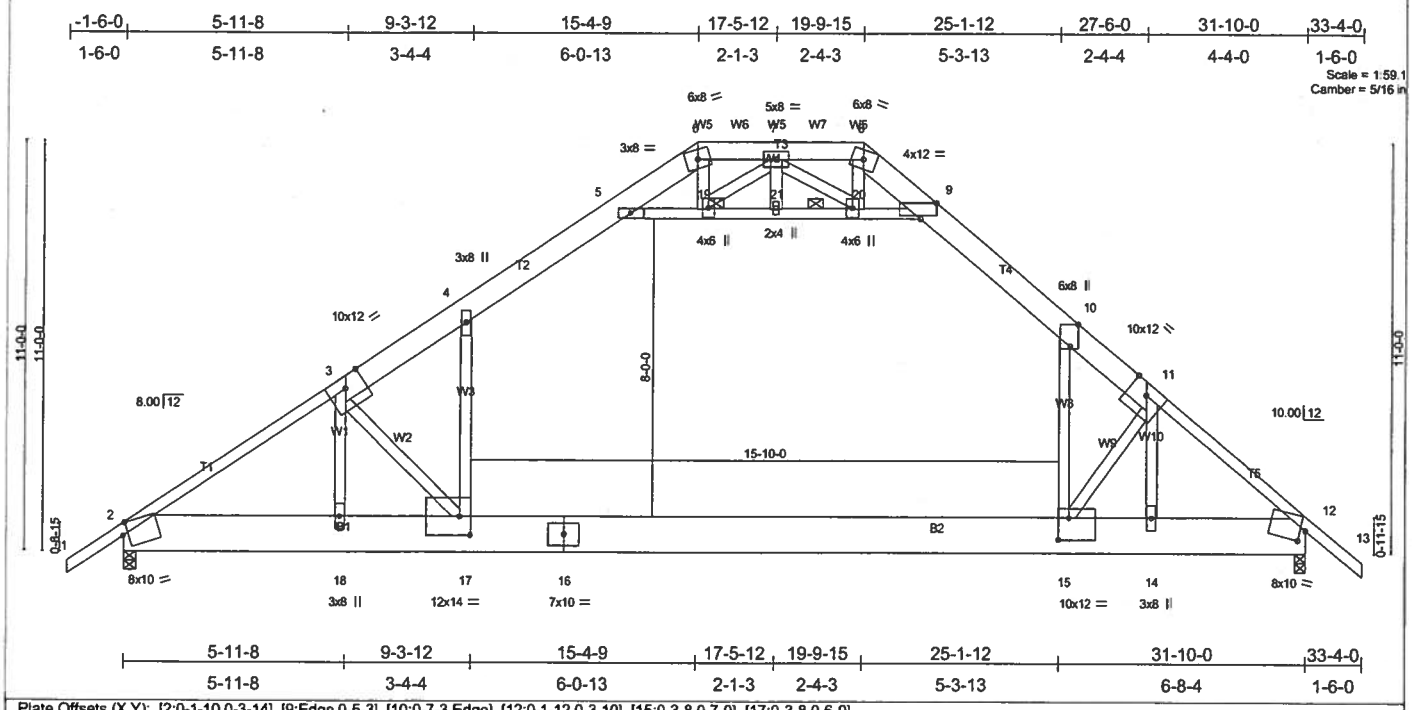


Plate Offsets (X,Y): [2:0-1-10,0-3-14], [9:Edge,0-5-3], [10:0-7-3,Edge], [12:0-1-12,0-3-10], [15:0-3-8,0-7-0], [17:0-3-8,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.49	15-17	>770	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.81	15-17	>465	240		
BCLL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Wind(LL)	0.16	15-17	>999	240	Weight: 317 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D *Except*
T3 2 X 6 SYP No.1D, T2 2 X 8 SYP 2400F 2.0E, T4 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 12 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 5-5-10 oc bracing.
WEBS 1 Row at midpt 9-19
JOINTS 1 Brace at Jt(s): 19

REACTIONS (lb/size) 2=2142/0-4-0, 12=2271/0-3-8
Max Horz 2=-361(load case 3)
Max Uplift2=-321(load case 5), 12=-260(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/43, 2-3=-3114/347, 3-4=-3056/274, 4-5=-2037/365, 5-6=0/709, 6-7=0/938, 7-8=0/1173, 8-9=0/682, 9-10=-2027/367, 10-11=-3488/275, 11-12=-2825/248, 12-13=0/43
BOT CHORD 2-18=-233/2501, 17-18=-226/2513, 16-17=0/2142, 15-16=0/2142, 14-15=-27/2080, 12-14=-29/2031
WEBS 3-18=-504/182, 3-17=-693/409, 4-17=0/1696, 10-15=0/2237, 11-15=-291/377, 11-14=-1399/140, 5-19=-3074/283, 19-21=-2823/259, 20-21=-2823/259, 9-20=-3349/339, 6-19=-67/412, 8-20=-68/585, 7-21=0/12, 7-19=-370/144, 7-20=-646/147

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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 adequate drainage to prevent water ponding.
4) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-19, 19-21, 20-21, 9-20; Wall dead load (5.0psf) on member(s).4-17, 10-15
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 2 and 260 lb uplift at joint 12.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061505

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T12A	ROOF TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Apr 12 13:52:48 2006 Page 1

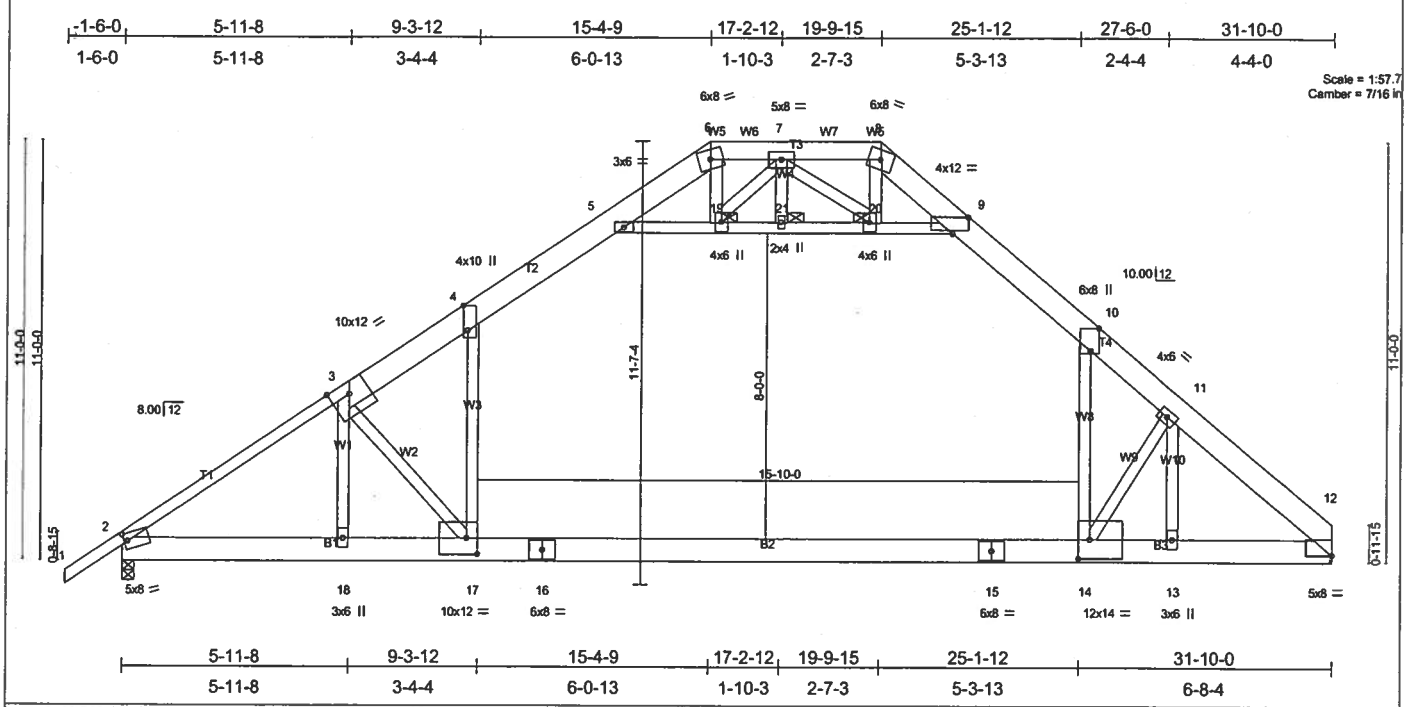


Plate Offsets (X,Y): [2:0-1-3,0-2-8], [4:0-7-13,Edge], [9:Edge,0-5-3], [10:0-7-3,Edge], [12:0-0-2,Edge], [14:0-3-8,0-6-0], [17:0-3-8,0-5-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.69	14-17	>550	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.89	Vert(TL)	-1.11	14-17	>340	240		
BCLL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(TL)	0.05	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Wind(LL)	0.21	14-17	>999	240	Weight: 275 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E *Except* T1 2 X 4 SYP No.1D, T3 2 X 6 SYP No.1D
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3 *Except* W3 2 X 4 SYP No.2, W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-6 oc bracing.
WEBS 1 Row at midpt 19-20
JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS (lb/size) 12=2182/Mechanical, 2=2151/0-4-0
Max Horz 2=377(load case 4)
Max Uplift12=-165(load case 6), 2=-320(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-3134/370, 3-4=-3163/293, 4-5=-2091/370, 5-6=0/510, 6-7=0/667, 7-8=0/913, 8-9=0/503, 9-10=-2109/376, 10-11=-3576/274, 11-12=-2914/309
BOT CHORD 2-18=-269/2484, 17-18=-263/2499, 16-17=0/2226, 15-16=0/2226, 14-15=0/2226, 13-14=-139/2129, 12-13=-137/2145
WEBS 3-18=-596/117, 3-17=-568/439, 4-17=0/1794, 10-14=0/2180, 11-14=-318/472, 11-13=-1430/61, 5-19=-2810/261, 19-21=-2636/248, 20-21=-2636/248, 9-20=-3120/315, 6-19=-124/416, 8-20=-100/577, 7-21=0/10, 7-19=-360/195, 7-20=-661/190

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-19, 19-21, 20-21, 9-20; Wall dead load (5.0psf) on member(s).4-17, 10-14
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-17
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 12 and 320 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061506

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T13	ROOF TRUSS	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:18 2006 Page 1

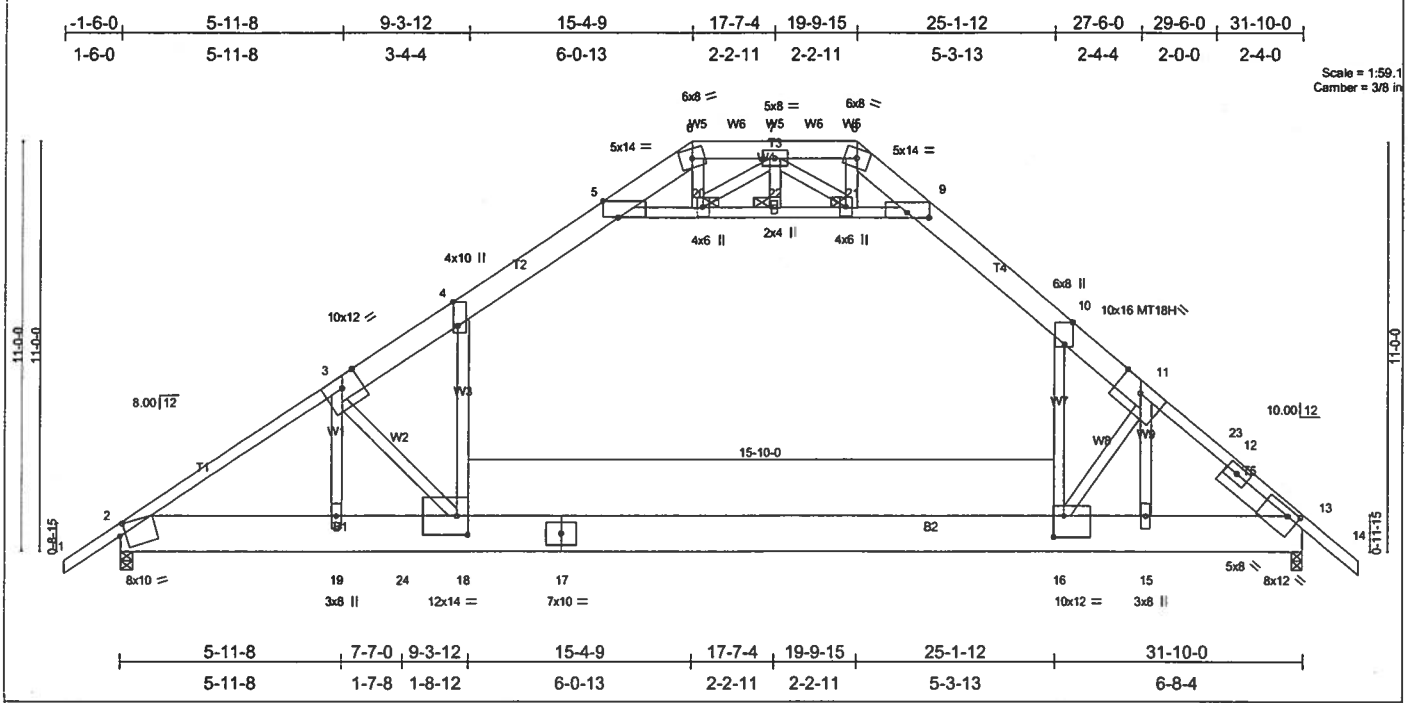


Plate Offsets (X,Y): [2:0-1-13,0-3-10], [4:0-7-13,Edge], [5:Edge,0-5-5], [9:0-7-0,0-1-12], [10:0-7-3,Edge], [13:0-3-8,0-2-4], [16:0-3-8,0-6-12], [18:0-3-8,0-6-0]

LOADING (psf)		SPACING	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.95	Vert(LL)	-0.54	16-18	>700	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.91	16-18	>417	240	MT18H	244/190
BCLL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(TL)	0.04	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Wind(LL)	0.20	16-18	>999	240	Weight: 644 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E *Except*
T1 2 X 4 SYP No.1D, T3 2 X 6 SYP No.1D, T5 2 X 4 SYP No.2
BOT CHORD 2 X 12 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W7 2 X 4 SYP No.2
SLIDER Right 2 X 6 SYP No.1D 2-1-8

BRACING
TOP CHORD 2-0-0 oc purlins (4-4-5 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 8, 20, 21, 22

REACTIONS (lb/size) 2=4911/0-4-0, 13=5837/0-3-8
Max Horz 2=-721(load case 2)
Max Uplift2=-952(load case 4), 13=-1161(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/85, 2-3=-7269/1041, 3-4=-7124/849, 4-5=-4709/837, 5-6=-26/1669, 6-7=-107/2344, 7-8=-162/2773, 8-9=-30/1578, 9-10=-4920/910, 10-11=-8221/1021, 11-23=-6714/1040, 12-23=-6844/1113, 12-13=-6969/1106, 13-14=0/86
BOT CHORD 2-19=-953/5862, 19-24=-932/5885, 18-24=-932/5885, 17-18=-433/5018, 16-17=-433/5018, 15-16=-590/5203, 13-15=-591/5095
WEBS 3-19=-997/359, 3-18=-1590/919, 4-18=-260/4086, 10-16=-138/4762, 11-16=-824/1295, 11-15=-3062/196, 5-20=-7436/1090, 20-22=-6767/977, 21-22=-6767/977, 9-21=-7868/1186, 6-20=-253/991, 8-21=-198/1301, 7-22=0/25, 7-20=-927/424, 7-21=-1363/324

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, 2 X 8 - 2 rows at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 12 - 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-20, 20-22, 21-22, 9-21; Wall dead load (5.0psf) on member(s).4-18, 10-16
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 952 lb uplift at joint 2 and 1161 lb uplift at joint 13.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 103 lb up at 29-6-0 on top chord, and 502 lb down and 313 lb up at 7-7-0 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=-108, 4-5=-132, 5-6=-108, 6-8=-108, 8-9=-108, 14-23=-108, 2-18=-60, 16-18=-220, 13-16=-60, 5-20=-20, 20-21=-20, 9-21=-20
Drag: 4-18=-20, 10-16=-20
Concentrated Loads (lb)
Vert: 23=-165 24=-502(F)
Trapezoidal Loads (plf)
Vert: 9=-249-to-10=-290, 10=-264-to-23=-308

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061507

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T14	ROOF TRUSS	1	2	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:19 2006 Page 1

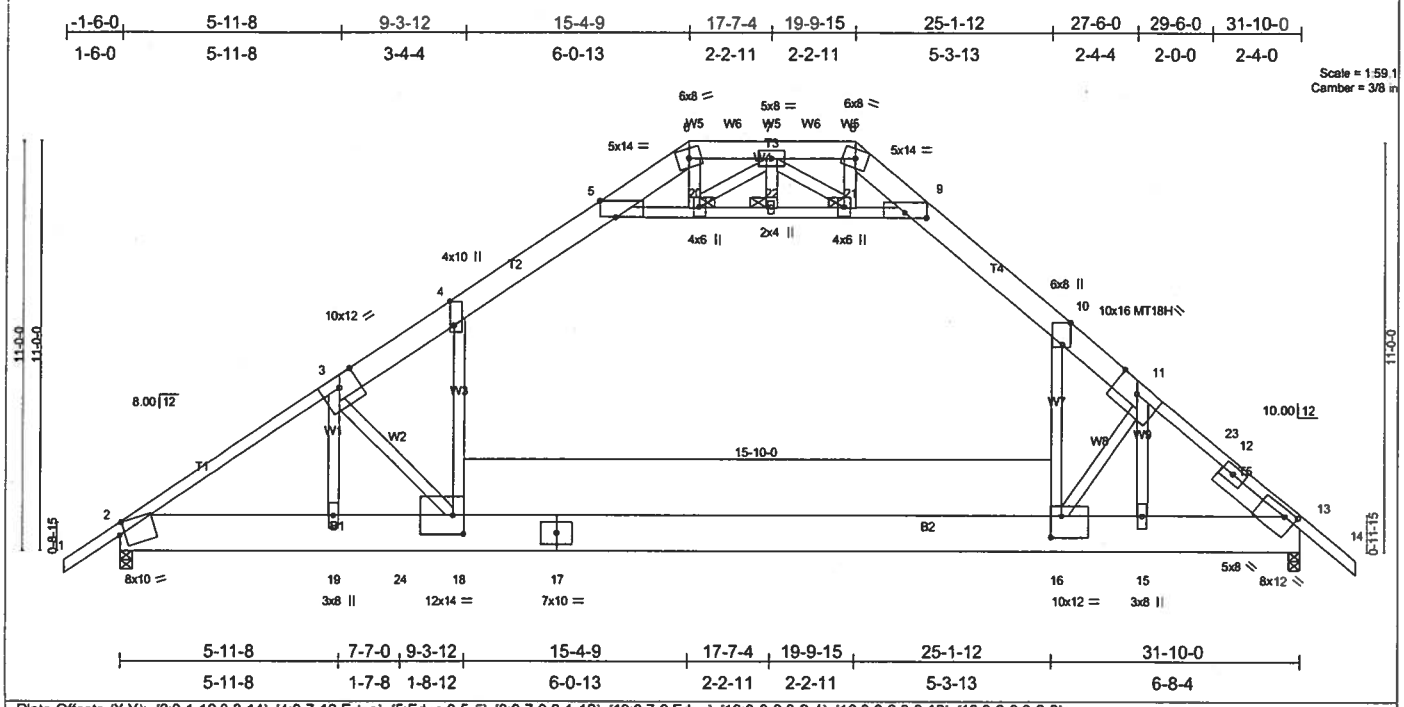


Plate Offsets (X,Y): [2:0-1-10,0-3-14], [4:0-7-13,Edge], [5:Edge,0-5-5], [9:0-7-0,0-1-12], [10:0-7-3,Edge], [13:0-3-8,0-2-4], [16:0-3-8,0-6-12], [18:0-3-8,0-6-0]

LOADING (psf)		SPACING	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.95	Vert(LL)	-0.54	16-18	>700	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.91	16-18	>417	240	MT18H	244/190
BCLL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(TL)	0.04	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Wind(LL)	0.20	16-18	>999	240	Weight: 644 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E *Except*
T1 2 X 4 SYP No.1D, T3 2 X 6 SYP No.1D, T5 2 X 4 SYP No.2
BOT CHORD 2 X 12 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W7 2 X 4 SYP No.2
SLIDER Right 2 X 6 SYP No.1D 2-1-8

BRACING
TOP CHORD 2-0-0 oc purlins (4-4-5 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 8, 20, 21, 22

REACTIONS (lb/size) 2=4911/0-4-0, 13=5837/0-3-8
Max Horz 2=-721(load case 2)
Max Uplift2=-952(load case 4), 13=-1161(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/85, 2-3=-7269/1041, 3-4=-7124/849, 4-5=-4709/837, 5-6=-26/1669, 6-7=-107/2344, 7-8=-162/2773, 8-9=-30/1578, 9-10=-4920/910, 10-11=-8221/1021, 11-23=-6714/1040, 12-23=-6844/1113, 12-13=-6969/1106, 13-14=0/86
BOT CHORD 2-19=-953/5862, 19-24=-932/5885, 18-24=-932/5885, 17-18=-433/5018, 16-17=-433/5018, 15-16=-590/5203, 13-15=-591/5095
WEBS 3-19=-997/359, 3-18=-1590/919, 4-18=-260/4086, 10-16=-138/4762, 11-16=-824/1295, 11-15=-3062/196, 5-20=-7436/1090, 20-22=-6767/977, 21-22=-6767/977, 9-21=-7868/1186, 6-20=-253/991, 8-21=-198/1301, 7-22=0/25, 7-20=-927/424, 7-21=-1363/324

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, 2 X 8 - 2 rows at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 12 - 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-20, 20-22, 21-22, 9-21; Wall dead load (5.0psf) on member(s).4-18, 10-16
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 952 lb uplift at joint 2 and 1161 lb uplift at joint 13.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 103 lb up at 29-6-0 on top chord, and 502 lb down and 313 lb up at 7-7-0 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=-108, 4-5=-132, 5-6=-108, 6-8=-108, 8-9=-108, 14-23=-108, 2-18=-60, 16-18=-220, 13-16=-60, 5-20=-20, 20-21=-20, 9-21=-20
Drag: 4-18=-20, 10-16=-20
Concentrated Loads (lb)
Vert: 23=-165 24=-502(F)
Trapezoidal Loads (plf)
Vert: 9=-249-to-10=-290, 10=-264-to-23=-308

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061508

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T15	ROOF TRUSS	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:20 2006 Page 1

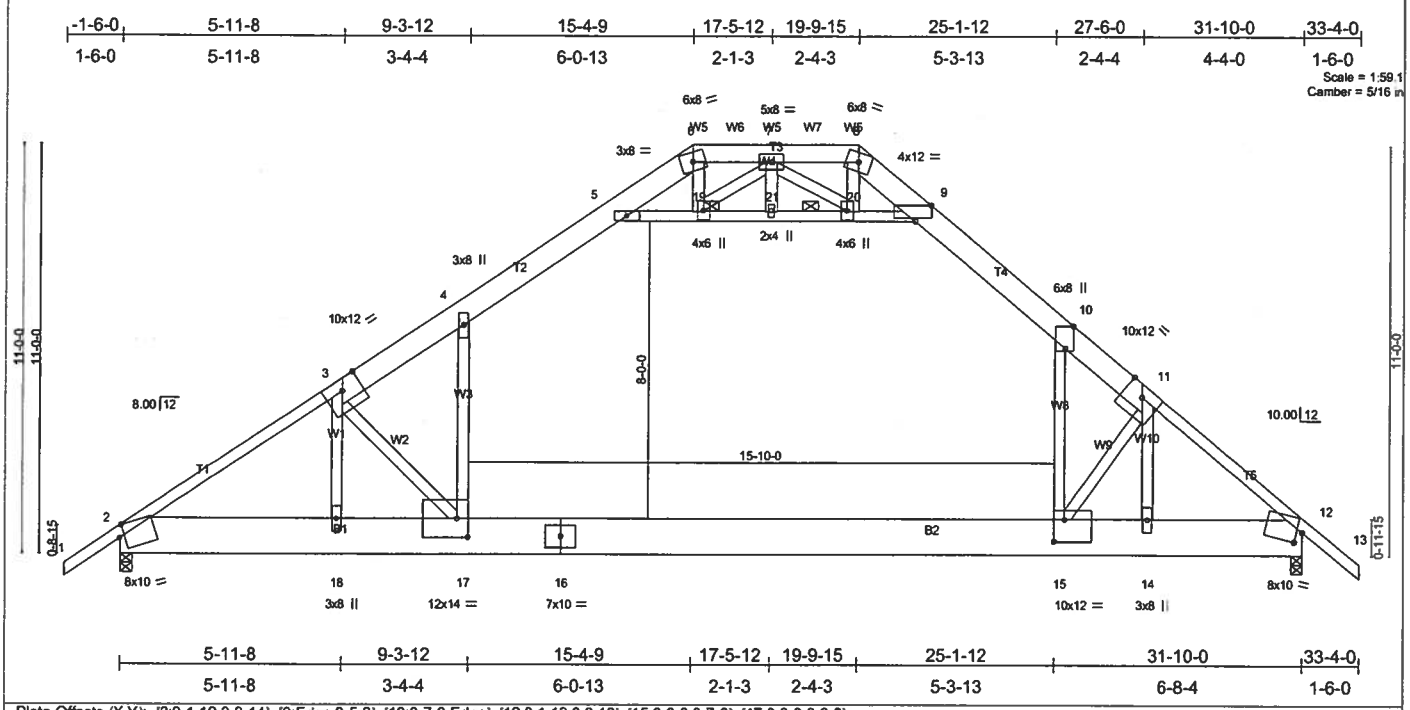


Plate Offsets (X,Y): [2:0-1-10,0-3-14], [9:Edge,0-5-3], [10:0-7-3,Edge], [12:0-1-12,0-3-10], [15:0-3-8,0-7-0], [17:0-3-8,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.49	15-17	>770	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.91	Vert(TL)	-0.81	15-17	>465	240		
BCLL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Wind(LL)	0.16	15-17	>999	240	Weight: 317 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D *Except*
T3 2 X 6 SYP No.1D, T2 2 X 8 SYP 2400F 2.0E, T4 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 12 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 5-5-10 oc bracing.
WEBS 1 Row at midpt 9-19
JOINTS 1 Brace at Jt(s): 19

REACTIONS (lb/size) 2=2142/0-4-0, 12=2271/0-3-8
Max Horz 2=-361(load case 3)
Max Uplift2=-321(load case 5), 12=-260(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/43, 2-3=-3114/347, 3-4=-3056/274, 4-5=-2037/365, 5-6=0/709, 6-7=0/938, 7-8=0/1173, 8-9=0/682, 9-10=-2027/367, 10-11=-3488/275, 11-12=-2825/248, 12-13=0/43
BOT CHORD 2-18=-233/2501, 17-18=-226/2513, 16-17=0/2142, 15-16=0/2142, 14-15=-27/2080, 12-14=-29/2031
WEBS 3-18=-504/182, 3-17=-693/409, 4-17=0/1696, 10-15=0/2237, 11-15=-291/377, 11-14=-1399/140, 5-19=-3074/283, 19-21=-2823/259, 20-21=-2823/259, 9-20=-3349/339, 6-19=-67/412, 8-20=-68/585, 7-21=0/12, 7-19=-370/144, 7-20=-646/147

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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 adequate drainage to prevent water ponding.
4) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-19, 19-21, 20-21, 9-20; Wall dead load (5.0psf) on member(s).4-17, 10-15
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 2 and 260 lb uplift at joint 12.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061509

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T16	ROOF TRUSS	1	1	Job Reference (optional)

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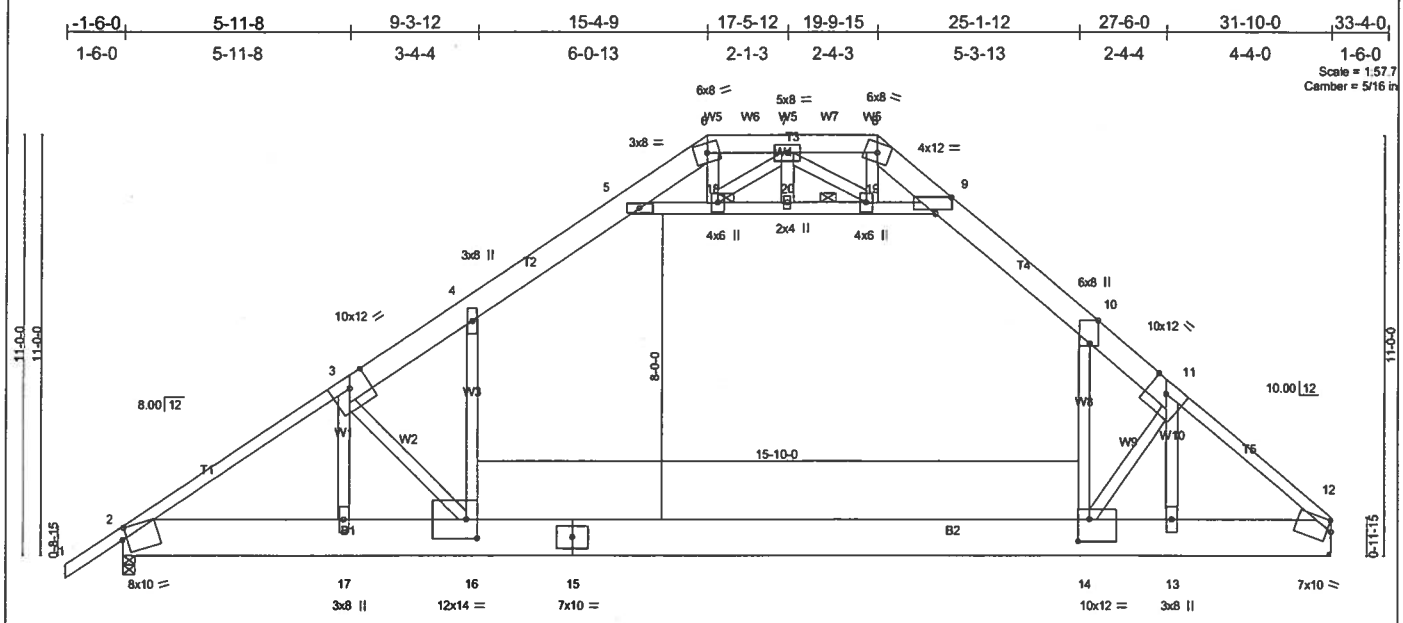


Plate Offsets (X,Y): [2:0-1-5,0-3-9], [9:Edge,0-5-3], [10:0-7-3,Edge], [14:0-3-8,0-7-0], [16:0-3-8,0-6-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.77	Vert(LL)	-0.49	14-16	>767	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.90	Vert(TL)	-0.82	14-16	>463	240		
BCLL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(TL)	0.04	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Wind(LL)	0.16	14-16	>999	240	Weight: 314 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.1D *Except*
T3 2 X 6 SYP No.1D, T2 2 X 8 SYP 2400F 2.0E, T4 2 X 8 SYP 2400F 2.0E
BOT CHORD 2 X 12 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2, W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 5-7-7 oc bracing.
WEBS 1 Row at midpt 9-18
JOINTS 1 Brace at Jt(s): 18

REACTIONS (lb/size) 12=2181/Mechanical, 2=2150/0-4-0
Max Horz 2=375(load case 4)
Max Uplift12=-166(load case 6), 2=-322(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/43, 2-3=-3126/352, 3-4=-3078/285, 4-5=-2053/372, 5-6=0/716, 6-7=0/947, 7-8=0/1181, 8-9=0/687, 9-10=-2039/373, 10-11=-3524/294, 11-12=-2878/287
BOT CHORD 2-17=-257/2511, 16-17=-251/2523, 15-16=-4/2159, 14-15=-4/2159, 13-14=-118/2135, 12-13=-120/2088
WEBS 3-17=-519/184, 3-16=-686/407, 4-16=0/1710, 10-14=0/2275, 11-14=-289/386, 11-13=-1381/135, 5-18=-3108/300, 18-20=-2852/273, 19-20=-2852/273, 9-19=-3378/353, 6-18=-67/418, 8-19=-68/586, 7-20=0/12, 7-18=-377/145, 7-19=-647/147

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-18, 18-20, 19-20, 9-19; Wall dead load (5.0psf) on member(s).4-16, 10-14
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 12 and 322 lb uplift at joint 2.
8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

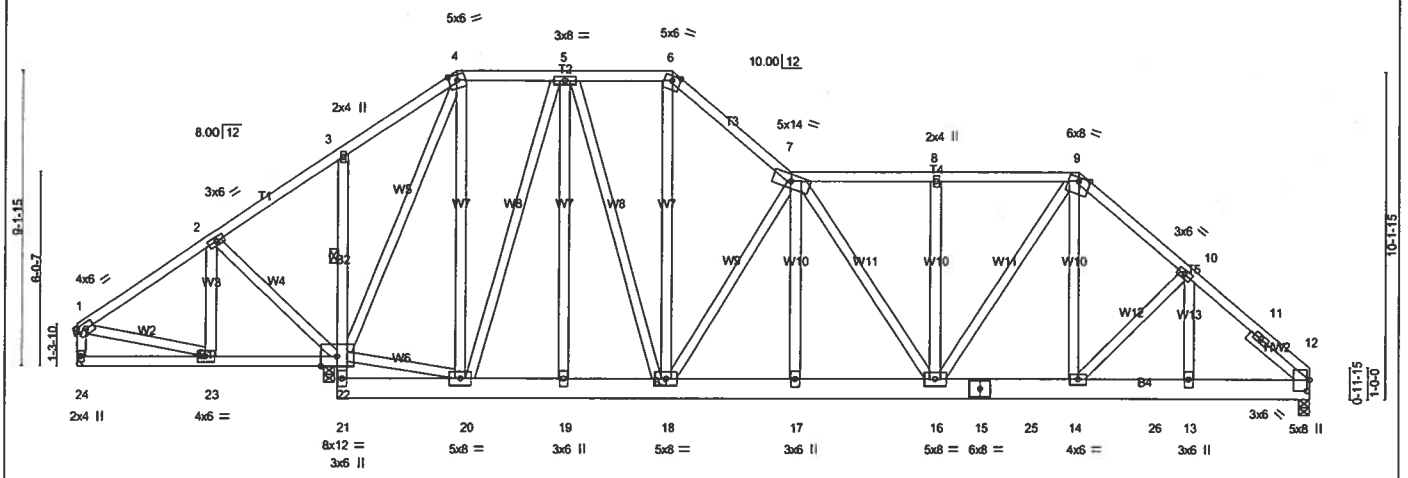
Dwg.#0418061510

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T17	SPECIAL	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:21 2006 Page 1

4-2-12	8-2-0	11-9-8	15-1-12	18-6-0	22-3-0	26-9-0	31-3-0	34-8-12	38-6-0
4-2-12	3-11-4	3-7-8	3-4-4	3-4-4	3-9-0	4-6-0	4-6-0	3-5-12	3-9-4

Scale = 1:68.4



34-8-12

4-2-12	7-11-0	8-2-0	11-9-8	15-1-12	18-6-0	22-3-0	26-9-0	29-9-0	31-3-0	33-7-8	38-6-0
4-2-12	3-8-4	0-3-0	3-7-8	3-4-4	3-4-4	3-9-0	4-6-0	3-0-0	1-6-0	2-4-8	1-1-4	3-9-4

Plate Offsets (X,Y): [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [5:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [12:0-4-2,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.30	Vert(LL)	-0.06	17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.09	17	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.58	Horz(TL)	0.01	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 733 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D *Except*
B1 2 X 4 SYP No.2, B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 4 SYP No.3 2-4-6

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6, 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 22-23,20-21.
1 Row at midpt 3-22

REACTIONS (lb/size) 12=2448/0-4-0, 24=90/Mechanical, 22=2304/0-4-0
Max Horz 24=-329(load case 2)
Max Uplift12=-911(load case 5), 24=-52(load case 9), 22=-782(load case 3)
Max Grav 12=2448(load case 1), 24=143(load case 8), 22=2304(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-185/181, 2-3=-215/414, 3-4=-119/397, 4-5=-389/284, 5-6=-1126/567, 6-7=-1513/649, 7-8=-2334/977, 8-9=-2334/977, 9-10=-2865/1162, 10-11=-3122/1206, 11-12=-3181/1184, 1-24=-109/112
BOT CHORD 23-24=-295/341, 22-23=-137/355, 21-22=-2/78, 3-22=-213/226, 20-21=-73/53, 19-20=-318/786, 18-19=-318/786, 17-18=-719/2061, 16-17=-718/2062, 15-16=-809/2216, 15-25=-809/2216, 14-25=-809/2216, 14-26=-785/2291, 13-26=-785/2291, 12-13=-785/2291
WEBS 2-23=-25/163, 2-22=-322/226, 20-22=-178/433, 4-22=-1750/568, 4-20=-461/1258, 5-20=-1334/504, 5-19=-3/96, 5-18=-440/1082, 6-18=-275/709, 7-18=-1855/837, 7-17=0/53, 7-16=-256/483, 8-16=-217/228, 9-16=-94/209, 9-14=-594/1371, 10-14=-151/183, 10-13=-100/296, 1-23=-186/209

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 4 - 1 row at 0-9-0 oc, 2 X 8 - 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
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 911 lb uplift at joint 12, 52 lb uplift at joint 24 and 782 lb uplift at joint 22.
8) Girder carries tie-in span(s): 7-3-0 from 29-9-0 to 33-7-8
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 559 lb down and 265 lb up at 33-7-8, and 654 lb down and 310 lb up at 29-9-0 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, 6-7=-54, 7-9=-54, 9-12=-54, 22-24=-30, 21-25=-30, 25-26=-135(F=-105), 12-26=-30
Concentrated Loads (lb)
Vert: 25=-654(F) 26=-559(F)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

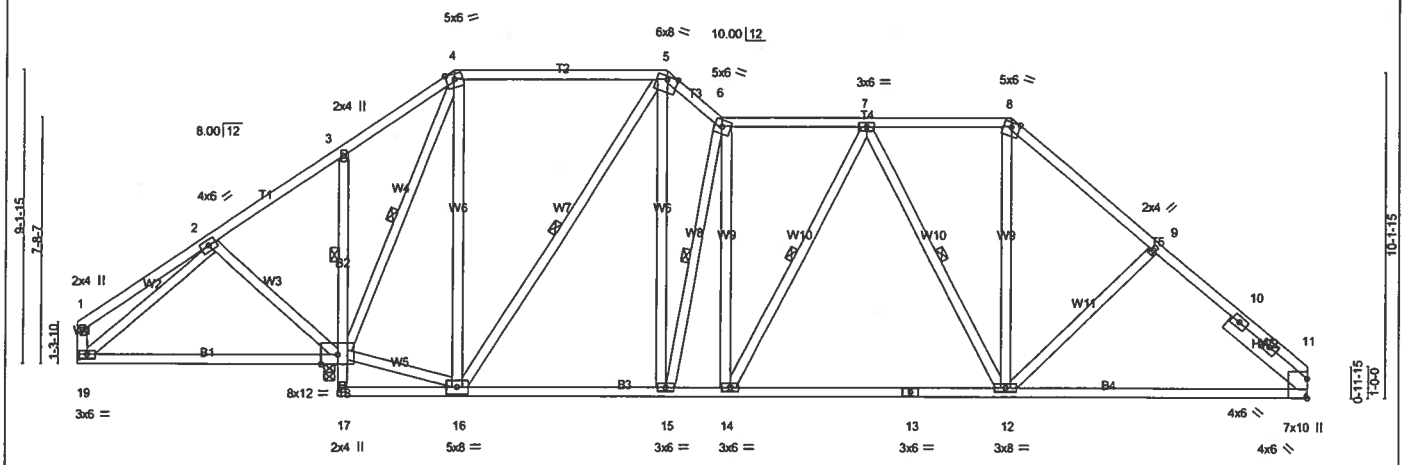
Dwg.#0418061511

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T18	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:22 2006 Page 1

4-2-12	8-2-0	11-9-8	18-6-0	20-3-0	24-9-0	29-3-0	33-8-12	38-6-0
4-2-12	3-11-4	3-7-8	6-8-8	1-9-0	4-6-0	4-6-0	4-5-12	4-9-4

Scale = 1:68.7
Camber = 1/8 in



7-11-0	8-2-0	11-9-8	18-6-0	20-3-0	29-3-0	38-6-0
7-11-0	0-3-0	3-7-8	6-8-8	1-9-0	9-0-0	9-3-0

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.16	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.27	12-14	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.03	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 296 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.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 6 SYP No.1D 3-2-14

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-1 max.): 4-5, 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 18-19,16-17.
1 Row at midpt 3-18
WEBS 1 Row at midpt 4-18, 5-16, 6-15, 7-14, 7-12

REACTIONS (lb/size) 11=1233/Mechanical, 18=1777/0-4-0, 19=212/Mechanical
Max Horz 19=-334(load case 3)
Max Uplift11=-452(load case 6), 18=-583(load case 4), 19=-52(load case 6)
Max Grav 11=1233(load case 1), 18=1777(load case 1), 19=262(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-283/92, 2-3=-155/213, 3-4=-82/227, 4-5=-337/325, 5-6=-1023/586, 6-7=-1028/550, 7-8=-976/540, 8-9=-1327/595, 9-10=-1423/595, 10-11=-1509/574, 1-19=-228/113
BOT CHORD 18-19=-153/272, 17-18=0/28, 3-18=-210/214, 16-17=-162/0, 15-16=-293/825, 14-15=-333/1024, 13-14=-345/1069, 12-13=-345/1069, 11-12=-311/1044
WEBS 2-18=-231/233, 16-18=-144/504, 4-18=-1251/450, 4-16=-299/787, 5-16=-886/353, 5-15=-454/1056, 6-15=-977/478, 6-14=-38/256, 7-14=-92/90, 7-12=-204/249, 8-12=-192/537, 9-12=-109/224, 2-19=-155/244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 452 lb uplift at joint 11, 583 lb uplift at joint 18 and 52 lb uplift at joint 19.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

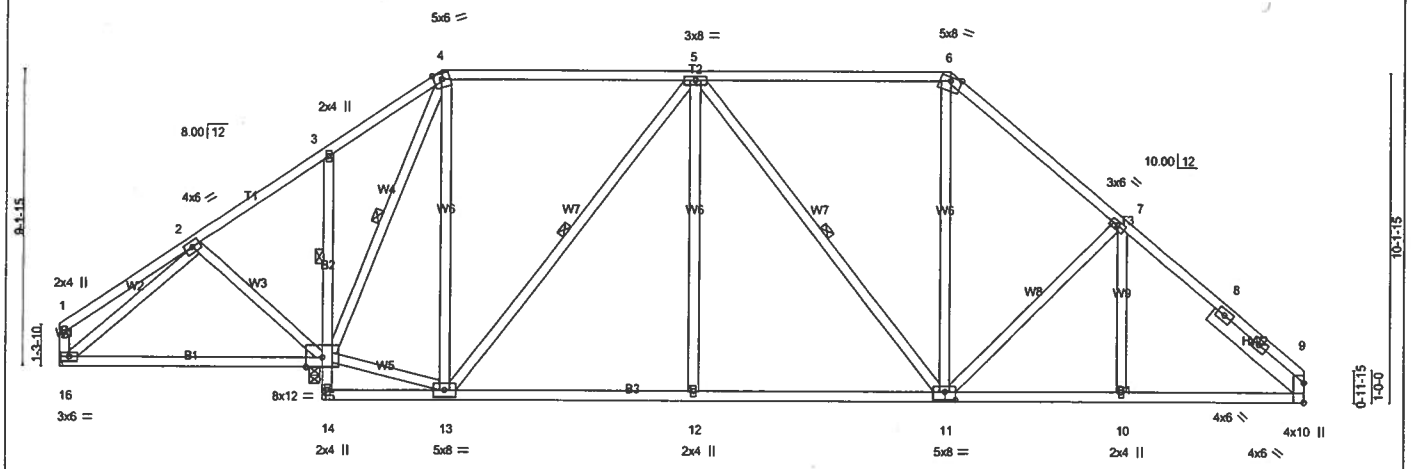
Dwg.#0418061512

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T19	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:23 2006 Page 1

4-2-12	8-2-0	11-9-8	19-7-12	27-6-0	32-10-4	38-6-0
4-2-12	3-11-4	3-7-8	7-10-4	7-10-4	5-4-4	5-7-12

Scale = 1:67.9
Camber = 1/16 in



7-11-0	8-2-0	11-9-8	19-7-12	27-6-0	32-10-4	38-6-0
7-11-0	0-3-0	3-7-8	7-10-4	7-10-4	5-4-4	5-7-12

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.10	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.50	Vert(TL)	-0.17	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 276 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.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 6 SYP No.1D 3-9-7

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14.
1 Row at midpt 3-15
WEBS 1 Row at midpt 4-15, 5-13, 5-11

REACTIONS (lb/size) 9=1256/Mechanical, 15=1665/0-4-0, 16=300/Mechanical
Max Horz 16=-334(load case 3)
Max Uplift9=-385(load case 6), 15=-571(load case 4), 16=-109(load case 6)
Max Grav 9=1256(load case 1), 15=1665(load case 1), 16=309(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-282/95, 2-3=-105/191, 3-4=-39/223, 4-5=-407/372, 5-6=-924/563, 6-7=-1268/614, 7-8=-1485/595, 8-9=-1588/572, 1-16=-226/115
BOT CHORD 15-16=-190/229, 14-15=0/23, 3-15=-151/206, 13-14=-156/0, 12-13=-361/934, 11-12=-361/934, 10-11=-304/1087, 9-10=-304/1087
WEBS 2-15=-211/225, 13-15=-178/571, 4-15=-1154/405, 4-13=-268/725, 5-13=-863/374, 5-12=0/244, 5-11=-132/195, 6-11=-137/384, 7-11=-235/281, 7-10=0/141, 2-16=-109/196

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 9, 571 lb uplift at joint 15 and 109 lb uplift at joint 16.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061513

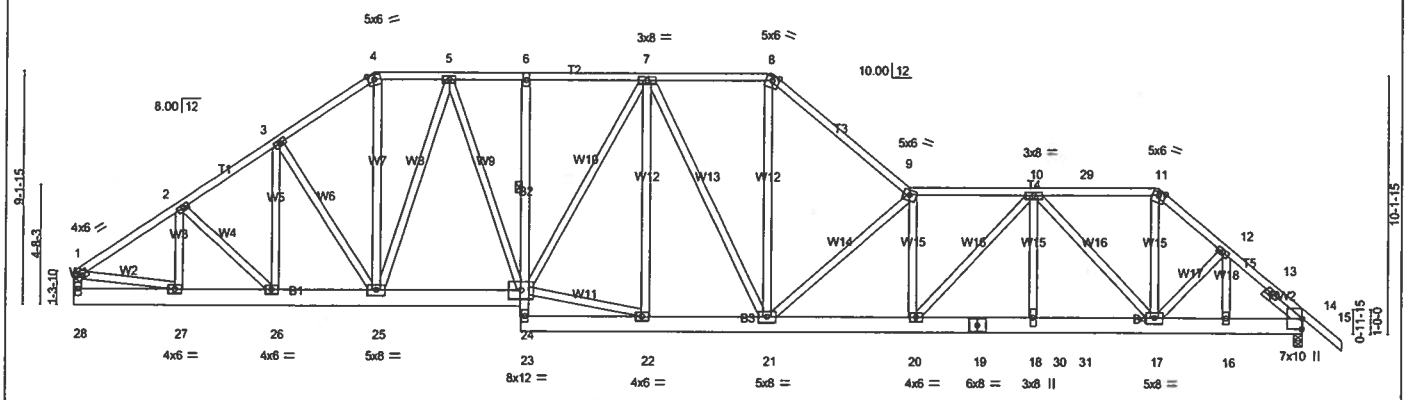
Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T20	SPECIAL	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:24 2006 Page 1

4-1-8 | 7-11-8 | 11-9-8 | 14-8-4 | 17-7-0 | 22-6-8 | 27-6-0 | 32-10-8 | 37-9-8 | 42-8-8 | 45-4-8 | 48-4-049-10-0

4-1-8 | 3-10-0 | 3-10-0 | 2-10-12 | 2-10-12 | 4-11-8 | 4-11-8 | 5-4-8 | 4-11-0 | 4-11-0 | 2-8-0 | 2-11-8 | 1-6-0

Scale = 1:86.4
Camber = 1/8 in



4-1-8 | 7-11-8 | 11-9-8 | 17-7-0 | 22-6-8 | 27-6-0 | 32-10-8 | 37-9-8 | 38-9-0 | 42-8-8 | 45-4-8 | 48-4-0

4-1-8 | 3-10-0 | 3-10-0 | 5-9-8 | 4-11-8 | 4-11-8 | 5-4-8 | 4-11-0 | 0-11-8 | 3-11-8 | 2-8-0 | 2-11-8

Plate Offsets (X,Y): [14:0-5-2,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.23	20-21	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.37	20-21	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(TL)	0.07	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 898 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D *Except*
B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 4 SYP No.3 1-10-1

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-6 max.): 4-8, 9-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
1 Row at midpt 6-24

REACTIONS (lb/size) 28=2436/Mechanical, 14=3954/0-4-0
Max Horz 28=-348(load case 2)
Max Uplift28=-773(load case 3), 14=-1609(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3053/998, 2-3=-3280/1157, 3-4=-3228/1221, 4-5=-2667/1059, 5-6=-3387/1339, 6-7=-3388/1340, 7-8=-3651/1422, 8-9=-4779/1772, 9-10=-6597/2528, 10-29=-4135/1741, 11-29=-4136/1741, 11-12=-5242/2156, 12-13=-4737/1884, 13-14=-4769/1862, 14-15=0/36, 1-28=-2263/744
BOT CHORD 27-28=-402/406, 26-27=-1042/2481, 25-26=-1096/2682, 24-25=-1232/3023, 23-24=-21/145, 6-24=-234/186, 22-23=-308/750, 21-22=-1365/3456, 20-21=-2536/6609, 19-20=-2570/6230, 18-19=-2570/6230, 18-30=-2570/6230, 30-31=-2570/6230, 17-31=-2570/6230, 16-17=-1347/3434, 14-16=-1347/3434
WEBS 2-27=-511/224, 2-26=-206/329, 3-26=-151/167, 3-25=-193/177, 4-25=-542/1523, 5-25=-1265/666, 5-24=-540/1165, 22-24=-1080/2764, 7-24=-237/231, 7-22=-501/288, 7-21=-302/499, 8-21=-1053/2677, 9-21=-4125/1702, 9-20=-453/124, 10-20=-18/544, 10-18=-676/1650, 10-17=-3111/1251, 11-17=-1100/2916, 12-17=-508/901, 12-16=-788/358, 1-27=-657/2129

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-7-0 oc, 2 X 4 - 1 row 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 3x6 MT20 unless otherwise indicated.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 773 lb uplift at joint 28 and 1609 lb uplift at joint 14.
9) Girder carries hip end with 5-7-8 right side setback, 39-9-0 left side setback, and 5-7-8 end setback.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1730 lb down and 821 lb up at 38-9-0, and 325 lb down and 247 lb up at 42-8-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-8=-54, 8-9=-54, 9-29=-54, 11-29=-100(F=-46), 11-15=-54, 24-28=-30, 23-31=-30, 17-31=-55(F=-25), 14-17=-30
Concentrated Loads (lb)
Vert: 17=-325(F) 30=-1730(F)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

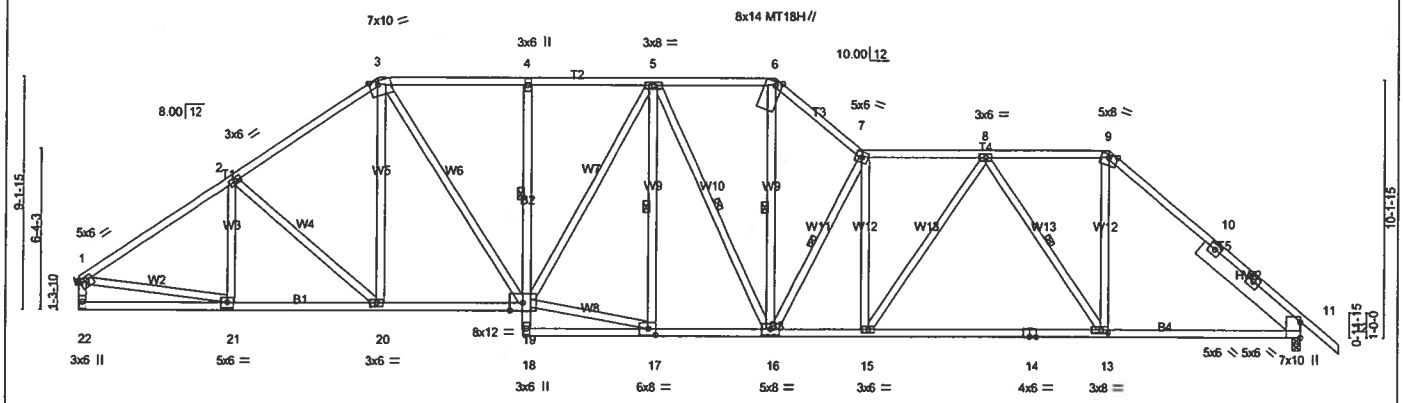
Dwg.#0418061514

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T21	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:25 2006 Page 1

6-0-8	11-9-8	17-7-0	22-6-8	27-6-0	30-10-8	35-9-8	40-8-8	48-4-0	49-10-0
6-0-8	5-9-0	5-9-8	4-11-8	4-11-8	3-4-8	4-11-0	4-11-0	7-7-8	1-6-0

Scale = 1:86.6
Camber = 1/4 in



6-0-8	11-9-8	17-7-0	27-6-0	30-10-8	40-8-8	48-4-0
6-0-8	5-9-0	5-9-8	9-11-0	3-4-8	9-10-0	7-7-8

Plate Offsets (X,Y): [1:Edge,0-1-12], [3:0-4-0,Edge], [6:0-1-13,Edge], [13:0-3-8,0-1-8], [17:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.39	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.86	Vert(TL)	-0.64	13-15	>907	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(TL)	0.16	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 363 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.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 8 SYP No.1D 5-2-1

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-7 max.): 3-6, 7-9.
BOT CHORD Rigid ceiling directly applied or 6-1-13 oc bracing. Except:
1 Row at midpt 4-19
WEBS 1 Row at midpt 5-16, 6-16, 7-16, 8-13, 5-17

REACTIONS (lb/size) 22=2023/Mechanical, 11=2106/0-4-0
Max Horz 22=-348(load case 3)
Max Uplift22=-579(load case 4), 11=-731(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2647/994, 2-3=-2543/1067, 3-4=-2561/1155, 4-5=-2552/1154, 5-6=-2442/1139, 6-7=-3182/1392, 7-8=-3208/1352, 8-9=-1898/871, 9-10=-2532/993, 10-11=-2656/966, 11-12=0/30, 1-22=-1920/753
BOT CHORD 21-22=-360/356, 20-21=-857/2125, 19-20=-810/2050, 18-19=0/83, 4-19=-305/273, 17-18=-69/150, 16-17=-911/2472, 15-16=-1057/3220, 14-15=-892/2651, 13-14=-892/2651, 11-13=-520/1868
WEBS 2-21=-183/154, 2-20=-196/212, 3-20=-107/292, 3-19=-473/1003, 17-19=-859/2369, 5-19=-145/278, 5-16=-279/161, 6-16=-719/1742, 7-16=-1798/789, 7-15=-584/334, 8-15=-336/994, 8-13=-1347/649, 9-13=-465/1383, 1-21=-591/1865, 5-17=-322/210

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 579 lb uplift at joint 22 and 731 lb uplift at joint 11.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

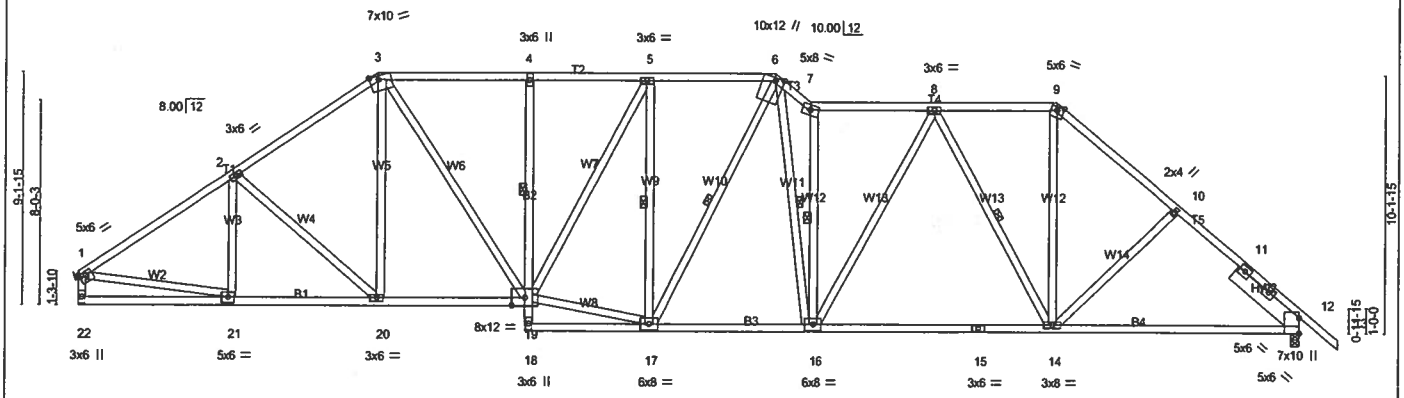
Dwg.#0418061515

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T22	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:26 2006 Page 1

6-0-8	11-9-8	17-7-0	22-6-8	27-6-0	28-10-8	33-9-8	38-8-8	43-4-8	48-4-0	49-10-0
6-0-8	5-9-0	5-9-8	4-11-8	4-11-8	1-4-8	4-11-0	4-11-0	4-8-0	4-11-8	1-6-0

Scale = 1:86.6
Camber = 1/4 in



6-0-8	11-9-8	17-7-0	22-6-8	28-10-8	38-8-8	48-4-0
6-0-8	5-9-0	5-9-8	4-11-8	6-4-0	9-10-0	9-7-8

Plate Offsets (X,Y): [1:Edge,0-1-12], [3:0-4-0,Edge], [6:0-1-8,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	0.68	Vert(LL)	-0.38	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-0.62	14-16	>932	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(TL)	0.15	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 365 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.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 8 SYP No.1D 3-4-5

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-5 max.): 3-6, 7-9.
BOT CHORD Rigid ceiling directly applied or 6-7-6 oc bracing. Except:
1 Row at midpt 4-19
WEBS 1 Row at midpt 5-17, 6-17, 6-16, 7-16, 8-14

REACTIONS (lb/size) 22=2023/Mechanical, 12=2106/0-4-0
Max Horz 22=-347(load case 3)
Max Uplift22=-602(load case 4), 12=-731(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2648/997, 2-3=-2544/1069, 3-4=-2561/1158, 4-5=-2553/1156, 5-6=-2469/1152, 6-7=-3446/1561, 7-8=-2692/1199, 8-9=-1848/873, 9-10=-2421/1019, 10-11=-2525/1011, 11-12=-2617/998, 12-13=0/30, 1-22=-1920/754
BOT CHORD 21-22=-362/356, 20-21=-886/2126, 19-20=-842/2050, 18-19=0/79, 4-19=-304/270, 17-18=-73/142, 16-17=-911/2447, 15-16=-839/2351, 14-15=-839/2351, 12-14=-564/1831
WEBS 2-21=-183/155, 2-20=-196/212, 3-20=-107/293, 3-19=-473/1003, 17-19=-912/2376, 5-19=-135/286, 5-17=-487/331, 6-17=-121/258, 6-16=-805/1851, 7-16=-2202/1044, 8-16=-285/756, 8-14=-1050/588, 9-14=-448/1216, 10-14=-148/198, 1-21=-592/1865

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 602 lb uplift at joint 22 and 731 lb uplift at joint 12.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

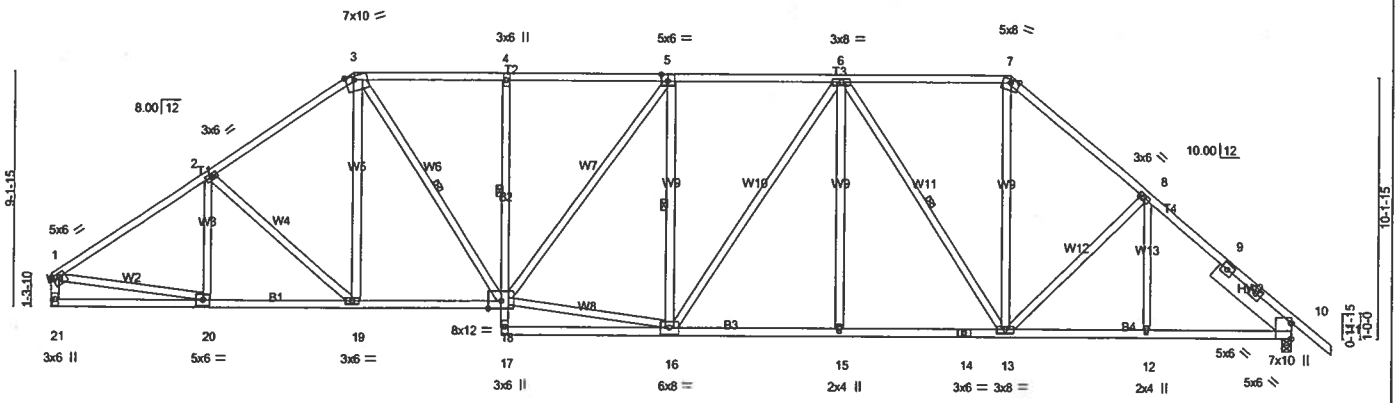
Dwg.#0418061516

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T23	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:27 2006 Page 1

6-0-8	11-9-8	17-7-0	24-2-0	30-9-0	37-4-0	42-8-4	48-4-0	49-10-0
6-0-8	5-9-0	5-9-8	6-7-0	6-7-0	6-7-0	5-4-4	5-7-12	1-6-0

Scale = 1:85.5
Camber = 1/8 in



6-0-8	11-9-8	17-7-0	24-2-0	30-9-0	37-4-0	42-8-4	48-4-0
6-0-8	5-9-0	5-9-8	6-7-0	6-7-0	6-7-0	5-4-4	5-7-12

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.67	Vert(LL)	-0.24	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-0.39	15-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(TL)	0.15	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 357 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.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 8 SYP No.1D 3-9-7

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-4 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 6-7-14 oc bracing. Except:
1 Row at midpt 4-18
WEBS 1 Row at midpt 3-18, 5-16, 6-13

REACTIONS (lb/size) 21=2023/Mechanical, 10=2106/0-4-0
Max Horz 21=-348(load case 3)
Max Uplift21=-619(load case 4), 10=-645(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2648/998, 2-3=-2544/1071, 3-4=-2562/1161, 4-5=-2555/1161, 5-6=-2494/1164, 6-7=-1786/888, 7-8=-2350/1029, 8-9=-2561/994, 9-10=-2665/978, 10-11=0/30, 1-21=-1920/755
BOT CHORD 20-21=-362/353, 19-20=-904/2126, 18-19=-863/2050, 17-18=0/104, 4-18=-331/297, 16-17=-70/206, 15-16=-876/2315, 14-15=-876/2315, 13-14=-876/2315, 12-13=-550/1864, 10-12=-550/1864
WEBS 2-20=-184/155, 2-19=-210/212, 3-19=-108/283, 3-18=-566/1004, 16-18=-948/2322, 5-18=-101/139, 5-16=-466/379, 6-16=-225/378, 6-15=0/196, 6-13=-1042/565, 7-13=-415/1099, 8-13=-182/247, 8-12=0/120, 1-20=-594/1866

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 619 lb uplift at joint 21 and 645 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

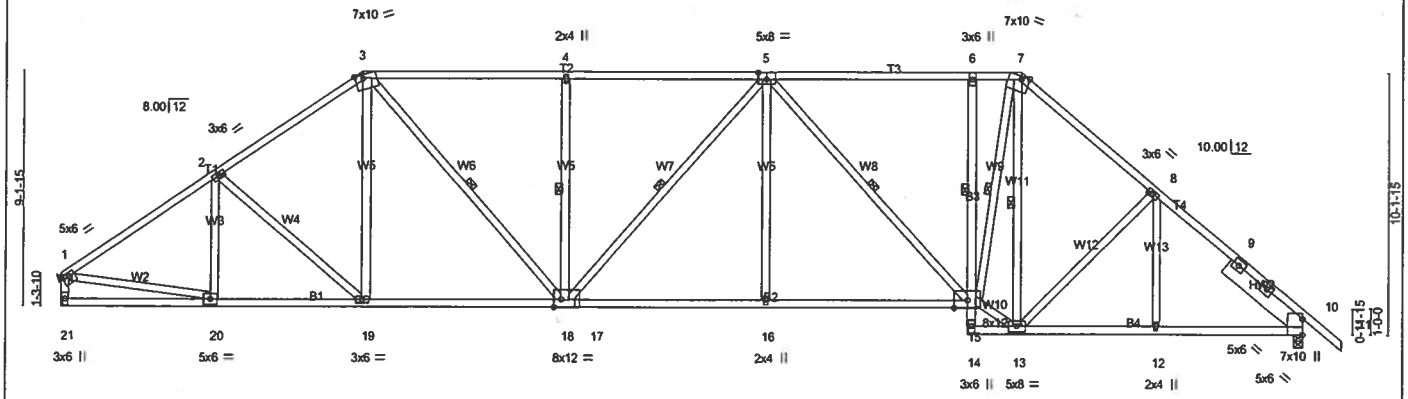
Dwg.#0418061517

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T24	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:28 2006 Page 1

6-0-8	11-9-8	19-7-5	27-5-3	35-3-0	37-4-0	42-8-4	48-4-0	49-10-0
6-0-8	5-9-0	7-9-13	7-9-13	7-9-13	2-1-0	5-4-4	5-7-12	1-6-0

Scale = 1:85.5
Camber = 3/16 in



6-0-8	11-9-8	19-7-5	27-5-3	35-3-0	37-4-0	42-8-4	48-4-0
6-0-8	5-9-0	7-9-13	7-9-13	7-9-13	2-1-0	5-4-4	5-7-12

Plate Offsets (X,Y): [1:Edge,0-1-12], [3:0-4-0,Edge], [5:0-4-0,0-3-0], [7:0-3-13,Edge], [17:0-3-4,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	0.70	Vert(LL)	-0.31	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-0.50	15-16	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.20	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 347 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3
SLIDER Right 2 X 8 SYP No.1D 3-9-7

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-4 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 6-15
WEBS 1 Row at midpt 3-18, 4-18, 5-18, 5-15, 7-15, 7-13

REACTIONS (lb/size) 21=2023/Mechanical, 10=2106/0-4-0
Max Horz 21=-347(load case 3)
Max Uplift21=-619(load case 4), 10=-645(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2644/997, 2-3=-2546/1070, 3-4=-2691/1210, 4-5=-2691/1210, 5-6=-2189/1012, 6-7=-2166/1002, 7-8=-2353/1032, 8-9=-2560/994, 9-10=-2665/977, 10-11=0/30, 1-21=-1919/756
BOT CHORD 20-21=-367/346, 19-20=-903/2121, 18-19=-868/2058, 17-18=-1078/2747, 16-17=-1078/2747, 15-16=-1078/2747, 14-15=-37/3, 6-15=-267/296, 13-14=-102/9, 12-13=-550/1866, 10-12=-550/1866
WEBS 2-20=-185/151, 2-19=-222/209, 3-19=-97/278, 3-18=-580/1043, 4-18=-431/377, 5-18=-157/143, 5-16=0/247, 5-15=-901/487, 13-15=-513/1997, 7-15=-900/1933, 7-13=-683/381, 8-13=-168/247, 8-12=0/114, 1-20=-589/1853

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 619 lb uplift at joint 21 and 645 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

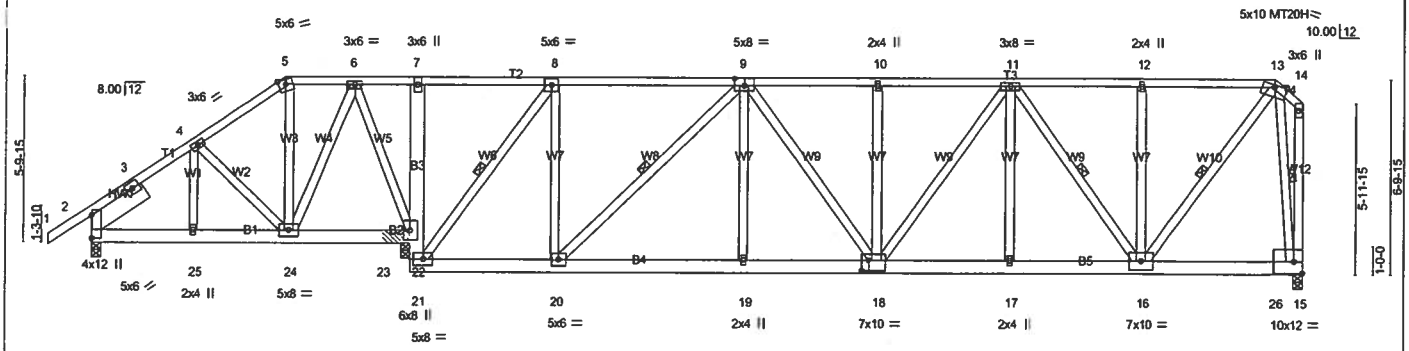
Dwg.#0418061518

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T25	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:29 2006 Page 1

1-6-0	3-6-8	6-9-8	9-2-4	16-2-8	22-10-0	27-5-8	32-1-0	36-8-8	41-4-0	42-4-0
1-6-0	3-6-8	3-3-0	2-4-12	7-0-4	6-7-8	4-7-8	4-7-8	4-7-8	4-7-8	1-0-0

Scale = 1:76.9
Camber = 1/16 in



3-6-8	6-9-8	7-0-0	11-0-0	11-2-0	16-2-8	22-10-0	27-5-8	32-1-0	36-8-8	41-4-0	42-4-0
3-6-8	3-3-0	0-2-8	4-0-0	0-2-0	5-0-8	6-7-8	4-7-8	4-7-8	4-7-8	4-7-8	1-0-0

Plate Offsets (X,Y): [2:0-9-11,0-0-2], [9:0-4-0,0-3-0], [18:0-3-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.92	Vert(LL)	0.17	18	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.24	18	>999	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.02	15	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 357 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W6 2 X 4 SYP No.2
SLIDER Left 2 X 8 SYP No.1D 2-3-12

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-1 max.): 5-13.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-21, 9-20, 11-16, 13-16, 13-15

REACTIONS (lb/size) 2=370/0-4-0, 22=4640/0-5-8 (0-4-0 + bearing block), 15=2611/0-4-0
Max Horz 2=235(load case 4)
Max Uplift2=-311(load case 4), 22=-3117(load case 3), 15=-1614(load case 2)
Max Grav 2=370(load case 8), 22=4640(load case 1), 15=2614(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/6, 2-3=-278/196, 3-4=-209/214, 4-5=-47/124, 5-6=-36/145, 6-7=-606/923, 7-8=-558/856, 8-9=-1125/693, 9-10=-2959/1859, 10-11=-2959/1859, 11-12=-1857/1174, 12-13=-1857/1174, 13-14=-64/0, 14-15=-79/0
BOT CHORD 2-25=-293/155, 24-25=-293/155, 23-24=-445/282, 22-23=-445/282, 21-22=-1624/2739, 7-22=-394/420, 20-21=-685/1125, 19-20=-1657/2658, 18-19=-1657/2658, 17-18=-1699/2711, 16-17=-1699/2711, 16-26=-234/348, 15-26=-234/348
WEBS 4-25=-130/151, 4-24=-240/232, 5-24=-242/166, 6-24=-731/1052, 8-21=-3298/2081, 8-20=-892/1939, 9-20=-2143/1362, 9-19=0/374, 9-18=-327/520, 10-18=-485/528, 11-18=-249/425, 11-17=0/294, 11-16=-1467/938, 12-16=-566/612, 13-16=-1579/2591, 13-15=-2365/1640, 6-22=-1323/1034

NOTES
1) 2 X 6 SYP No.1D bearing block 12" long at jt. 22 attached to front face with 3 rows of 0.131"x3" Nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SYP.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 2, 3117 lb uplift at joint 22 and 1614 lb uplift at joint 15.
7) Girder carries hip end with 1-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 59 lb up at 41-4-0, and 539 lb down and 410 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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, 5-13=-117(F=-63), 13-14=-54, 2-24=-30, 22-24=-65(F=-35), 21-26=-65(F=-35), 15-26=-30
Concentrated Loads (lb)
Vert: 24=-539(F) 26=-77(F)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061519

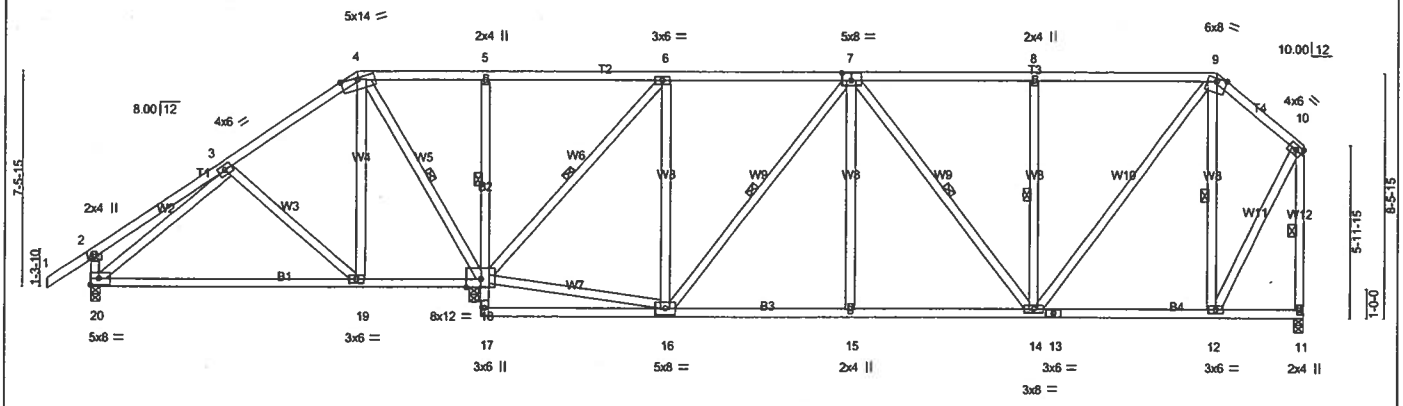
Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T26	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:30 2006 Page 1

1-6-0 | 4-9-8 | 9-3-8 | 13-7-0 | 20-0-4 | 26-5-8 | 32-10-12 | 39-4-0 | 42-4-0

1-6-0 | 4-9-8 | 4-6-0 | 4-3-8 | 6-5-4 | 6-5-4 | 6-5-4 | 6-5-4 | 3-0-0

Scale = 1:76.4
Camber = 1/16 in



9-3-8 | 13-4-0 | 13-7-0 | 20-0-4 | 26-5-8 | 32-10-12 | 39-4-0 | 42-4-0

9-3-8 | 4-0-8 | 0-3-0 | 6-5-4 | 6-5-4 | 6-5-4 | 6-5-4 | 3-0-0

Plate Offsets (X,Y): [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	0.70	Vert(LL)	0.25	19-20	>640	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.22	19-20	>756	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 318 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.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 5-18
WEBS 1 Row at midpt 4-18, 6-18, 7-16, 7-14, 8-14, 9-12, 10-11

REACTIONS (lb/size) 18=2078/0-4-0, 20=450/0-4-0, 11=1093/0-4-0
Max Horz 20=300(load case 5)
Max Uplift18=-1162(load case 4), 20=-351(load case 5), 11=-450(load case 3)
Max Grav 18=2078(load case 1), 20=454(load case 9), 11=1103(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-328/440, 3-4=-64/176, 4-5=-174/387, 5-6=-170/382, 6-7=-499/273, 7-8=-843/446, 8-9=-844/445, 9-10=-517/234, 2-20=-356/414, 10-11=-1077/453
BOT CHORD 19-20=-295/165, 18-19=-107/72, 17-18=0/93, 5-18=-310/269, 16-17=0/91, 15-16=-403/881, 14-15=-403/881, 13-14=-150/369, 12-13=-150/369, 11-12=-4/4
WEBS 3-19=-226/258, 4-19=-444/387, 4-18=-732/602, 16-18=-244/412, 6-18=-1299/610, 6-16=-164/628, 7-16=-632/302, 7-15=0/192, 7-14=-61/36, 8-14=-361/309, 9-14=-378/766, 9-12=-571/331, 3-20=-239/261, 10-12=-340/816

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1162 lb uplift at joint 18, 351 lb uplift at joint 20 and 450 lb uplift at joint 11.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

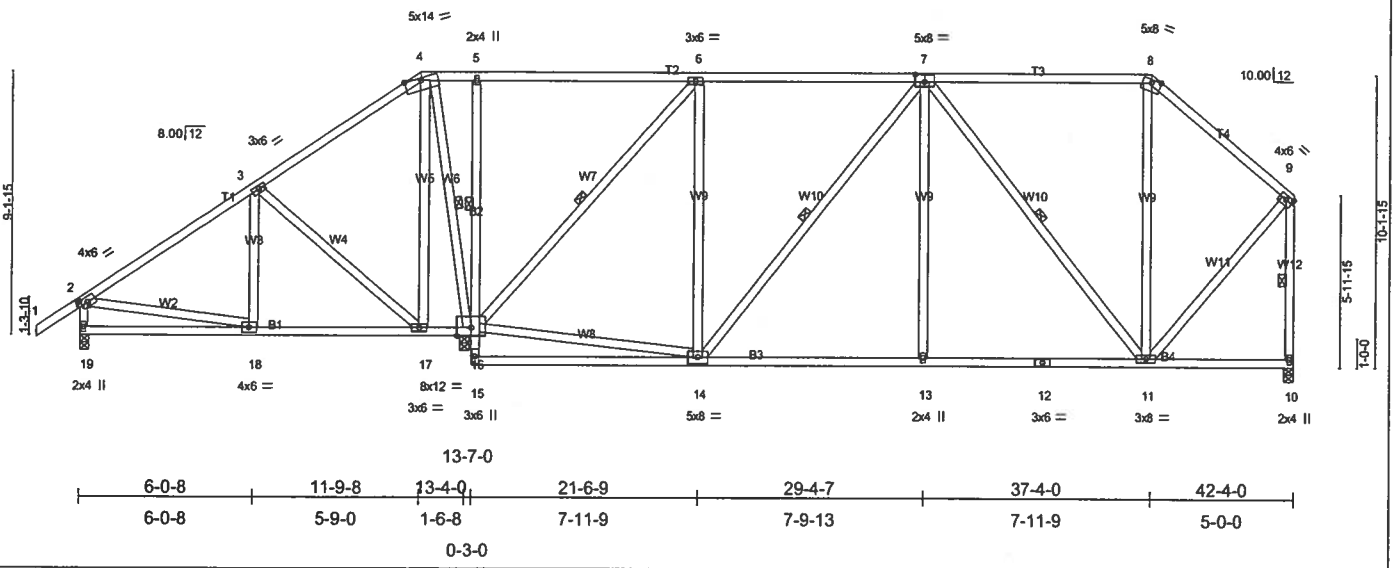
Dwg.#0418061520

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T27	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:31 2006 Page 1

1-6-0 | 6-0-8 | 11-9-8 | 13-7-0 | 21-6-9 | 29-4-7 | 37-4-0 | 42-4-0
1-6-0 | 6-0-8 | 5-9-0 | 1-9-8 | 7-11-9 | 7-9-13 | 7-11-9 | 5-0-0

Scale = 1:76.4



13-7-0

6-0-8 | 11-9-8 | 13-4-0 | 21-6-9 | 29-4-7 | 37-4-0 | 42-4-0
6-0-8 | 5-9-0 | 1-6-8 | 7-11-9 | 7-9-13 | 7-11-9 | 5-0-0

0-3-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [7:0-4-0,0-3-0], [9:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.09	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.15	11-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.02	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 329 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.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 16-17,10-11.
1 Row at midpt 5-16
WEBS 1 Row at midpt 4-16, 6-16, 7-14, 7-11, 9-10

REACTIONS (lb/size) 19=488/0-4-0, 16=2022/0-4-0, 10=1111/0-4-0
Max Horz 19=324(load case 5)
Max Uplift19=-345(load case 5), 16=-1094(load case 4), 10=-406(load case 3)
Max Grav 19=491(load case 9), 16=2022(load case 1), 10=1123(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-351/267, 3-4=-93/220, 4-5=-96/248, 5-6=-91/242, 6-7=-578/319, 7-8=-495/319, 8-9=-704/299, 2-19=-407/326, 9-10=-1066/414
BOT CHORD 18-19=-388/146, 17-18=-301/220, 16-17=-128/177, 15-16=0/116, 5-16=-353/324, 14-15=0/136, 13-14=-351/804, 12-13=-351/804, 11-12=-351/804, 10-11=-16/12
WEBS 3-18=-232/194, 3-17=-436/488, 4-17=-456/412, 4-16=-649/573, 14-16=-308/446, 6-16=-1204/578, 6-14=-72/476, 7-14=-378/190, 7-13=0/240, 7-11=-514/285, 8-11=0/98, 2-18=-28/124, 9-11=-286/739

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 19, 1094 lb uplift at joint 16 and 406 lb uplift at joint 10.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

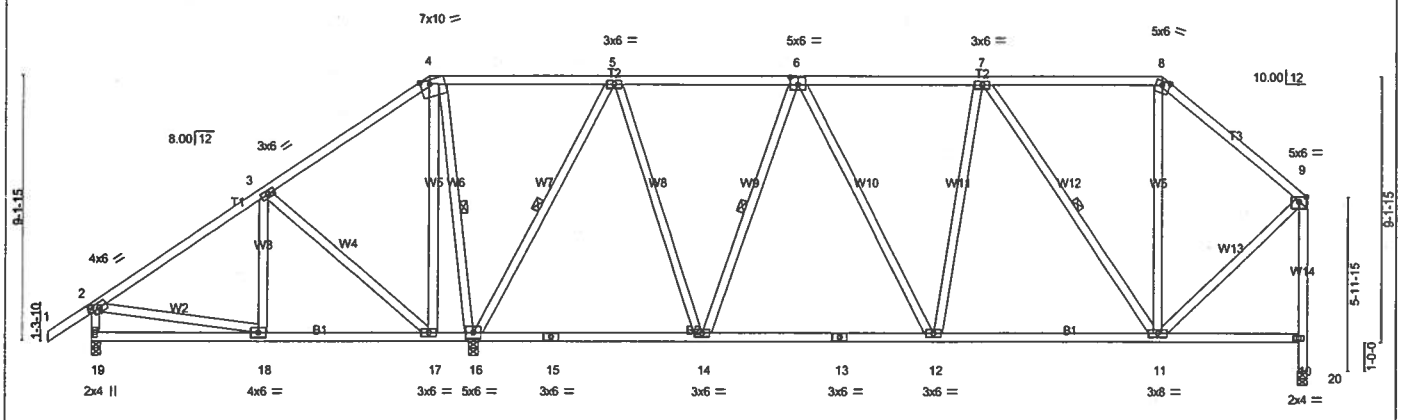
Dwg.#0418061521

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T28	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:32 2006 Page 1

1-6-0	6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
1-6-0	6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Scale = 1:76.1



6-0-8	11-9-8	13-4-0	21-4-0	29-4-0	37-4-0	42-4-0
6-0-8	5-9-0	1-6-8	8-0-0	8-0-0	8-0-0	5-0-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-4-0,Edge], [6:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.09	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.15	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.04	20	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 304 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-16, 5-16, 6-14, 7-11

REACTIONS (lb/size) 19=401/0-4-0, 16=2122/0-4-0, 20=1098/0-4-0
Max Horz 19=324(load case 5)
Max Uplift19=-343(load case 5), 16=-1080(load case 4), 20=-416(load case 3)
Max Grav 19=406(load case 9), 16=2122(load case 1), 20=1109(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-230/255, 3-4=-104/359, 4-5=-110/354, 5-6=-556/323, 6-7=-840/457, 7-8=-537/337, 8-9=-767/333, 2-19=-324/319, 10-20=-1109/416, 9-10=-1050/423
BOT CHORD 18-19=-394/136, 17-18=-297/146, 16-17=-228/167, 15-16=-193/286, 14-15=-193/286, 13-14=-377/744, 12-13=-377/744, 11-12=-384/827, 10-11=-22/19
WEBS 3-18=-236/219, 3-17=-440/481, 4-17=-468/288, 4-16=-778/701, 5-16=-1275/666, 5-14=-284/817, 6-14=-566/339, 6-12=-38/215, 7-12=0/82, 7-11=-528/332, 8-11=-36/186, 2-18=-133/143, 9-11=-283/713

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) 20 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 343 lb uplift at joint 19, 1080 lb uplift at joint 16 and 416 lb uplift at joint 20.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

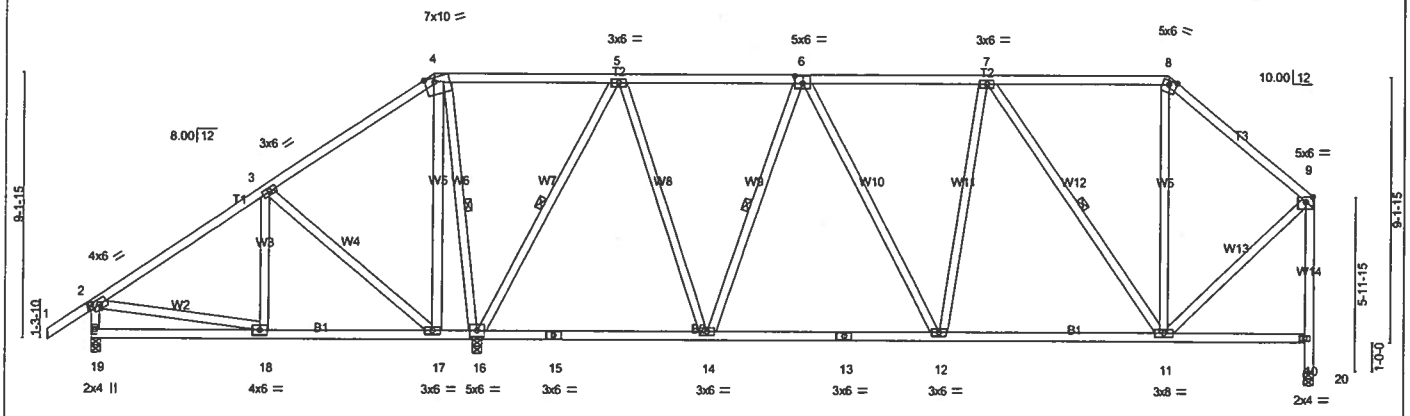
Dwg.#0418061522

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T29	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:33 2006 Page 1

1-6-0	6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
1-6-0	6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Scale = 1:76.1



6-0-8	11-9-8	13-4-0	21-4-0	29-4-0	37-4-0	42-4-0
6-0-8	5-9-0	1-6-8	8-0-0	8-0-0	8-0-0	5-0-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-4-0,Edge], [6:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.09	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.15	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.04	20	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 304 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-16, 5-16, 6-14, 7-11

REACTIONS (lb/size) 19=401/0-4-0, 16=2122/0-4-0, 20=1098/0-4-0
Max Horz 19=324(load case 5)
Max Uplift19=-343(load case 5), 16=-1080(load case 4), 20=-416(load case 3)
Max Grav 19=406(load case 9), 16=2122(load case 1), 20=1109(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-230/255, 3-4=-104/359, 4-5=-110/354, 5-6=-556/323, 6-7=-840/457, 7-8=-537/337, 8-9=-767/333, 2-19=-324/319, 10-20=-1109/416, 9-10=-1050/423
BOT CHORD 18-19=-394/136, 17-18=-297/146, 16-17=-228/167, 15-16=-193/286, 14-15=-193/286, 13-14=-377/744, 12-13=-377/744, 11-12=-384/827, 10-11=-22/19
WEBS 3-18=-236/219, 3-17=-440/481, 4-17=-468/288, 4-16=-778/701, 5-16=-1275/666, 5-14=-284/817, 6-14=-566/339, 6-12=-38/215, 7-12=0/82, 7-11=-528/332, 8-11=-36/186, 2-18=-133/143, 9-11=-283/713

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) 20 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 343 lb uplift at joint 19, 1080 lb uplift at joint 16 and 416 lb uplift at joint 20.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

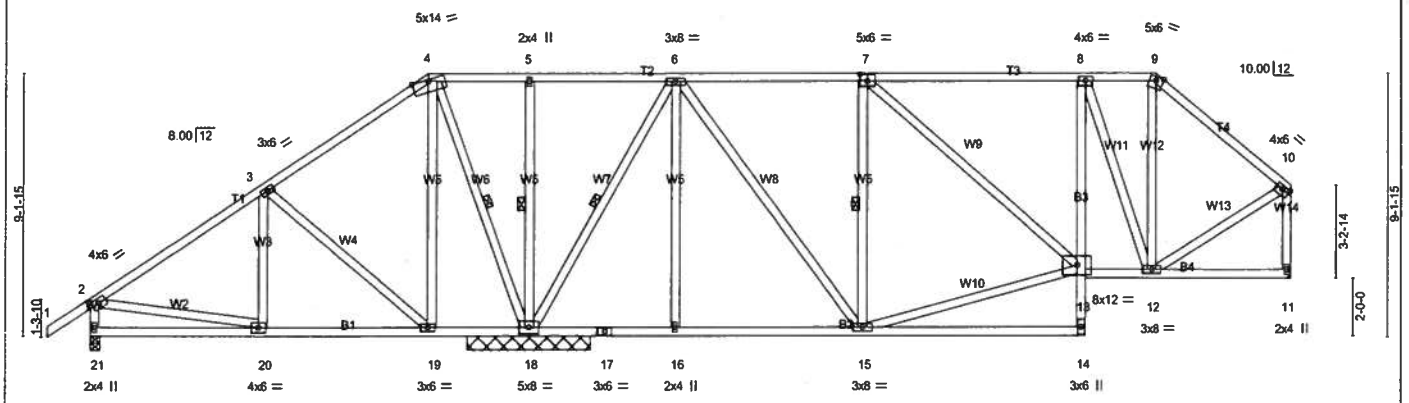
Dwg.#0418061523

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T30	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:34 2006 Page 1

1-6-0	6-0-8	11-9-8	15-4-0	20-5-11	27-1-13	34-10-0	37-4-0	42-0-8
1-6-0	6-0-8	5-9-0	3-6-8	5-1-11	6-8-2	7-8-3	2-6-0	4-8-8

Scale = 1:76.9



6-0-8	11-9-8	15-4-0	20-5-11	27-1-13	34-10-0	37-4-0	42-0-8
6-0-8	5-9-0	3-6-8	5-1-11	6-8-2	7-8-3	2-6-0	4-8-8

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [7:0-3-0,0-3-0], [10:0-3-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.09	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.15	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 328 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 18-19.
WEBS 1 Row at midpt 4-18, 6-18, 7-15, 5-18

REACTIONS (lb/size) 21=507/0-4-0, 11=987/Mechanical, 18=2102/4-4-0
Max Horz 21=332(load case 5)
Max Uplift21=-380(load case 5), 11=-368(load case 3), 18=-1052(load case 4)
Max Grav 21=510(load case 9), 11=1003(load case 10), 18=2102(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-377/323, 3-4=-50/189, 4-5=-142/368, 5-6=-141/368, 6-7=-674/383, 7-8=-776/432, 8-9=-571/326, 9-10=-817/346, 2-21=-425/366, 10-11=-933/378
BOT CHORD 20-21=-390/137, 19-20=-349/241, 18-19=-125/151, 17-18=-140/275, 16-17=-140/275, 15-16=-140/275, 14-15=0/84, 13-14=0/114, 8-13=-57/241, 12-13=-322/766, 11-12=-34/43
WEBS 3-20=-225/196, 3-19=-430/480, 4-19=-410/405, 4-18=-766/585, 6-18=-1208/566, 6-15=-317/692, 7-15=-495/381, 13-15=-329/622, 7-13=-66/139, 8-12=-590/371, 9-12=-184/365, 2-20=-30/106, 10-12=-238/619, 6-16=0/169, 5-18=-241/217

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 380 lb uplift at joint 21, 368 lb uplift at joint 11 and 1052 lb uplift at joint 18.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

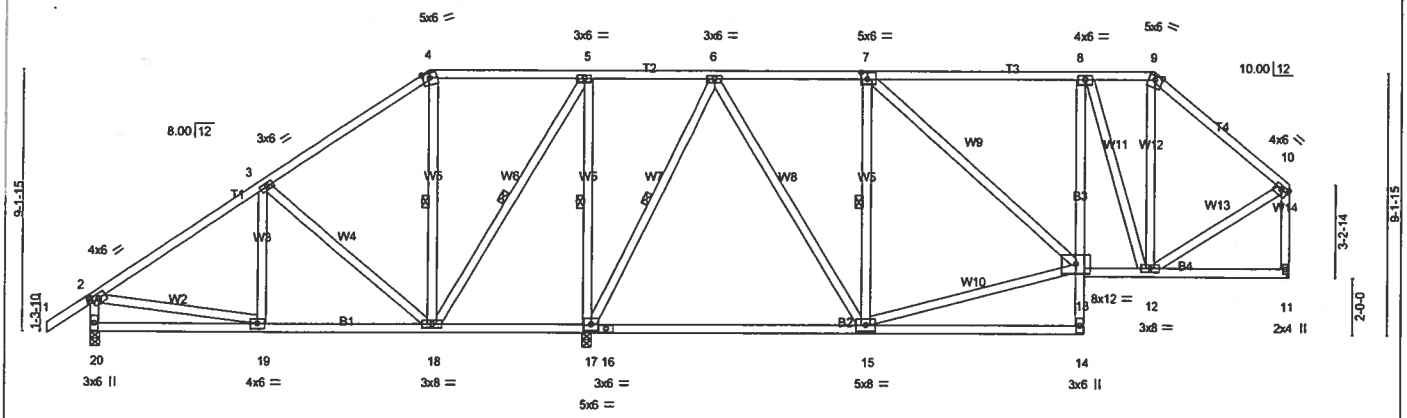
Dwg.#0418061524

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T31	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:35 2006 Page 1

1-6-0	6-0-8	11-9-8	17-4-0	21-9-11	27-1-13	34-10-0	37-4-0	42-0-8
1-6-0	6-0-8	5-9-0	5-6-8	4-5-11	5-4-2	7-8-3	2-6-0	4-8-8

Scale = 1:76.9
Camber = 1/8 in



6-0-8	11-9-8	17-4-0	27-1-13	34-10-0	37-4-0	42-0-8
6-0-8	5-9-0	5-6-8	9-9-13	7-8-3	2-6-0	4-8-8

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [7:0-2-8,0-3-0], [10:0-3-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.16	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.38	Vert(TL)	-0.27	15-17	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 315 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* B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-18, 5-18, 6-17, 7-15, 5-17

REACTIONS (lb/size) 11=931/Mechanical, 20=681/0-4-0, 17=1984/0-4-0
Max Horz 20=332(load case 5)
Max Uplift11=-346(load case 3), 20=-480(load case 5), 17=-1107(load case 4)
Max Grav 11=943(load case 10), 20=684(load case 9), 17=1984(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-621/520, 3-4=-263/328, 4-5=-143/343, 5-6=-70/233, 6-7=-587/345, 7-8=-715/409, 8-9=-529/315, 9-10=-764/326, 2-20=-598/504, 10-11=-873/356
BOT CHORD 13-14=0/96, 8-13=-32/176, 12-13=-302/704, 11-12=-34/44, 19-20=-404/149, 18-19=-508/443, 17-18=-223/153, 16-17=-144/217, 15-16=-144/217, 14-15=0/61
WEBS 3-19=-180/168, 3-18=-390/435, 4-18=-211/96, 5-18=-632/699, 6-17=-954/483, 6-15=-289/730, 7-15=-495/377, 13-15=-283/548, 7-13=-88/181, 8-12=-536/351, 9-12=-177/338, 2-19=-135/299, 10-12=-223/570, 5-17=-874/729

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 346 lb uplift at joint 11, 480 lb uplift at joint 20 and 1107 lb uplift at joint 17.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

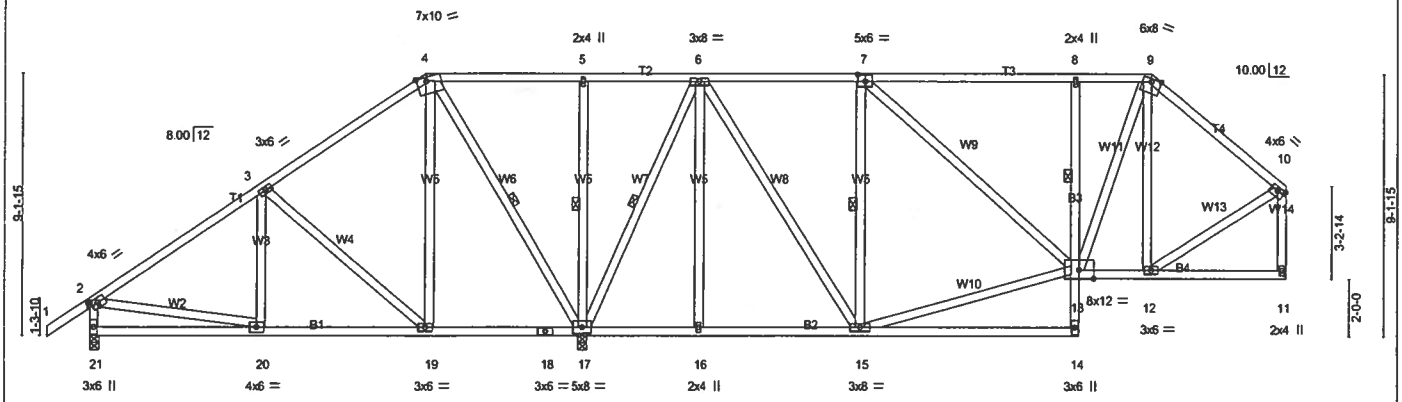
Dwg.#0418061525

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T32	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:36 2006 Page 1

1-6-0	6-0-8	11-9-8	17-4-0	21-5-11	27-1-13	34-10-0	37-4-0	42-0-8
1-6-0	6-0-8	5-9-0	5-6-8	4-1-11	5-8-2	7-8-3	2-6-0	4-8-8

Scale = 1:76.9



6-0-8	11-9-8	17-4-0	21-5-11	27-1-13	34-10-0	37-4-0	42-0-8
6-0-8	5-9-0	5-6-8	4-1-11	5-8-2	7-8-3	2-6-0	4-8-8

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-4-0,Edge], [7:0-3-0,0-3-0], [10:0-3-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.08	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.45	Vert(TL)	-0.13	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 327 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 9-2-14 oc bracing. Except:
1 Row at midpt 8-13
WEBS 1 Row at midpt 4-17, 6-17, 7-15, 5-17

REACTIONS (lb/size) 21=644/0-4-0, 11=912/Mechanical, 17=2041/0-4-0
Max Horz 21=332(load case 5)
Max Uplift21=-446(load case 5), 11=-331(load case 3), 17=-1162(load case 4)
Max Grav 21=648(load case 9), 11=931(load case 10), 17=2041(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-568/458, 3-4=-210/255, 4-5=-130/311, 5-6=-129/311, 6-7=-555/321, 7-8=-681/384, 8-9=-670/372, 9-10=-754/313, 2-21=-560/461, 10-11=-861/341
BOT CHORD 20-21=-402/151, 19-20=-456/398, 18-19=-175/110, 17-18=-175/110, 16-17=-77/184, 15-16=-77/184, 14-15=0/88, 13-14=0/113, 8-13=-317/288, 12-13=-169/512, 11-12=-34/44
WEBS 3-20=-194/166, 3-19=-389/446, 4-19=-491/419, 4-17=-783/675, 6-17=-1063/480, 6-15=-332/712, 7-15=-504/379, 13-15=-260/492, 7-13=-92/176, 9-13=-303/465, 9-12=-145/123, 2-20=-85/251, 10-12=-206/560, 5-17=-281/247, 6-16=0/125

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 446 lb uplift at joint 21, 331 lb uplift at joint 11 and 1162 lb uplift at joint 17.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

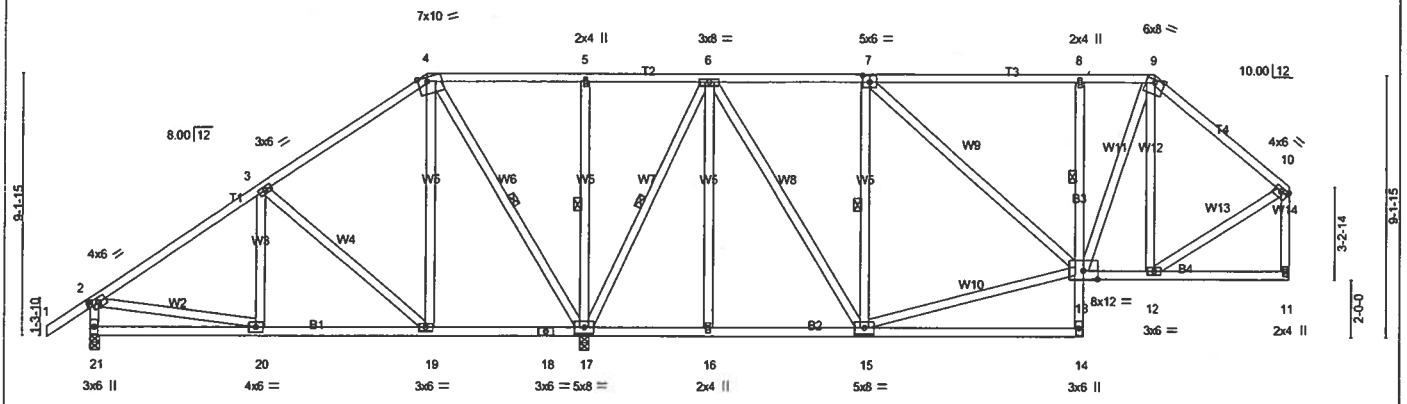
Dwg.#0418061526

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T33	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:37 2006 Page 1

1-6-0	6-0-8	11-9-8	17-4-0	21-8-11	27-1-13	34-10-0	37-4-0	42-0-8
1-6-0	6-0-8	5-9-0	5-6-8	4-4-11	5-5-2	7-8-3	2-6-0	4-8-8

Scale = 1:76.9



6-0-8	11-9-8	17-4-0	21-8-11	27-1-13	34-10-0	37-4-0	42-0-8
6-0-8	5-9-0	5-6-8	4-4-11	5-5-2	7-8-3	2-6-0	4-8-8

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-4-0,Edge], [7:0-3-0,0-3-0], [10:0-3-0,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.08	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.13	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 327 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing. Except:
1 Row at midpt 8-13
WEBS 1 Row at midpt 4-17, 6-17, 7-15, 5-17

REACTIONS (lb/size) 21=642/0-4-0, 11=911/Mechanical, 17=2043/0-4-0
Max Horz 21=332(load case 5)
Max Uplift21=-445(load case 5), 11=-330(load case 3), 17=-1163(load case 4)
Max Grav 21=646(load case 9), 11=930(load case 10), 17=2043(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-566/457, 3-4=-208/254, 4-5=-131/313, 5-6=-130/312, 6-7=-553/320, 7-8=-680/384, 8-9=-670/372, 9-10=-753/313, 2-21=-559/460, 10-11=-860/341
BOT CHORD 20-21=-402/151, 19-20=-455/397, 18-19=-174/108, 17-18=-174/108, 16-17=-85/203, 15-16=-85/203, 14-15=0/89, 13-14=0/113, 8-13=-320/290, 12-13=-169/512, 11-12=-34/44
WEBS 3-20=-194/166, 3-19=-389/446, 4-19=-492/419, 4-17=-782/675, 6-17=-1061/480, 6-15=-323/693, 7-15=-499/374, 13-15=-258/489, 7-13=-93/179, 9-13=-303/465, 9-12=-144/123, 2-20=-84/250, 10-12=-205/559, 5-17=-291/256, 6-16=0/123

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 445 lb uplift at joint 21, 330 lb uplift at joint 11 and 1163 lb uplift at joint 17.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

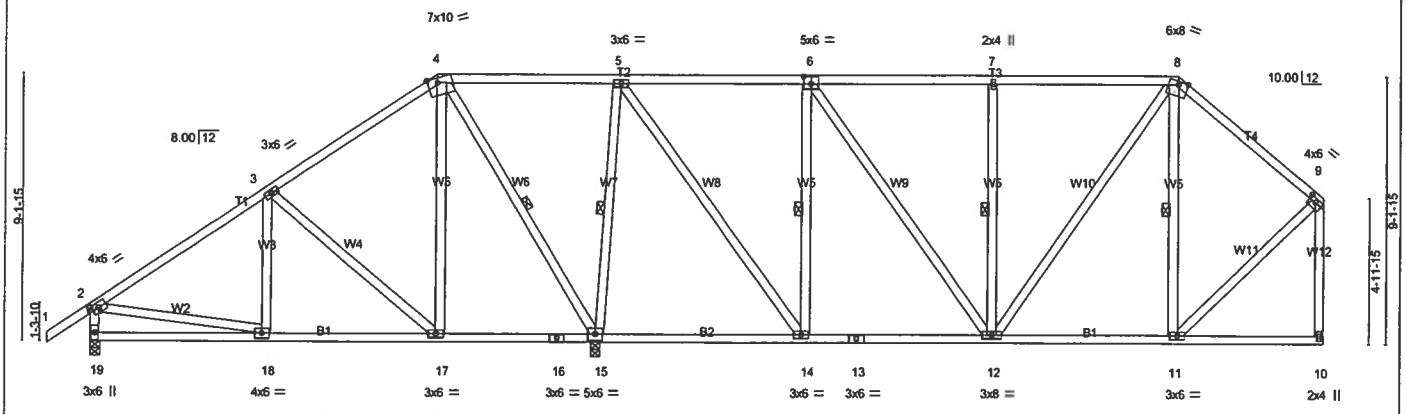
Dwg.#0418061527

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T34	CAL.	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:38 2006 Page 1

1-6-0	6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
1-6-0	6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Scale = 1:75.4



6-0-8	11-9-8	17-4-0	24-6-12	30-11-6	37-4-0	42-4-0
6-0-8	5-9-0	5-6-8	7-2-12	6-4-10	6-4-10	5-0-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-4-0,Edge], [6:0-3-0,0-3-0], [9:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.05	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.08	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.01	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 305 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 5-15, 6-14, 7-12, 8-11

REACTIONS (lb/size) 19=691/0-4-0, 15=1983/0-4-0, 10=947/Mechanical
Max Horz 19=324(load case 5)
Max Uplift19=-466(load case 5), 15=-1122(load case 4), 10=-348(load case 3)
Max Grav 19=694(load case 9), 15=1983(load case 1), 10=966(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-634/504, 3-4=-283/308, 4-5=-83/230, 5-6=-478/297, 6-7=-657/383, 7-8=-657/383, 8-9=-659/285, 2-19=-607/493, 9-10=-899/358
BOT CHORD 18-19=-406/154, 17-18=-483/453, 16-17=-219/172, 15-16=-219/172, 14-15=-144/154, 13-14=-220/488, 12-13=-220/488, 11-12=-153/447, 10-11=-21/21
WEBS 3-18=-185/159, 3-17=-379/437, 4-17=-494/403, 4-15=-734/656, 5-15=-1168/676, 5-14=-432/995, 6-14=-601/400, 6-12=-152/316, 7-12=-354/310, 8-12=-229/372, 8-11=-236/188, 2-18=-119/304, 9-11=-225/595

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 466 lb uplift at joint 19, 1122 lb uplift at joint 15 and 348 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061528

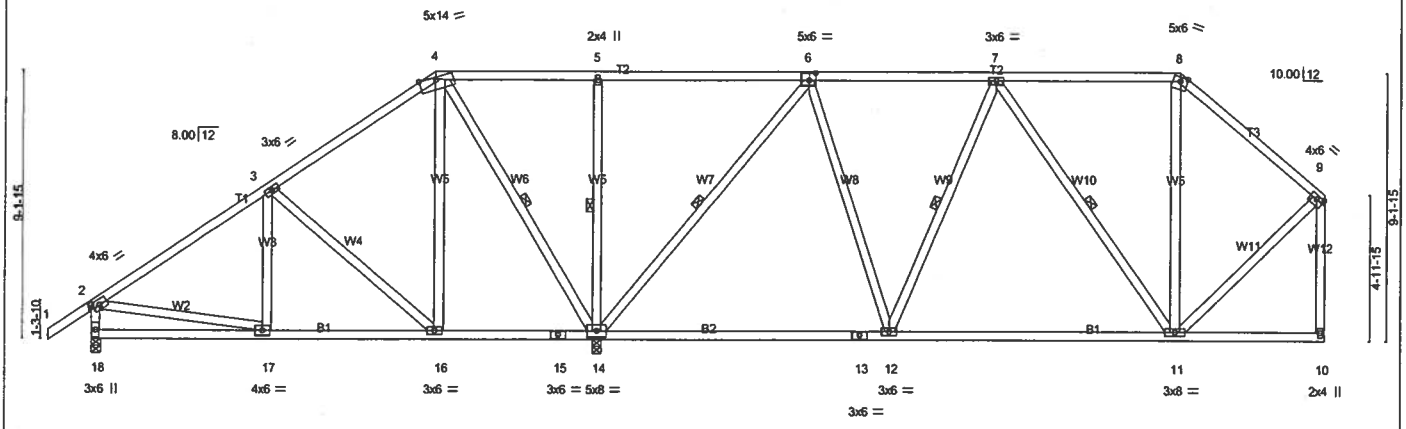
Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T35	CAL.	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:39 2006 Page 1

1-6-0 | 6-0-8 | 11-9-8 | 17-4-0 | 24-6-12 | 30-11-6 | 37-4-0 | 42-4-0

1-6-0 | 6-0-8 | 5-9-0 | 5-6-8 | 7-2-12 | 6-4-10 | 6-4-10 | 5-0-0

Scale = 1:75.4
Camber = 1/8 in



6-0-8 | 11-9-8 | 17-4-0 | 27-4-0 | 37-4-0 | 42-4-0

6-0-8 | 5-9-0 | 5-6-8 | 10-0-0 | 10-0-0 | 5-0-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [6:0-2-12,0-3-0], [9:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.15	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.26	11-12	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.02	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 292 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, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 5-14, 6-14, 7-12, 7-11

REACTIONS (lb/size) 18=633/0-4-0, 14=2069/0-4-0, 10=918/Mechanical
Max Horz 18=324(load case 5)
Max Uplift18=-447(load case 5), 14=-1166(load case 4), 10=-330(load case 3)
Max Grav 18=637(load case 9), 14=2069(load case 1), 10=937(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-555/459, 3-4=-188/258, 4-5=-128/307, 5-6=-127/307, 6-7=-548/299, 7-8=-447/284, 8-9=-650/269, 2-18=-551/461, 9-10=-893/335
BOT CHORD 17-18=-402/145, 16-17=-446/388, 15-16=-174/89, 14-15=-174/89, 13-14=-193/410, 12-13=-193/410, 11-12=-265/598, 10-11=-22/14
WEBS 3-17=-190/175, 3-16=-402/447, 4-16=-506/394, 4-14=-739/671, 5-14=-374/325, 6-14=-1076/522, 6-12=-100/480, 7-12=-154/178, 7-11=-278/217, 8-11=0/105, 2-17=-86/247, 9-11=-209/596

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 447 lb uplift at joint 18, 1166 lb uplift at joint 14 and 330 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

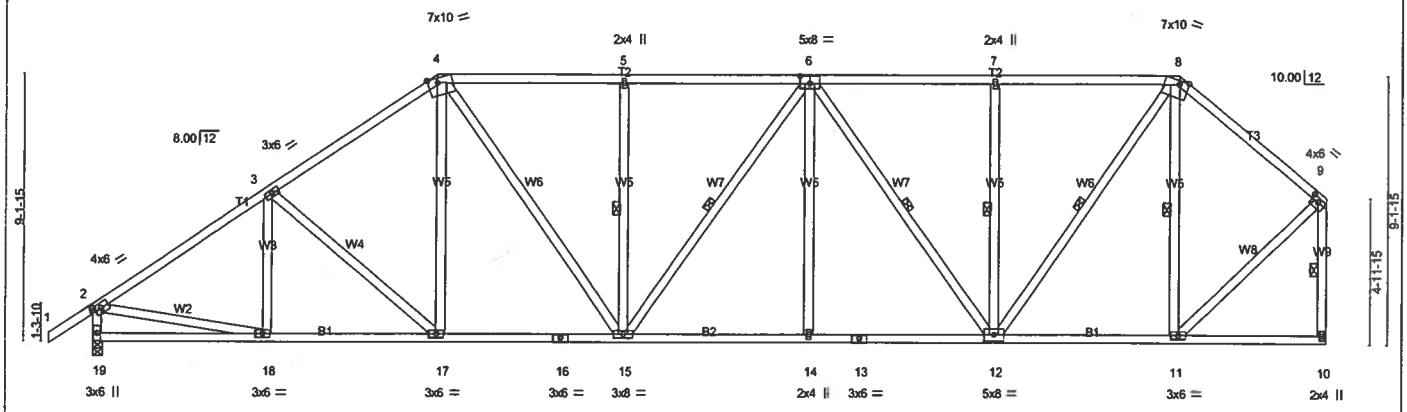
Dwg.#0418061529

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T36	CAL.	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:39 2006 Page 1

1-6-0	6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
1-6-0	6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Scale = 1:75.4
Camber = 1/8 in



6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-4-0,Edge], [6:0-4-0,0-3-0], [8:0-3-13,Edge], [9:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.17	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.27	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(TL)	0.09	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 305 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-7 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 5-15, 6-15, 6-12, 7-12, 8-12, 8-11, 9-10

REACTIONS (lb/size) 19=1856/0-4-0, 10=1764/Mechanical
Max Horz 19=324(load case 5)
Max Uplift19=-585(load case 5), 10=-612(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-2272/847, 3-4=-2128/901, 4-5=-2076/960, 5-6=-2076/960, 6-7=-1669/791, 7-8=-1669/791, 8-9=-1240/525, 2-19=-1758/750, 9-10=-1696/685
BOT CHORD 18-19=-358/218, 17-18=-819/1812, 16-17=-768/1705, 15-16=-768/1705, 14-15=-926/2065, 13-14=-926/2065, 12-13=-926/2065, 11-12=-343/885, 10-11=-21/23
WEBS 3-18=-130/129, 3-17=-196/222, 4-17=-109/284, 4-15=-460/727, 5-15=-355/314, 6-15=-56/123, 6-14=0/192, 6-12=-690/331, 7-12=-356/313, 8-12=-667/1364, 8-11=-661/377, 2-18=-488/1620, 9-11=-499/1208

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 585 lb uplift at joint 19 and 612 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

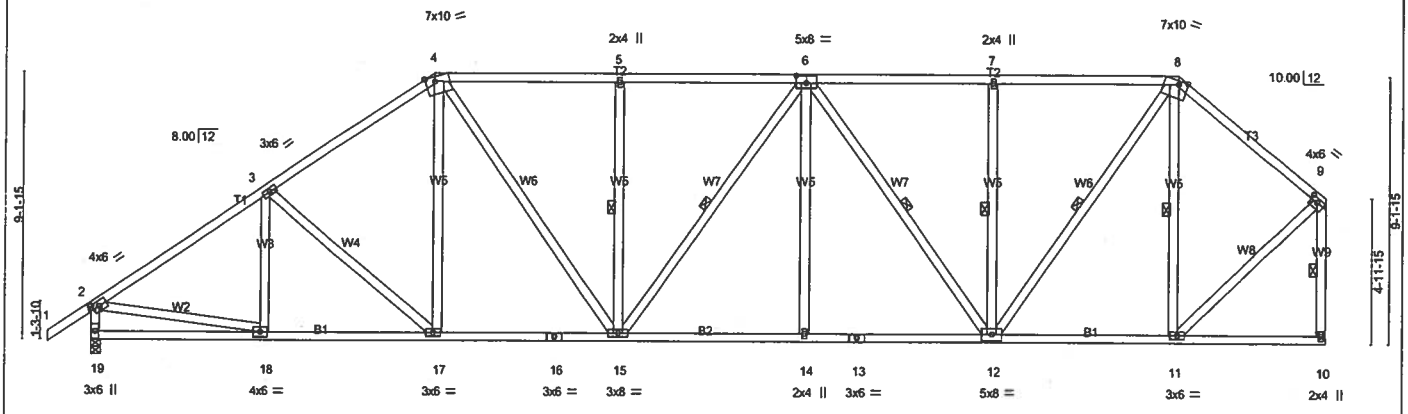
Dwg.#0418061530

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T37	CAL.	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:40 2006 Page 1

1-6-0	6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
1-6-0	6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Scale = 1:75.4
Camber = 1/8 in



6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-4-0,Edge], [6:0-4-0,0-3-0], [8:0-3-13,Edge], [9:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.17	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.27	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(TL)	0.09	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 305 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-7 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 5-15, 6-15, 6-12, 7-12, 8-12, 8-11, 9-10

REACTIONS (lb/size) 19=1856/0-4-0, 10=1764/Mechanical
Max Horz 19=324(load case 5)
Max Uplift19=-585(load case 5), 10=-612(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-2272/847, 3-4=-2128/901, 4-5=-2076/960, 5-6=-2076/960, 6-7=-1669/791, 7-8=-1669/791, 8-9=-1240/525, 2-19=-1758/750, 9-10=-1696/685
BOT CHORD 18-19=-358/218, 17-18=-819/1812, 16-17=-768/1705, 15-16=-768/1705, 14-15=-926/2065, 13-14=-926/2065, 12-13=-926/2065, 11-12=-343/885, 10-11=-21/23
WEBS 3-18=-130/129, 3-17=-196/222, 4-17=-109/284, 4-15=-460/727, 5-15=-355/314, 6-15=-56/123, 6-14=0/192, 6-12=-690/331, 7-12=-356/313, 8-12=-667/1364, 8-11=-661/377, 2-18=-488/1620, 9-11=-499/1208

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 585 lb uplift at joint 19 and 612 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

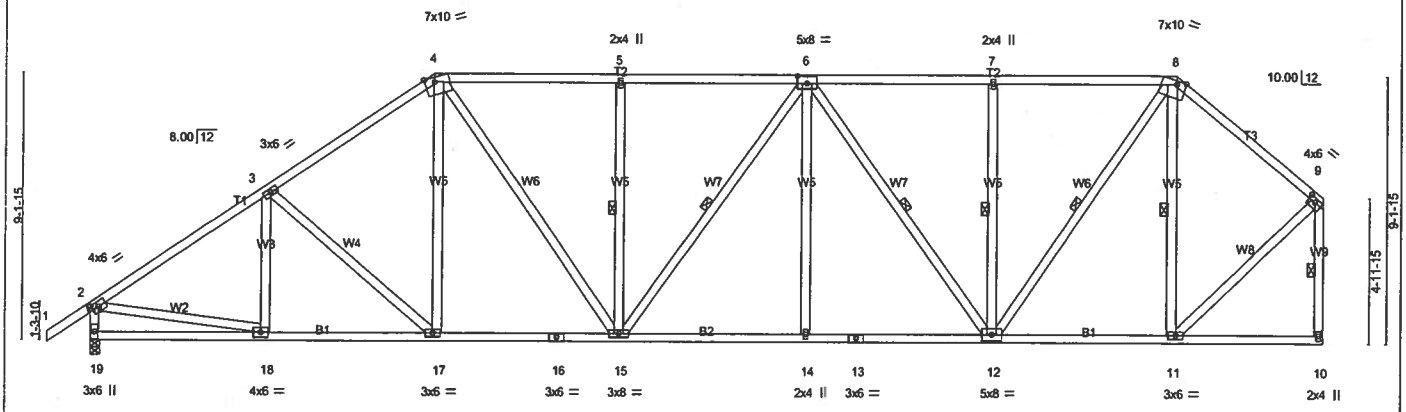
Dwg.#0418061531

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T38	CAL.	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:41 2006 Page 1

1-6-0	6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
1-6-0	6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Scale = 1:75.4
Camber = 1/8 in



6-0-8	11-9-8	18-2-2	24-6-12	30-11-6	37-4-0	42-4-0
6-0-8	5-9-0	6-4-10	6-4-10	6-4-10	6-4-10	5-0-0

Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-4-0,Edge], [6:0-4-0,0-3-0], [8:0-3-13,Edge], [9:0-3-0,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.47	Vert(LL)	-0.17	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.27	14-15	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(TL)	0.09	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 305 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-7 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 5-15, 6-15, 6-12, 7-12, 8-12, 8-11, 9-10

REACTIONS (lb/size) 19=1856/0-4-0, 10=1764/Mechanical
Max Horz 19=324(load case 5)
Max Uplift19=-585(load case 5), 10=-612(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-2272/847, 3-4=-2128/901, 4-5=-2076/960, 5-6=-2076/960, 6-7=-1669/791, 7-8=-1669/791, 8-9=-1240/525, 2-19=-1758/750, 9-10=-1696/685
BOT CHORD 18-19=-358/218, 17-18=-819/1812, 16-17=-768/1705, 15-16=-768/1705, 14-15=-926/2065, 13-14=-926/2065, 12-13=-926/2065, 11-12=-343/885, 10-11=-21/23
WEBS 3-18=-130/129, 3-17=-196/222, 4-17=-109/284, 4-15=-460/727, 5-15=-355/314, 6-15=-56/123, 6-14=0/192, 6-12=-690/331, 7-12=-356/313, 8-12=-667/1364, 8-11=-661/377, 2-18=-488/1620, 9-11=-499/1208

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 585 lb uplift at joint 19 and 612 lb uplift at joint 10.
6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061532

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T39	JACK	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:42 2006 Page 1

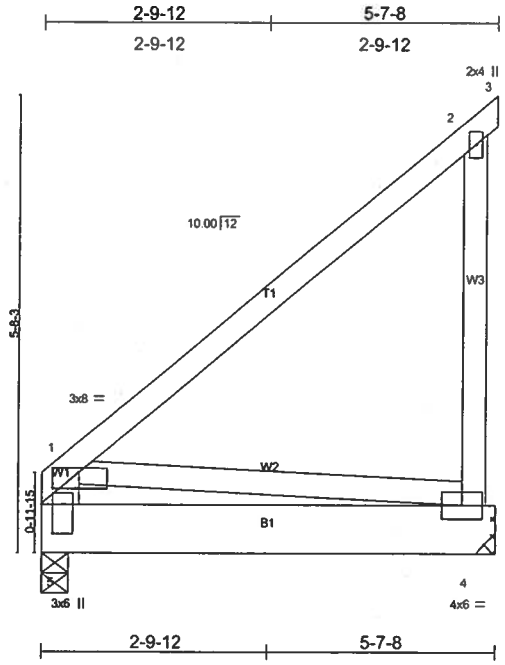


Plate Offsets (X,Y): [1:0-3-14,0-0-10], [5:0-4-6,0-1-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.45	Vert(TL)	-0.06	4-5	>958	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 87 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=1726/0-4-0, 4=1730/Mechanical
Max Horz 5=222(load case 4)
Max Uplift5=-558(load case 2), 4=-800(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-138/0, 1-2=-151/71, 2-3=-2/0
BOT CHORD 4-5=-214/27
WEBS 2-4=-142/195, 1-4=-27/216

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-7-0 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) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 558 lb uplift at joint 5 and 800 lb uplift at joint 4.
6) Girder carries tie-in span(s): 30-4-0 from 0-0-0 to 5-7-8

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-14, 4-5=-620(F=-590)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061533

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T40	MONO HIP	1	1	Job Reference (optional)

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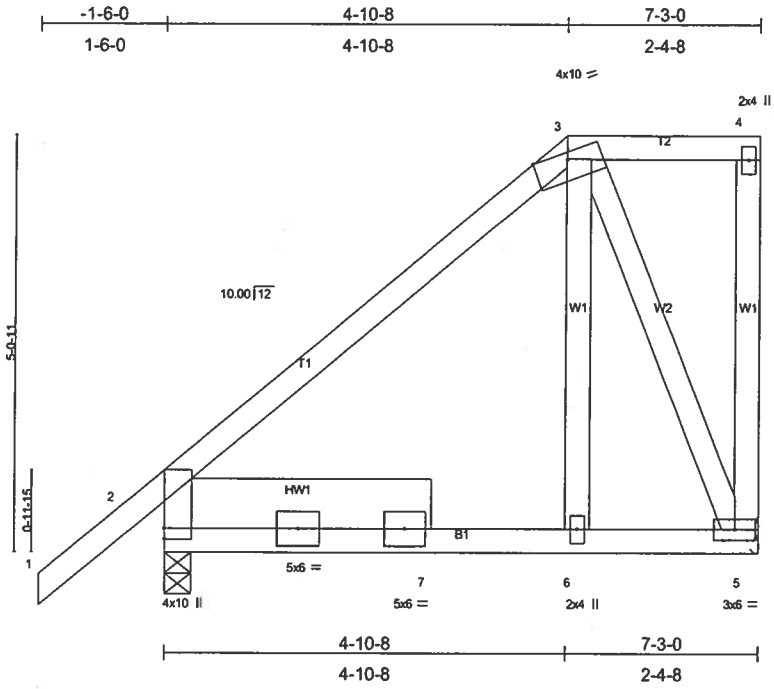


Plate Offsets (X,Y): [2:Edge,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	0.01	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.02	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 57 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
SLIDER Left 2 X 8 SYP No.1D 3-3-0

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

REACTIONS (lb/size) 5=559/Mechanical, 2=475/0-4-0
Max Horz 2=259(load case 4)
Max Uplift5=-401(load case 4), 2=-209(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-381/123, 3-4=-7/7, 4-5=-66/130
BOT CHORD 2-7=-170/206, 6-7=-170/206, 5-6=-176/218
WEBS 3-6=-201/386, 3-5=-499/411

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 5 and 209 lb uplift at joint 2.
5) Girder carries hip end with 0-0-0 right side setback, 4-10-8 left side setback, and 4-10-8 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 230 lb down and 213 lb up at 4-10-8 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), 2-6=-30, 5-6=-51(F=-21)
Concentrated Loads (lb)
Vert: 6=-230(F)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061534

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T41	MONO TRUSS	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:43 2006 Page 1

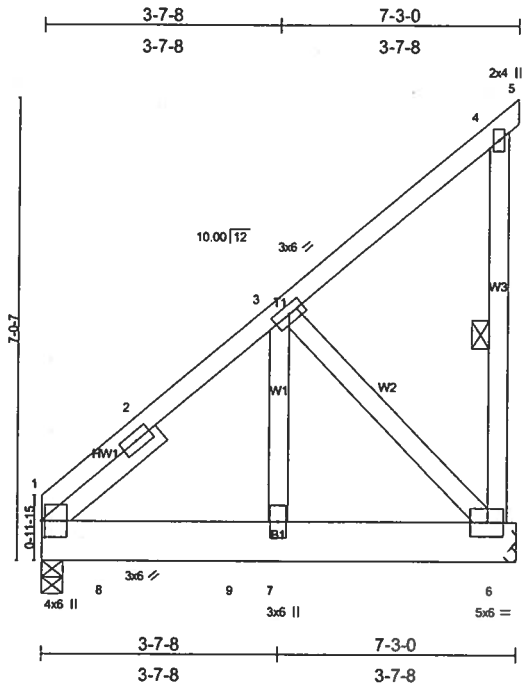


Plate Offsets (X,Y): [1:0-3-0,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	0.01	1-7	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.01	1-7	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 120 lb	

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

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

REACTIONS (lb/size) 1=1178/0-4-0, 6=654/Mechanical
Max Horz 1=300(load case 4)
Max Uplift1=-316(load case 4), 6=-400(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-805/160, 2-3=-691/181, 3-4=-86/44, 4-5=-3/0, 4-6=-80/111
BOT CHORD 1-8=-314/564, 8-9=-314/564, 7-9=-314/564, 6-7=-314/564
WEBS 3-7=-311/866, 3-6=-812/448

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-7-0 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) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 1 and 400 lb uplift at joint 6.
6) Girder carries tie-in span(s): 31-10-0 from 1-0-0 to 3-0-0

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-14, 1-8=-30, 8-9=-651(F=-621), 6-9=-30

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061535

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T43	COMMON	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 4x6 = — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:44 2006 Page 1

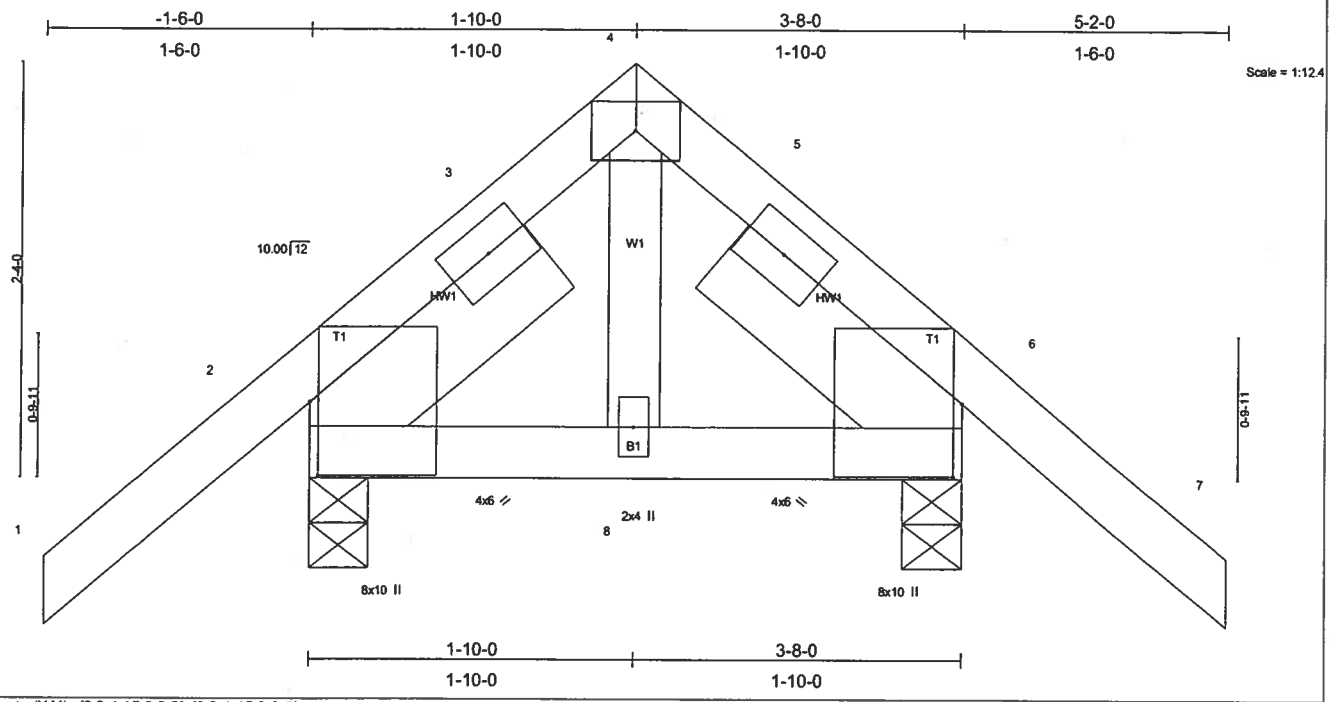


Plate Offsets (X,Y): [2:0-4-15,0-0-9], [6:0-4-15,0-0-9]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.14	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.00	8	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	6	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
SLIDER Left 2 X 6 SYP No.1D 1-7-12, Right 2 X 6 SYP No.1D 1-7-12

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

REACTIONS (lb/size) 2=235/0-4-0, 6=235/0-4-0
Max Horz 2=73(load case 4)
Max Uplift2=-144(load case 5), 6=-144(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-131/15, 3-4=-81/20, 4-5=-81/20, 5-6=-131/15, 6-7=0/37
BOT CHORD 2-8=0/126, 6-8=0/126
WEBS 4-8=0/66

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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 144 lb uplift at joint 2 and 144 lb uplift at joint 6.

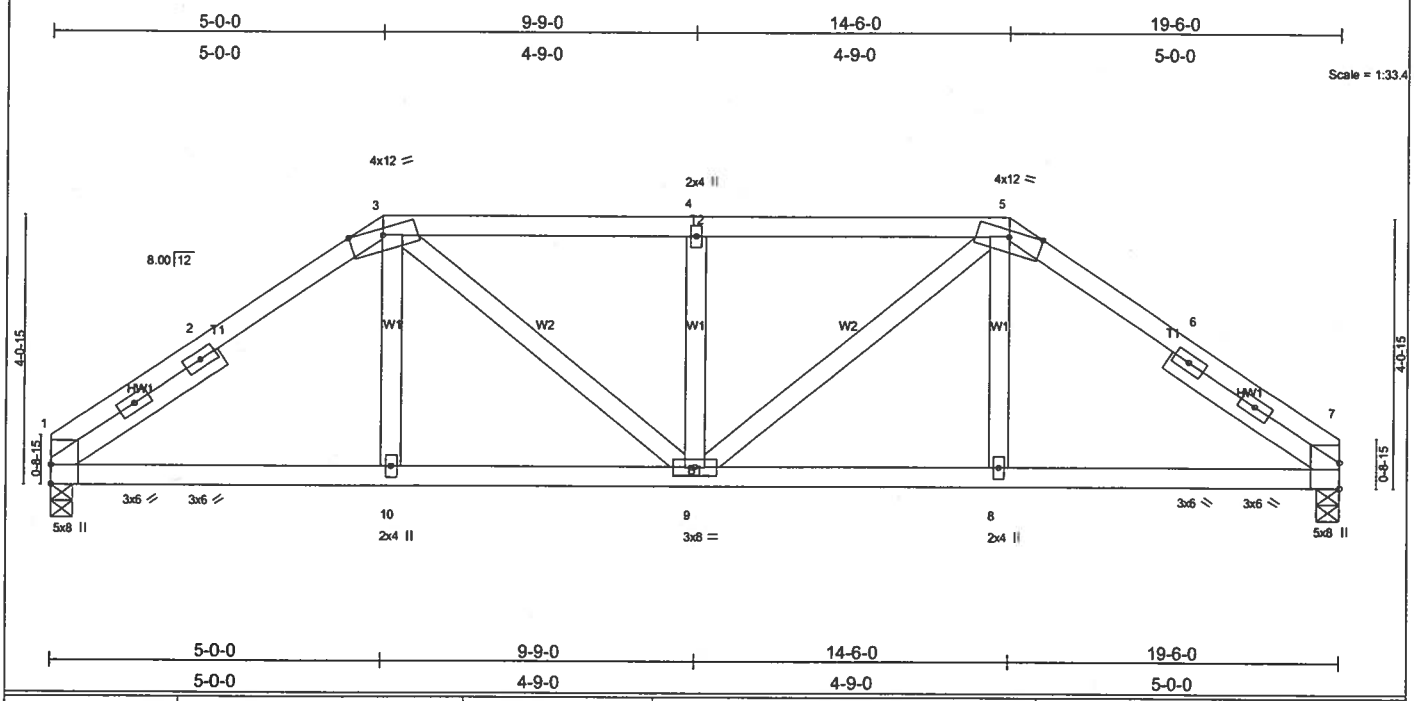
LOAD CASE(S) Standard

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061536

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T44	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:45 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	0.08	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.13	8-9	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.27	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 103 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
SLIDER Left 2 X 4 SYP No.3 3-0-12, Right 2 X 4 SYP No.3 3-0-12

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-9-12 oc bracing.

REACTIONS (lb/size) 1=1327/0-4-0, 7=1327/0-4-0
Max Horz 1=131(load case 3)
Max Uplift1=-626(load case 3), 7=-626(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1950/976, 2-3=-1868/990, 3-4=-1982/1097, 4-5=-1982/1097, 5-6=-1868/991, 6-7=-1950/977
BOT CHORD 1-10=-858/1505, 9-10=-864/1521, 8-9=-754/1521, 7-8=-750/1505
WEBS 3-10=-148/419, 3-9=-455/652, 4-9=-498/516, 5-9=-456/652, 5-8=-148/419

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical 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 626 lb uplift at joint 1 and 626 lb uplift at joint 7.
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 187 lb up at 14-6-0, and 245 lb down and 187 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, 3-5=-90(F=-36), 5-7=-54, 1-10=-30, 8-10=-50(F=-20), 7-8=-30
Concentrated Loads (lb)
Vert: 10=-245(F) 8=-245(F)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061537

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T45	HIP	1	3	Job Reference (optional)

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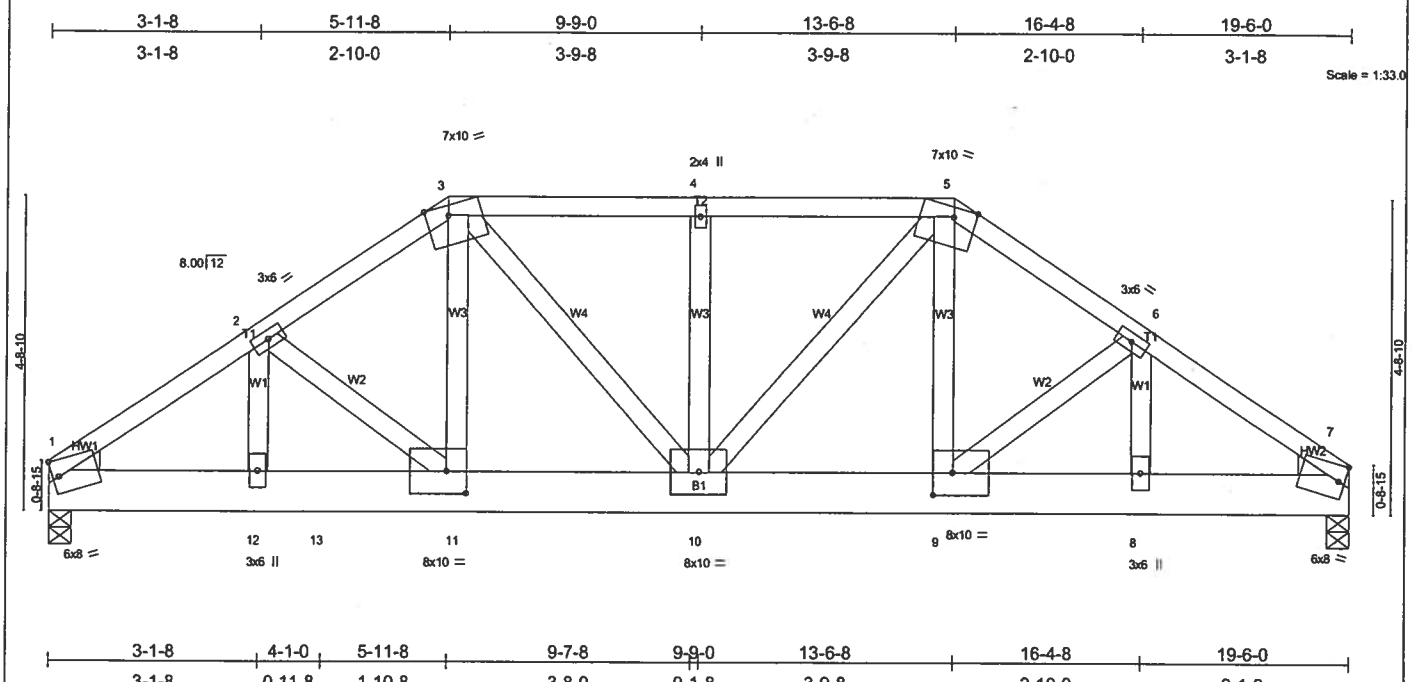

Plate Offsets (X,Y): [3:0-4-0,Edge], [5:0-4-0,Edge], [9:0-3-8,0-4-0], [11:0-3-8,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.14	9-10	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.51	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 427 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
WEDGE
Left: 2 X 4 SYP No.3, Right: 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) 1=5251/0-4-0, 7=9260/0-4-0
Max Horz 1=148(load case 3)
Max Uplift1=-2309(load case 3), 7=-4211(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-7610/3371, 2-3=-7734/3515, 3-4=-9453/4354, 4-5=-9453/4354, 5-6=-10406/4782, 6-7=-11985/5450
BOT CHORD 1-12=-2742/5921, 12-13=-2742/5921, 11-13=-2742/5921, 10-11=-2977/6435, 9-10=-4015/8800, 8-9=-4224/9352, 7-8=-4224/9352
WEBS 2-12=-89/87, 2-11=-422/711, 3-11=-249/621, 3-10=-2220/4587, 4-10=-58/116, 5-10=-534/1032, 5-9=-2218/4757, 6-9=-918/572, 6-8=-1033/2107

NOTES
1) 3-ply truss to be connected together with 0.131"x3" Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-4-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc, Except member 4-10 2 X 4 - 1 row at 0-4-0 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2309 lb uplift at joint 1 and 4211 lb uplift at joint 7.
7) Girder carries tie-in span(s): 8-1-0 from 0-0-0 to 4-1-0; 7-9-0 from 4-1-0 to 9-7-8; 48-4-0 from 9-7-8 to 19-6-0
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 43 lb up at 4-1-0, and 2436 lb down and 1156 lb up at 9-7-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 5-7=-54, 1-13=-151(F=-121), 10-13=-144(F=-114), 7-10=-996(F=-966)
Concentrated Loads (lb)
Vert: 10=-2436(F) 13=-90(F)

APRIL 18, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0418061538

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T46	SPECIAL	1	1	Job Reference (optional)

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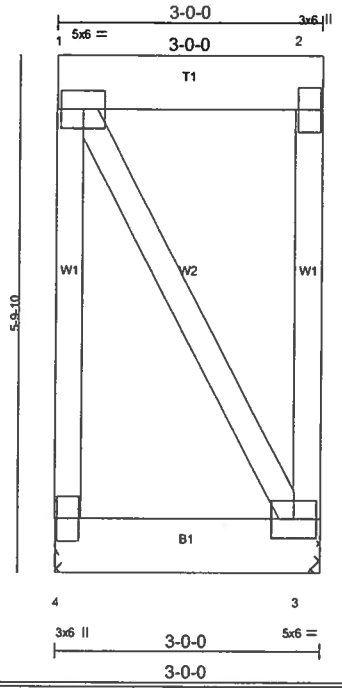

Scale = 1:24.7

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.00	3-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.00	3-4	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 40 lb	

LUMBER
TOP CHORD 2 X 8 SYP 2400F 2.0E
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 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=502/Mechanical, 3=502/Mechanical
Max Uplift4=-190(load case 2), 3=-190(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-307/139, 1-2=0/0, 2-3=-307/139
BOT CHORD 3-4=-0/0
WEBS 1-3=-0/0

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 4 and 190 lb uplift at joint 3.
5) Girder carries tie-in span(s): 7-7-0 from 0-0-0 to 3-0-0; 10-6-0 from 0-0-0 to 3-0-0
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: 1-2=-226(F=-172), 3-4=-145(F=-115)

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

Dwg.#0418061539

Job	Truss	Truss Type	Qty	Ply	COMPASS BUILDERS LOT 19
L158379	T47	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Apr 13 15:25:47 2006 Page 1

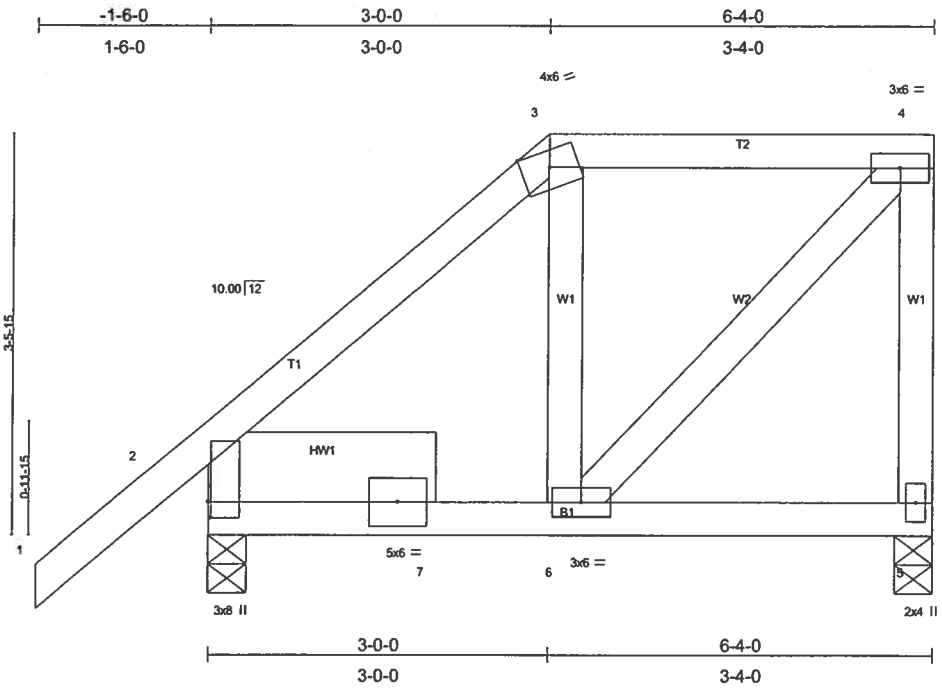

Plate Offsets (X,Y): [2:0-1-11,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.00	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	5-6	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.08	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 44 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
SLIDER Left 2 X 8 SYP No.1D 2-0-0

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

REACTIONS (lb/size) 5=315/0-4-0, 2=393/0-4-0
Max Horz 5=186(load case 4)
Max Uplift5=-134(load case 3), 2=-165(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-270/142, 3-4=-163/76, 1-2=0/30, 2-3=-310/61
BOT CHORD 2-7=-30/162, 6-7=-30/162, 5-6=-1/186
WEBS 4-6=-111/236, 3-6=0/76

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left exposed; 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 134 lb uplift at joint 5 and 165 lb uplift at joint 2.
4) Girder carries hip end with 0-0-0 right side setback, 3-0-0 left side setback, and 3-0-0 end setback.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 30 lb up at 3-0-0 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: 3-4=-63(F=-9), 1-3=-54, 2-6=-30, 5-6=-35(F=-5)
Concentrated Loads (lb)
Vert: 6=-63(F)

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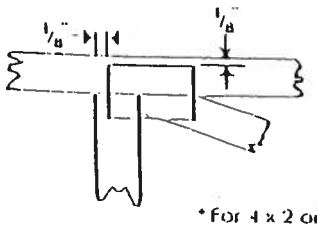
Symbols

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 seat.



* 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

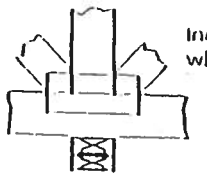
4 X 4

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

LATERAL BRACING

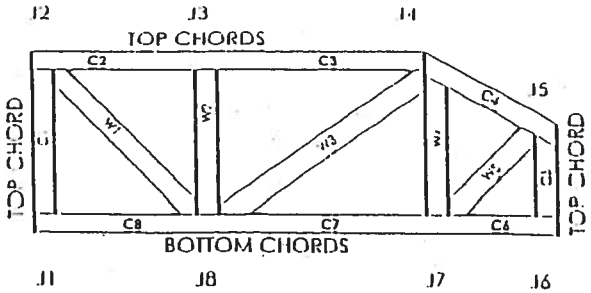
Indicates location of required continuous lateral bracing.

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-H
HER	561

MiTek Engineering Reference Sheet: MII-7473

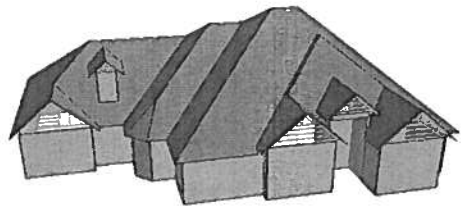
General Safety Notes

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.

ALL 9'-0" CLG'S EXCEPT WHERE NOTED.

1'-6" O/H



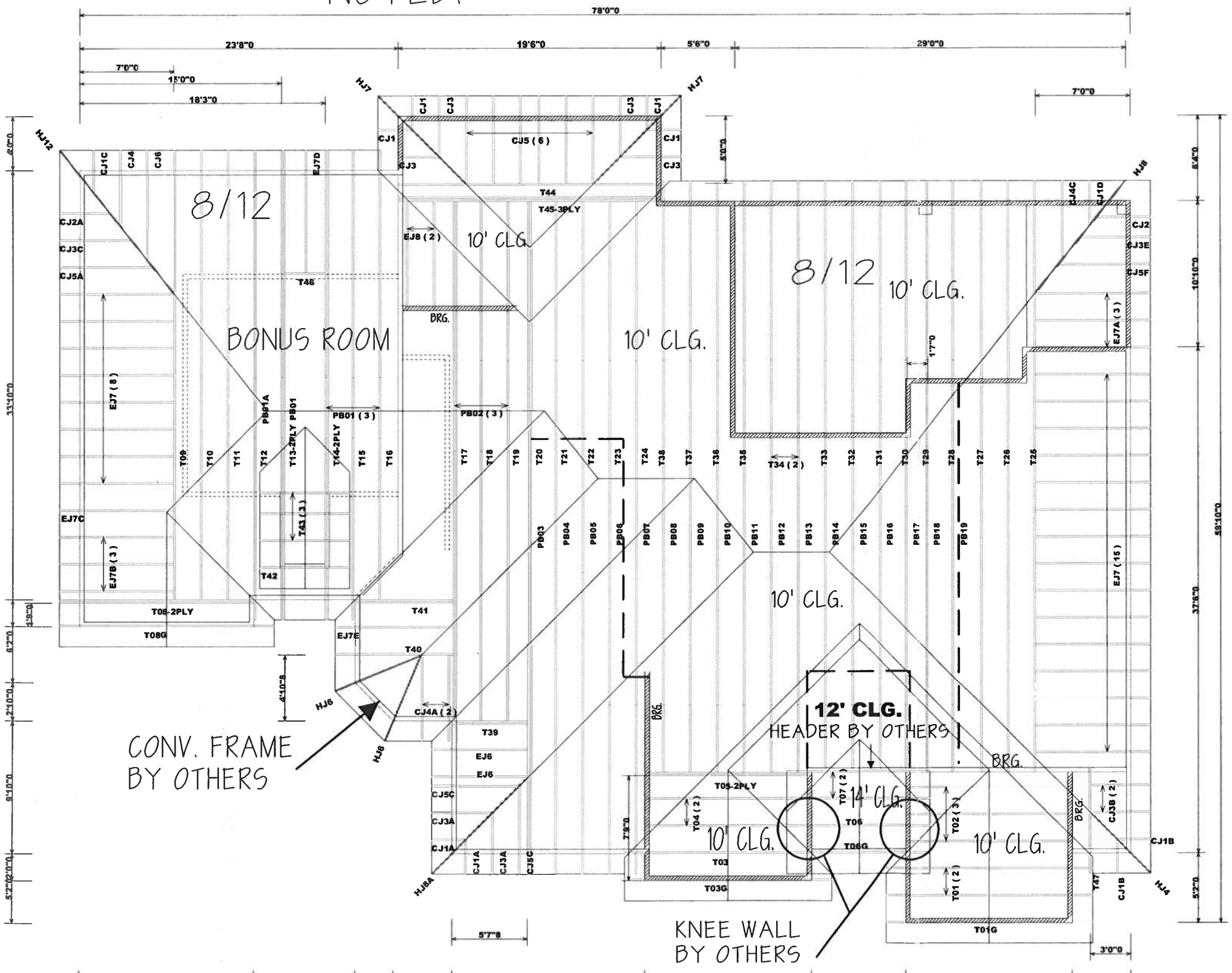
BEARING HEIGHT SCHEDULE

9'-0"

10'-0"

8/12

10/12



HANGERS

23-HTU26

4-HGUS28-2

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 V105 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 HUS26 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: COMPASS BUILDERS LOT 19

LEGAL ADDRESS: LAKE CITY

MODEL: CUSTOM

REVISION:

SCALE: NTS

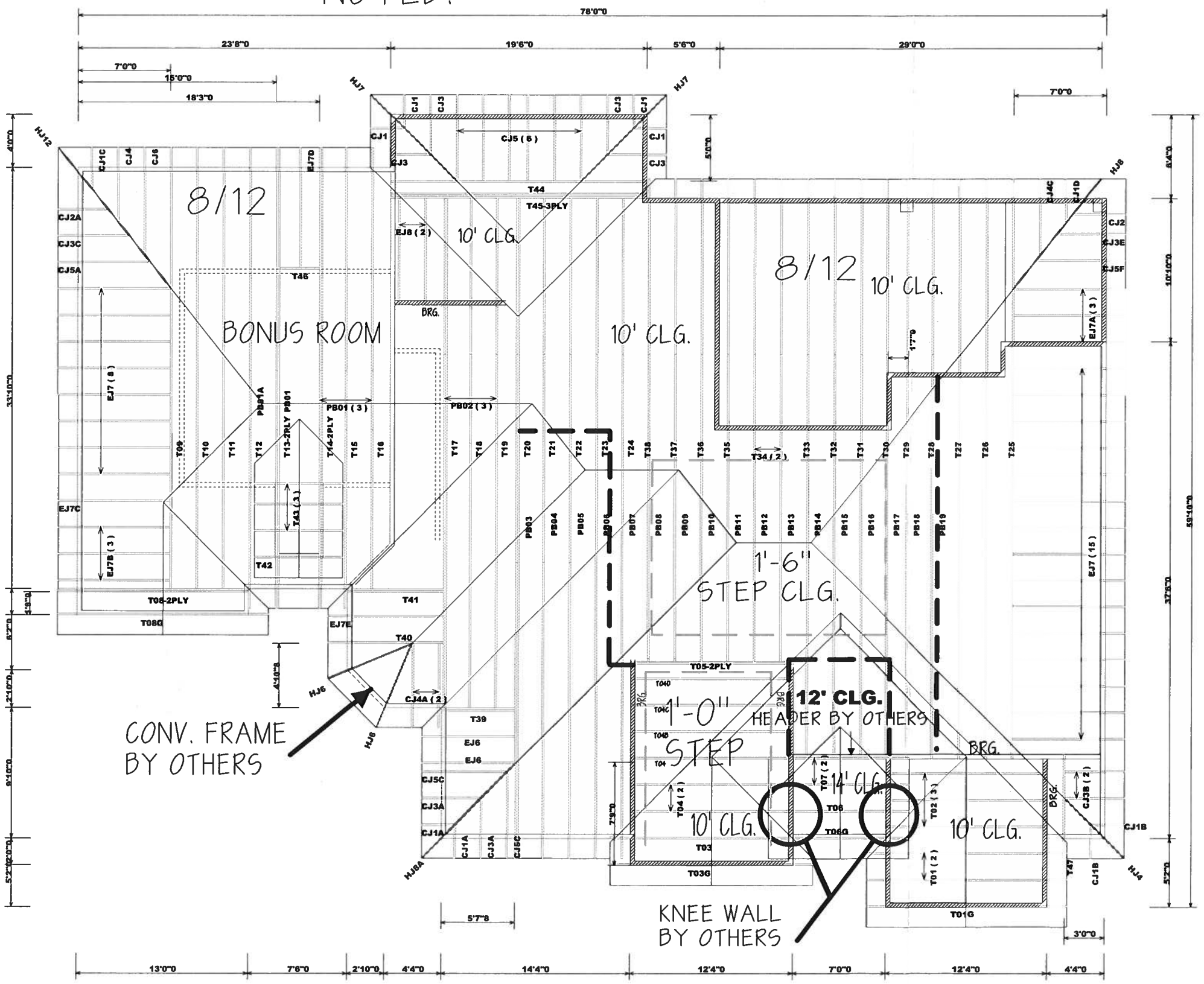
DATE: 4/13/2006

DRAWN BY: TJR

JOB #: L158379

ALL 9'-0" CLG'S EXCEPT WHERE NOTED.

1'-6" O/H



REVIEWED
13 SEP 06

HANGERS

23-HTU26
4-HGUS28-2

BEARING HEIGHT SCHEDULE

9'-0"

10'-0"

8/12
10/12

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 V105 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 HUS26 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: COMPASS BUILDERS LOT 19

LEGAL ADDRESS: LAKE CITY

MODEL: CUSTOM | REVISION: | SCALE: NTS

DATE: 6/15/2006 | DRAWN BY: TJR | JOB #: L158379