

DATE 04/18/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000024397

APPLICANT BRYAN ZECHER PHONE 752-8653
ADDRESS P.O. BOX 815 LAKE CITY FL 32056
OWNER NANCY ROGERS PHONE
ADDRESS 321 SW BISHOP AVE LAKE CITY FL 32024
CONTRACTOR BRYAN ZECHER PHONE 752-8653
LOCATION OF PROPERTY 47S, TR ON KING RD, TL ON BISHOP, 2ND LOT ON LEFT PAST KINGWOOD PLACE

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 130900.00
HEATED FLOOR AREA 2618.00 TOTAL AREA 3481.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/10 FLOOR SLAB
LAND USE & ZONING A-3 MAX. HEIGHT 18
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 35-4S-16-03282-012 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 1.35

CBC054575
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 06-0295-N BK JH Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE, ONE FOOT ABOVE THE ROAD

Check # or Cash 23949

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic
date/app. by date/app. by date/app. by
Under slab rough-in plumbing Slab Sheathing/Nailing
date/app. by date/app. by date/app. by
Framing Rough-in plumbing above slab and below wood floor
date/app. by date/app. by
Electrical rough-in Heat & Air Duct Peri. beam (Lintel)
date/app. by date/app. by date/app. by
Permanent power C.O. Final Culvert
date/app. by date/app. by date/app. by
M/H tie downs, blocking, electricity and plumbing Pool
date/app. by date/app. by
Reconnection Pump pole Utility Pole
date/app. by date/app. by date/app. by
M/H Pole Travel Trailer Re-roof
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 655.00 CERTIFICATION FEE \$ 17.41 SURCHARGE FEE \$ 17.41
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 \$ TOTAL FEE 764.82
INSPECTORS OFFICE CLERKS OFFICE

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 INCONVENIENCE, 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.

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0603-59 Date Received 3/16/06 By GA Permit # 24397
 Application Approved by - Zoning Official BLK Date 22.03.06 Plans Examiner DK JTH Date 4-14-06
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments SEE SITE PLAN LAST PAGE OF PLANS

Applicants Name Bryan Zecher Phone 758-8420
 Address P.O. Box 815 Lake City, FL 32056
 Owners Name Nancy Rogers Phone 752-8653
 911 Address 321 SW Bishop Ave, Lake City, FL 32024
 Contractors Name Bryan Zecher Construction, Inc. Phone 752-8653
 Address P.O. Box 815 Lake City, FL 32056
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Teena Ruffo / Mark Disasway
 Mortgage Lenders Name & Address 1st Federal
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 35-43-16-03282-012 Estimated Cost of Construction 200,000
 Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions Take 47 South under I-75 overpass. Turn Right on King's Road. Turn Left on Bishop Ave. Job is on left. 2nd lot past Kingwood Place on left.
 Type of Construction New Home/Addition Number of Existing Dwellings on Property 1
 Total Acreage 1.35 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 190' Side 25' Side 78' Rear 46'
 Total Building Height 18' Number of Stories 1 Heated Floor Area 2618 Roof Pitch 6/12
PORCHES 155 CAR PORT 708 TOTAL 3481

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 COMMENCEMENT 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.

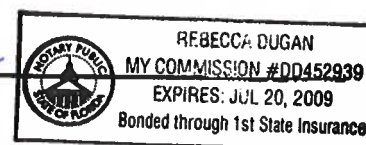
Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 16 day of March 20 06
 Personally known ✓ or Produced Identification _____

Contractor Signature _____
 Contractors License Number CB0054575
 Competency Card Number _____
 NOTARY STAMP/SEAL

Notary Signature



Columbia County Property Appraiser

DB Last Updated: 3/7/2006

Parcel: 35-4S-16-03282-012 HX WX

2006 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	ROGERS NANCY D &
Site Address	BISHOP
Mailing Address	GERALDINE A TOWNSEND (JTWS) 321 SW BISHOP AVE LAKE CITY, FL 32024
Brief Legal	BEG 1098.28 FT S OF NW COR OF SEC, RUN E 310 FT, S 192.72 FT, W 310.12 FT TO W LINE OF

Use Desc. (code)	SINGLE FAM (000100)
Neighborhood	35416.01
Tax District	3
UD Codes	MKTA01
Market Area	01
Total Land Area	1.350 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	\$17,550.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$43,507.00
XFOB Value	cnt: (4)	\$1,535.00
Total Appraised Value		\$62,592.00

Just Value	\$62,592.00
Class Value	\$0.00
Assessed Value	\$44,720.00
Exempt Value	(code: HX WX) \$25,500.00
Total Taxable Value	\$19,220.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
11/3/1997	848/693	WD	I	U	01	\$0.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1976	Common BRK (19)	1190	1336	\$43,507.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0258	PATIO	0	\$175.00	1.000	0 x 0 x 0	(.00)
0294	SHED WOOD/	1993	\$180.00	48.000	6 x 8 x 0	AP (50.00)
0166	CONC,PAVMT	1993	\$100.00	100.000	10 x 10 x 0	AP (50.00)
0294	SHED WOOD/	1993	\$1,080.00	144.000	12 x 12 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	1.350 AC	1.00/1.00/1.00/1.00	\$13,000.00	\$17,550.00

Columbia County Property Appraiser

DB Last Updated: 3/7/2006

Rogers

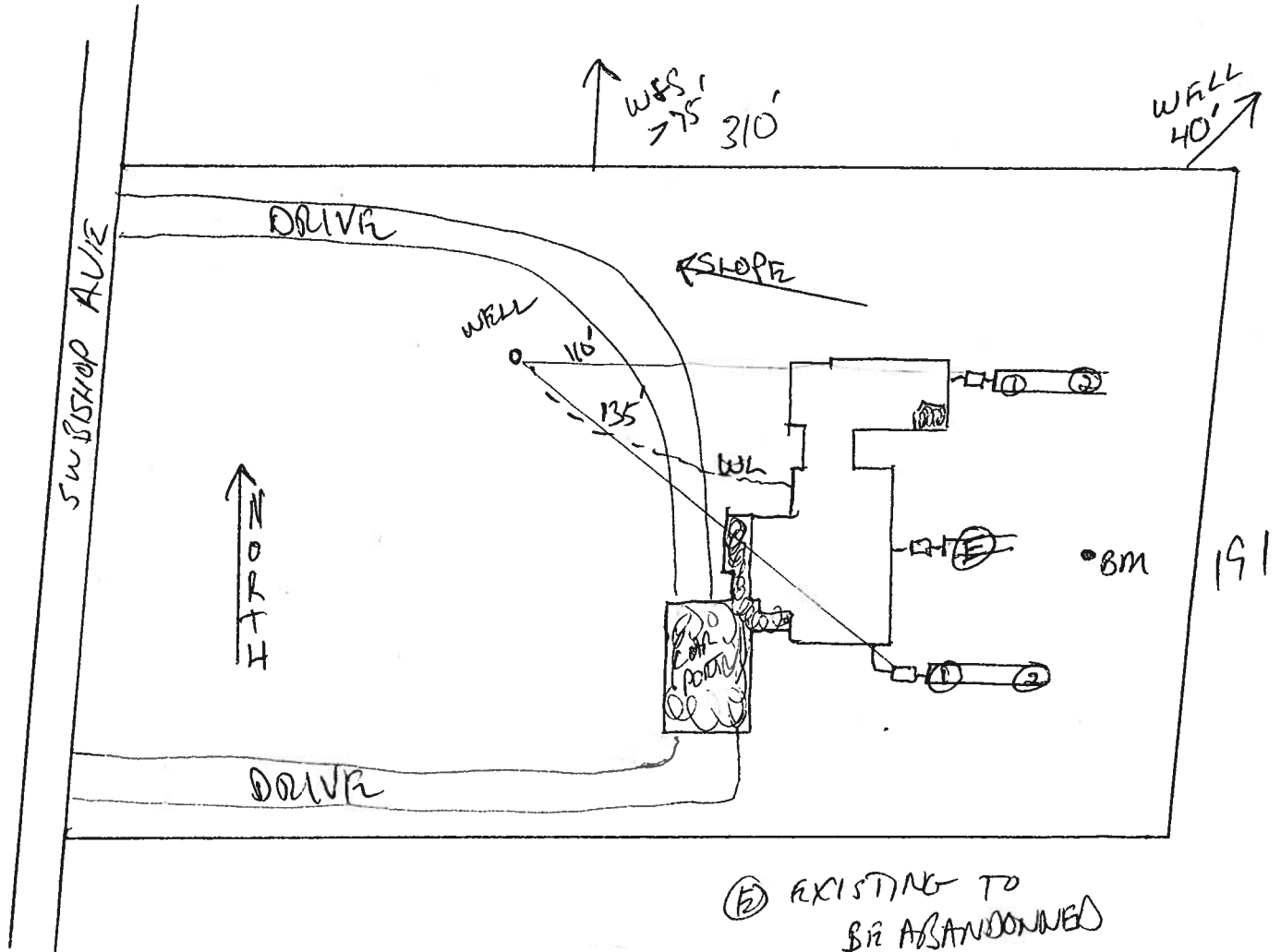
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0295N

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

Scale: 1 inch = 50 feet.



Notes: _____

Site Plan submitted by: *Roch D F*

Plan Approved *[initials]*

Not Approved _____

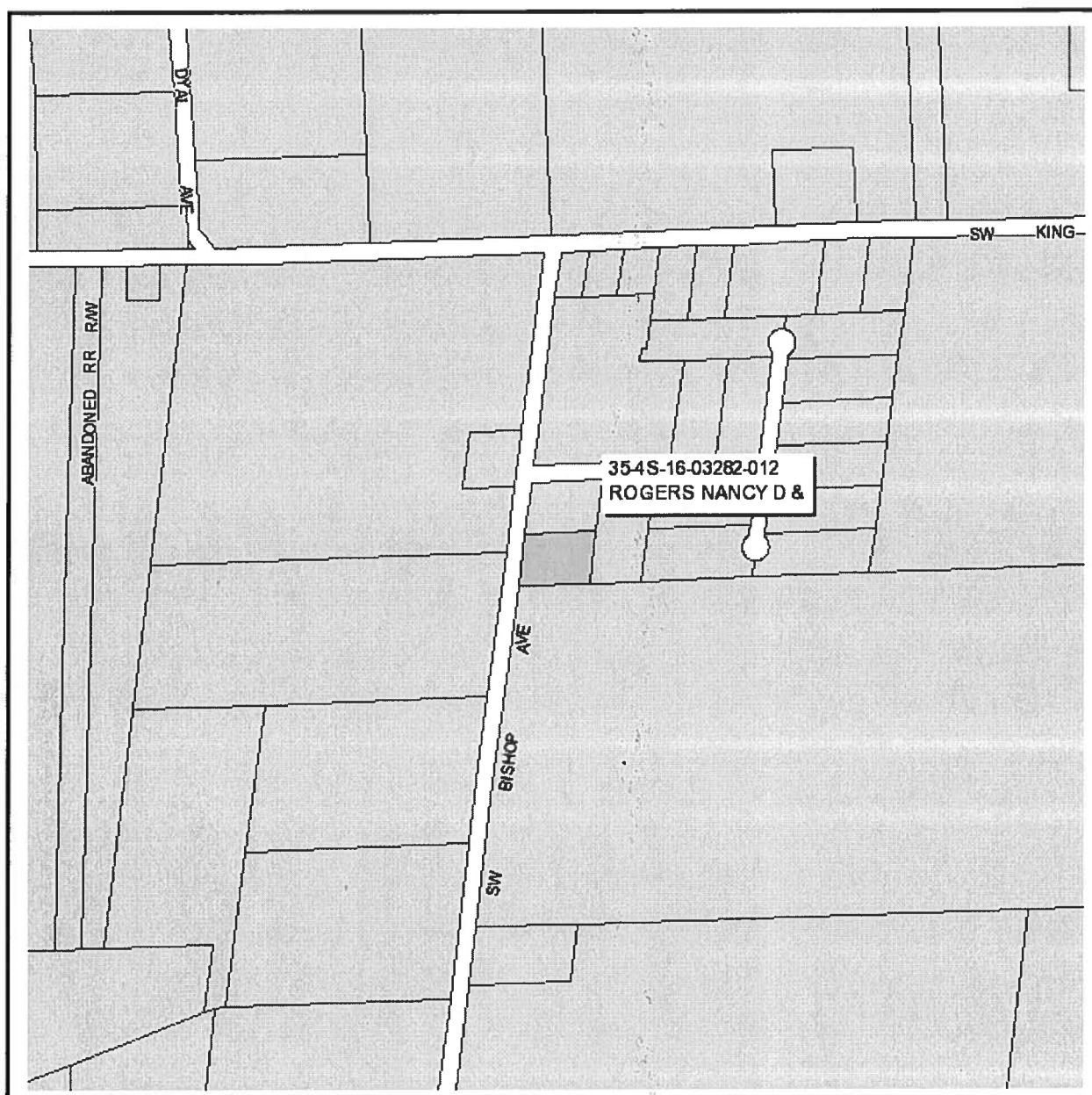
By *[initials]* *Columbia*

MASTER CONTRACTOR

Date *4/3/06*

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



Columbia County Property Appraiser

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

PARCEL: 35-4S-16-03282-012 HX WX - SINGLE FAM (000100)

BEG 1098.28 FT S OF NW COR OF SEC, RUN E 310 FT, S 192.72 FT, W 310.12 FT TO W LINE OF

Name: ROGERS NANCY D &	LandVal	\$17,550.00
Site: BISHOP	BldgVal	\$43,507.00
GERALDINE A TOWNSEND (JTWRS)	ApprVal	\$62,592.00
Mail: 321 SW BISHOP AVE	JustVal	\$62,592.00
LAKE CITY, FL 32024	Assd	\$44,720.00
Sales Info 11/3/1997 \$0.00 I / U	Exmpt	\$25,500.00
	Taxable	\$19,220.00

0 250 500 750 ft



This information, GIS Map Updated: 2/7/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.



APPROXIMATE SCALE IN FEET
2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290



COMMUNITY-PANEL NUMBER
120070 0175 B
EFFECTIVE DATE:
JANUARY 6, 1988



Federal Emergency Management Agency

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

THIS INSTRUMENT PREPARED BY
AND RETURN TO:
TITLE OFFICES, LLC
1089 SW MAIN BLVD.
LAKE CITY, FLORIDA 32025

Parcel I.D. #: 03282-012

Inst: 2006006252 Date: 03/14/2006 Time: 11:49

J. F. DC, P. DeWitt Cason, Columbia County B: 1077 P: 477

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORDING DATA

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713.13, Florida Statutes, the following information is provided in this Notice of Commencement. This Notice shall be void and of no force and effect if construction is not commenced within ninety (90) days after recordation.

1. Description of property: (Legal description of property, and street address if available)

321 SW BISHOP AVE., LAKE CITY, FLORIDA 32024

A PART OF THE NORTHWEST ¼ OF SECTION 35, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE NORTHWEST CORNER OF SAID SECTION 35 AND THENCE RUN SOUTH 08°52'00" WEST, ALONG THE WEST LINE OF SAID SECTION 35, A DISTANCE OF 1098.28 FEET TO THE POINT OF BEGINNING; THENCE RUN NORTH 89°25'10" EAST A DISTANCE OF 310.00 FEET (RECORD) NORTH 89°25'14" EAST A DISTANCE OF 310.18 FEET (ACTUAL) TO A POINT ON THE WESTERLY LINE OF LOT 11 OF KINGS WOOD SUBDIVISION, PLAT BOOK 4, PAGES 50 AND 50-A; THENCE RUN SOUTH 08°52'00" WEST A DISTANCE OF 190.72 FEET AND 192.72 FEET (RECORD) SOUTH 08°49'09" WEST A DISTANCE OF 192.13 FEET (ACTUAL); THENCE RUN SOUTH 89°33'45" WEST A DISTANCE OF 310.12 FEET (RECORD) SOUTH 89°32'53" WEST A DISTANCE OF 310.235 FEET (ACTUAL) TO THE WEST LINE OF SAID SECTION 35; THENCE RUN NORTH 08°52'00" EAST (ACTUAL AND RECORD), ALONG SAID WEST LINE, A DISTANCE OF 191.46 FEET (ACTUAL AND RECORD) TO THE POINT OF BEGINNING. SUBJECT TO: AN EASEMENT FOR ROAD RIGHT OF WAY ACROSS THE WEST 25 FEET THEREOF.

2. General description of improvement: construction of single family dwelling

3. Owner information:

- a. Name and address: **NANCY T. ROGERS**
321 SW BISHOP AVE., LAKE CITY, FLORIDA 32024
b. Interest in property: Fee Simple
c. Name and Address of Fee Simple Titleholder (if other than owner):

4. Contractor: (Name and Address)

BRYAN ZECHER CONSTRUCTION, INC.
465 NW ORANGE STREET, LAKE CITY, FLORIDA 32055
Telephone Number: (386) 752-8653

5. Surety (if any):

- a. Name and Address:
Telephone Number: _____
b. Amount of Bond \$ _____

6. Lender: (Name and Address)

FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HWY 90, P.O. BOX 2029, LAKE CITY, FL 32056
Telephone Number: 755-0600

7. Persons within the State of Florida designated by Owner upon whom notice or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: (Name and Address)
N/A

8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes: (Name and Address) **PAULA HACKER**
FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HWY 90, P.O. BOX 2029, LAKE CITY, FL 32056
Telephone Number: 755-0600

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

Nancy J. Rogers {SEAL}
NANCY T. ROGERS

X Geraldine Townsend {SEAL}
GERALDINE A. TOWNSEND

Sworn to and subscribed before me this 1st day of March, 2006, by NANCY T. ROGERS, who are personally known to me or who have produced _____

as identification.

Brenda Styons
Notary Public

My Commission Expires: _____



BRENDA STYONS
MY COMMISSION # DD 287986
EXPIRES: February 5, 2008
Bonded Thru Budget Notary Services

Inst:2006006252 Date:03/14/2006 Time:11:49
DC,P.DeWitt Cason,Columbia County B:1077 P:478

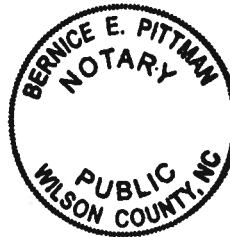
STATE OF
COUNTY OF

The foregoing instrument was acknowledged before me this 10th day of March, 2006, by Geraldine A. Townsend

who is personally known to me or who has produced N.C. Drivers License as identification and who did not take an oath.

Bernice E. Pittman
Notary Public

My Commission Expires: April 14, 2010



HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERSPHONE (904) 752-1854
FAX (904) 755-7022
~~XXXXXX~~
LAKE CITY, FLORIDA 32055
904 NW Main Blvd.

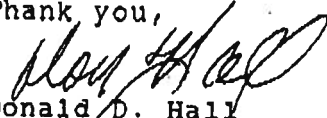
June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm 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

Notice of Treatment

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: BATA AVE
City: CC Phone: 752-1703

Site Location: Subdivision _____

Lot # _____ Block# _____ Permit # 24397

Address: 327 SW Bishop Ave

<u>Product used</u>	<u>Active Ingredient</u>	<u>% Concentration</u>
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☐ Premise	Imidacloprid	0.1%
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☐ Termidor	Fipronil	0.12%
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☒ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%
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Type treatment:

☐ Soil

☒ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

ADDITIONS

3481

784

4

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

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

6-23-06

Date

1100

Time

F254

Print Technician's Name

Remarks:

ADDITIONS ONLY

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	603017ZecherBryanRogersNancy	Builder:	Zecher
Address:	321 SW Bishop	Permitting Office:	Columbia
City, State:	Lake City, FL	Permit Number:	24397
Owner:	Rogers Nancy	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 54.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2618 ft²	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 54.0 kBtu/hr
a. U-factor:	Description Area		HSPF: 7.00
(or Single or Double DEFAULT) 7a. (Dble Default)	317.5 ft²	b. N/A	
b. SHGC:		c. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	317.5 ft²	14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 40.0 gallons
a. Slab-On-Grade Edge Insulation	R=0.0, 311.0(p) ft		EF: 0.93
b. N/A		b. N/A	
c. N/A		c. Conservation credits	
9. Wall types		(HR-Heat recovery, Solar	
a. Frame, Wood, Exterior	R=13.0, 1580.5 ft²	DHP-Dedicated heat pump)	
b. Concrete, Ext Insul, Exterior	R=19.0, 500.0 ft²	15. HVAC credits	
c. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		HF-Whole house fan,	
e. N/A		PT-Programmable Thermostat,	
10. Ceiling types		MZ-C-Multizone cooling,	
a. Under Attic	R=19.0, 2716.0 ft²	MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 260.0 ft		
b. N/A			

Glass/Floor Area: 0.12

Total as-built points: 37792

Total base points: 37866

PASS

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

PREPARED BY: Ben Jordan
DATE: 4-5-06

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

OWNER/AGENT: AA
DATE: 4/5/06

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

BUILDING OFFICIAL: _____
DATE: _____



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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 321 SW Bishop, Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	2618.0	20.04	9443.7	Double, Clear	E	1.5	6.5	36.0	42.06	0.93	1403.0
				Double, Clear	S	8.8	6.5	18.0	35.87	0.48	311.4
				Double, Clear	SE	10.0	8.0	10.0	42.75	0.45	194.1
				Double, Clear	E	8.5	6.5	18.0	42.06	0.46	345.4
				Double, Clear	E	1.5	2.0	9.0	42.06	0.59	224.5
				Double, Clear	N	1.5	5.5	15.0	19.20	0.93	267.3
				Double, Clear	E	1.5	5.5	15.0	42.06	0.90	565.5
				Double, Clear	E	1.5	3.5	4.5	42.06	0.78	146.8
				Double, Clear	E	1.5	3.5	9.0	42.06	0.78	293.6
				Double, Clear	S	1.5	0.0	9.0	35.87	0.43	139.4
				Double, Clear	S	1.5	0.0	15.0	35.87	0.43	232.4
				Double, Clear	S	1.5	5.5	20.0	35.87	0.83	597.0
				Double, Clear	W	5.4	5.5	40.0	38.52	0.53	822.9
				Double, Clear	N	1.5	5.5	20.0	19.20	0.93	356.4
				Double, Clear	W	1.5	5.5	15.0	38.52	0.90	518.3
				Double, Clear	W	1.5	5.5	15.0	38.52	0.90	518.3
				Double, Clear	W	1.4	3.5	9.0	38.52	0.80	275.9
				Double, Clear	W	1.5	4.5	16.0	38.52	0.85	523.6
				Double, Clear	N	1.5	6.5	24.0	19.20	0.95	436.6
				As-Built Total:		317.5			8172.4		
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		1580.5		1.50 2370.8	
Exterior	2080.5	1.70	3536.9	Concrete, Ext Insul, Exterior		19.0		500.0		0.00 0.0	
Base Total:				2080.5		3536.9		As-Built Total:		2080.5 2370.8	
DOOR TYPES				Area X BSPM = Points		Type		Area X SPM = Points			
Adjacent	0.0	0.00	0.0	Exterior Insulated		30.0		4.10		123.0	
Exterior	90.0	4.10	369.0	Exterior Insulated		60.0		4.10		246.0	
Base Total:				90.0		369.0		As-Built Total:		90.0 369.0	
CEILING TYPES				Area X BSPM = Points		Type		R-Value		Area X SPM X SCM = Points	
Under Attic	2618.0	1.73	4529.1	Under Attic		19.0		2716.0		2.34 X 1.00 6355.4	
Base Total:				2618.0		4529.1		As-Built Total:		2716.0 6355.4	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 321 SW Bishop, Lake City, FL,

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES Area X BSPM = Points				Type	R-Value	Area X SPM	= Points	
Slab	311.0(p)	-37.0	-11507.0	Slab-On-Grade Edge Insulation	0.0	311.0(p)	-41.20	-12813.2
Raised	0.0	0.00	0.0					
Base Total:			-11507.0	As-Built Total:		311.0	-12813.2	
INFILTRATION Area X BSPM = Points				Area X SPM = Points				
			2618.0	10.21				26729.8
			2618.0	10.21				26729.8
Summer Base Points: 33101.4				Summer As-Built Points: 31184.1				
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier = Cooling Points
33101.4	0.4266	14121.1	(sys 1: Central Unit 54000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
			31184	1.00	(1.09 x 1.147 x 0.91)	0.341	1.000	12108.8
			31184.1	1.00	1.138	0.341	1.000	12108.8

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 321 SW Bishop, Lake City, FL,

PERMIT #:

BASE				AS-BUILT						
GLASS TYPES										
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang					
					Ornt	Len	Hgt	Area X	WPM X	WOF = Points
.18	2618.0	12.74	6003.6	Double, Clear	E	1.5	6.5	36.0	18.79	1.03 697.3
				Double, Clear	S	8.8	6.5	18.0	13.30	3.17 758.4
				Double, Clear	SE	10.0	8.0	10.0	14.71	2.15 315.6
				Double, Clear	E	8.5	6.5	18.0	18.79	1.36 459.2
				Double, Clear	E	1.5	2.0	9.0	18.79	1.21 204.9
				Double, Clear	N	1.5	5.5	15.0	24.58	1.00 369.8
				Double, Clear	E	1.5	5.5	15.0	18.79	1.04 293.5
				Double, Clear	E	1.5	3.5	4.5	18.79	1.09 92.5
				Double, Clear	E	1.5	3.5	9.0	18.79	1.09 185.0
				Double, Clear	S	1.5	0.0	9.0	13.30	3.66 438.0
				Double, Clear	S	1.5	0.0	15.0	13.30	3.66 730.0
				Double, Clear	S	1.5	5.5	20.0	13.30	1.15 305.1
				Double, Clear	W	5.4	5.5	40.0	20.73	1.17 966.0
				Double, Clear	N	1.5	5.5	20.0	24.58	1.00 493.0
				Double, Clear	W	1.5	5.5	15.0	20.73	1.03 319.7
				Double, Clear	W	1.5	5.5	15.0	20.73	1.03 319.7
				Double, Clear	W	1.4	3.5	9.0	20.73	1.06 197.8
				Double, Clear	W	1.5	4.5	16.0	20.73	1.04 345.8
				Double, Clear	N	1.5	6.5	24.0	24.58	1.00 591.0
				As-Built Total:				317.5	8082.3	
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	1580.5	3.40	5373.7	
Exterior	2080.5	3.70	7697.9	Concrete, Ext Insul, Exterior		19.0	500.0	2.20	1100.0	
Base Total:				As-Built Total:				2080.5	6473.7	
DOOR TYPES										
Area X BWPM = Points				Type			Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Exterior Insulated			30.0	8.40	252.0	
Exterior	90.0	8.40	756.0	Exterior Insulated			60.0	8.40	504.0	
Base Total:				As-Built Total:				90.0	756.0	
CEILING TYPES										
Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points			
Under Attic	2618.0	2.05	5366.9	Under Attic		19.0	2716.0	2.70 X 1.00	7333.2	
Base Total:				As-Built Total:				2716.0	7333.2	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 321 SW Bishop, Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM	= Points		
Slab	311.0(p)	8.9	2767.9	Slab-On-Grade Edge Insulation	0.0	311.0(p)	18.80	5846.8	
Raised	0.0	0.00	0.0						
Base Total:			2767.9	As-Built Total:		311.0	5846.8		
INFILTRATION Area X BWPM = Points				Area X WPM = Points					
			2618.0	-0.59	-1544.6				
Winter Base Points:			21047.6		Winter As-Built Points:			26947.4	
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier = Heating Points	
				(sys 1: Electric Heat Pump 54000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
				26947.4	1.000	(1.069 x 1.169 x 0.93)	0.487	1.000	15256.3
21047.6	0.6274	13205.3		26947.4	1.00	1.162	0.487	1.000	15256.3

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 321 SW Bishop, Lake City, FL,

PERMIT #:

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

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points
14121		13205		10540		37866	12109		15256
							10427		37792

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 321 SW Bishop, 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 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.0

The higher the score, the more efficient the home.

Rogers Nancy, 321 SW Bishop, Lake City, FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 54.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2618 ft²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 54.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 317.5 ft²		HSPF: 7.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 317.5 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 311.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1580.5 ft²	(HR-Heat recovery, Solar	
b. Concrete, Ext Insul, Exterior	R=19.0, 500.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=19.0, 2716.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 260.0 ft		
b. N/A			

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: 4/6/06

Address of New Home: 321 SW Bishop Ave

City/FL Zip: LC, FL



*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 EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

COLUMBIA COUNTY DEPARTMENT OF BUILDING AND ZONING 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 35-4S-16-03282-012 Building permit No. 000024397

Use Classification SFD, UTILITY Fire: 0.00

Permit Holder BRYAN ZECHER Waste: 0.00

Owner of Building NANCY ROGERS Total: 0.00

Location: 321 SW BISHOP AVE, LAKE CITY, FL

Date: 10/19/2006



[Signature]
Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Mark Disosway, P.E.

POB 868, Lake City, FL 32056, Ph (386) 754-5419, Fax (386) 269-4871

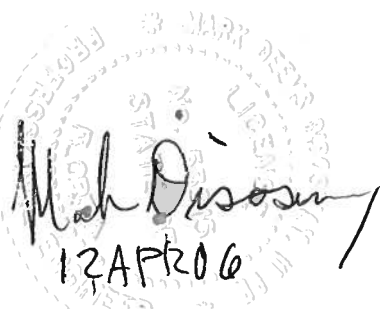
April 12, 2006

Building Department

Re: Permit # 0603-59, Zecher Bryan, Rogers, Nancy Addition, 321 SW Bishop Lake City, Florida 32024

Dear Building Official:

We have reviewed the plans and made the necessary adjustments; the shearwall has been split up into separate tables. The method to attach the existing slab to the new slab has been called out on S-2.



Mark Disosway, PE
Florida Registered Professional Engineer

Cc Bryan Zecher

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

0603-59

Reference to a building permit application Number:

Bryan Zecher Owner Nancy Rogers 321 SW Bishop Ave.

On the date of March 22, 2006 application 0603-59 and plans for construction of a addition onto an existing single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0603-59 when making reference to this application.

1. Please have Mr. Disosway show compliance with the Chapter 9 of the Florida Existing Building Code , Additions section 901 general: Scope: An addition to a building or structure shall comply with the building, plumbing, electrical, and mechanical codes, without requiring the existing building or structure to comply with any requirements of those codes or of these provisions.

903.3 The lateral-force-resisting system of existing buildings to which additions are made shall comply with Sections 903.3.1, 903.3.2, and 903.3.3.

Exceptions:

1. In Type V construction, Group R occupancies where the lateral-force story shears in any story is not increased by more than 10 percent.
2. Buildings of Group R occupancy with no more than five dwelling units or sleeping units used solely for residential purposes where the existing

building and the addition comply with the conventional light-frame construction methods as defined in Chapter 2.

3. Additions where the lateral-force story shear in any story is not increased by more than 5 percent.

Horizontal addition: 903.3.2 Where horizontal additions are structurally connected to an existing structure, all lateral-force-resisting elements of the existing structure affected by such addition shall comply with the lateral load provisions of the Florida Building Code, Building. Lateral loads imposed on the elements of the existing structure and the addition shall be determined by a relative stiffness analysis of the combined structure including torsional effects.

904.1 Smoke alarms in an addition.

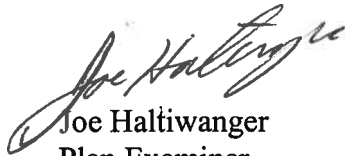
Whenever an addition is made to a building or structure of a Group R-3 or R-4 occupancy, hardwired, interconnected smoke alarms meeting the requirements of the Florida Building Code, Building or the Florida Building Code, Residential shall be installed and maintained in the addition.

904.2: Smoke alarms in existing portions of a building. Whenever an addition is made to a building or structure of a Group R-3 or R-4 occupancy, the existing building shall be provided with smoke alarms as required by the Florida Building Code, Building or the Florida Building Code, Residential as applicable. The smoke alarms in the existing building are not required to be interconnected with smoke alarms in other portions of the base building.

Energy Conservation sections 906: 906.1 Minimum requirements. Additions to existing buildings or structures shall comply with the requirements of Chapter 13 of the Florida Building Code, Building.

Please show the method in which the new foundation will be joined into the existing foundation.

Thank you,

A handwritten signature in black ink, appearing to read "Joe Haltiwanger", is written over the printed name.

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

Residential System Sizing Calculation

Summary

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

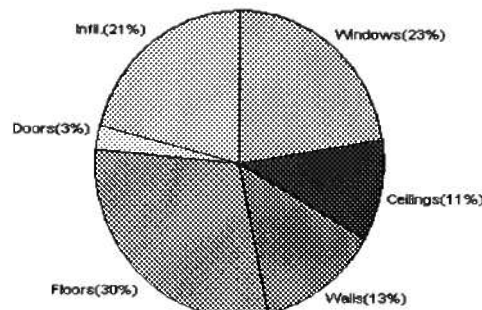
4/5/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	45262 Btuh	Total cooling load calculation	37436 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.3 54000	Sensible (SHR = 0.75)	128.6 40500
Heat Pump + Auxiliary(0.0kW)	119.3 54000	Latent	227.4 13500
		Total (Electric Heat Pump)	144.2 54000

WINTER CALCULATIONS

Winter Heating Load (for 2618 sqft)

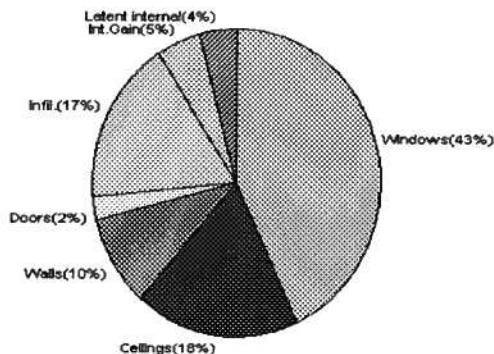
Load component			Load	
Window total	318	sqft	10220	Btuh
Wall total	2081	sqft	6040	Btuh
Door total	90	sqft	1166	Btuh
Ceiling total	2716	sqft	4926	Btuh
Floor total	311	sqft	13578	Btuh
Infiltration	230	cfm	9332	Btuh
Duct loss			0	Btuh
Subtotal			45262	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			45262	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2618 sqft)

Load component			Load	
Window total	318	sqft	16041	Btuh
Wall total	2081	sqft	3604	Btuh
Door total	90	sqft	882	Btuh
Ceiling total	2716	sqft	6923	Btuh
Floor total			0	Btuh
Infiltration	119	cfm	2209	Btuh
Internal gain			1840	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			31499	Btuh
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			4337	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			5937	Btuh
TOTAL HEAT GAIN			37436	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 4-5-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

4/5/2006

Component Loads for Whole House						
Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
2	2, Clear, Metal, 0.87	NE	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	N	10.0		32.2	322 Btuh
4	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
5	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
6	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
7	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
8	2, Clear, Metal, 0.87	NW	4.5		32.2	145 Btuh
9	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
10	2, Clear, Metal, 0.87	NE	9.0		32.2	290 Btuh
11	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
12	2, Clear, Metal, 0.87	NE	20.0		32.2	644 Btuh
13	2, Clear, Metal, 0.87	SE	40.0		32.2	1288 Btuh
14	2, Clear, Metal, 0.87	SW	20.0		32.2	644 Btuh
15	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
16	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
17	2, Clear, Metal, 0.87	SE	9.0		32.2	290 Btuh
18	2, Clear, Metal, 0.87	SE	16.0		32.2	515 Btuh
19	2, Clear, Metal, 0.87	SW	24.0		32.2	773 Btuh
	Window Total		318(sqft)			10220 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1581		3.3	5190 Btuh
2	Concrete Blk, - Ext(0.05)	19.0	500		1.7	850 Btuh
	Wall Total		2081			6040 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		60		12.9	777 Btuh
2	Insulated - Exterior		30		12.9	388 Btuh
	Door Total		90			1166Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	19.0	2716		1.8	4926 Btuh
	Ceiling Total		2716			4926Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	311.0	ft(p)	43.7	13578 Btuh
	Floor Total		311			13578 Btuh
	Zone Envelope Subtotal:					35930 Btuh
Infiltration	Type	ACH	X	Zone Volume	CFM=	
	Natural	0.66		20944	230.4	9332 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

4/5/2006

Zone #1	Sensible Zone Subtotal	45262 Btuh
---------	------------------------	------------

WHOLE HOUSE TOTALS

	Subtotal Sensible	45262 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	45262 Btuh

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

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

4/5/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
2	2, Clear, Metal, 0.87	NE	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	N	10.0		32.2	322 Btuh
4	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
5	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
6	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
7	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
8	2, Clear, Metal, 0.87	NW	4.5		32.2	145 Btuh
9	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
10	2, Clear, Metal, 0.87	NE	9.0		32.2	290 Btuh
11	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
12	2, Clear, Metal, 0.87	NE	20.0		32.2	644 Btuh
13	2, Clear, Metal, 0.87	SE	40.0		32.2	1288 Btuh
14	2, Clear, Metal, 0.87	SW	20.0		32.2	644 Btuh
15	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
16	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
17	2, Clear, Metal, 0.87	SE	9.0		32.2	290 Btuh
18	2, Clear, Metal, 0.87	SE	16.0		32.2	515 Btuh
19	2, Clear, Metal, 0.87	SW	24.0		32.2	773 Btuh
Window Total			318(sqft)			10220 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1581		3.3	5190 Btuh
2	Concrete Blk, - Ext(0.05)	19.0	500		1.7	850 Btuh
Wall Total			2081			6040 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		60		12.9	777 Btuh
2	Insulated - Exterior		30		12.9	388 Btuh
Door Total			90			1166Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	19.0	2716		1.8	4926 Btuh
Ceiling Total			2716			4926Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	311.0 ft(p)		43.7	13578 Btuh
Floor Total			311			13578 Btuh
Zone Envelope Subtotal:						35930 Btuh
Infiltration	Type	ACH	Zone Volume		CFM=	
	Natural	0.66	20944		230.4	9332 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

4/5/2006

Zone #1	Sensible Zone Subtotal	45262 Btuh
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WHOLE HOUSE TOTALS

	Subtotal Sensible	45262 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	45262 Btuh

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

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

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

4/5/2006

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161	Btuh
2	2, Clear, 0.87, None,N,N	NE	8.83	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
3	2, Clear, 0.87, None,N,N	N	10ft.	8ft.	10.0	0.0	10.0	29	29	290	Btuh
4	2, Clear, 0.87, None,N,N	NW	8.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	2ft.	9.0	0.0	9.0	29	60	540	Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
7	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
8	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	4.5	0.0	4.5	29	60	270	Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
10	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	9.0	0.0	9.0	29	60	540	Btuh
11	2, Clear, 0.87, B-D, N,N	NE	1.5ft.	0ft.	15.0	0.0	15.0	23	51	765	Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
13	2, Clear, 0.87, None,N,N	SE	5.41	5.5ft.	40.0	40.0	0.0	29	63	1158	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979	Btuh
15	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
16	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
17	2, Clear, 0.87, None,N,N	SE	1.41	3.5ft.	9.0	5.6	3.4	29	63	373	Btuh
18	2, Clear, 0.87, None,N,N	SE	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729	Btuh
19	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	24.0	8.1	15.9	29	63	1229	Btuh
Window Total					318 (sqft)					16041 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1580.5			2.1		3297 Btuh	
2	Concrete Blk, - Ext	19.0/0.05			500.0			0.6		308 Btuh	
Wall Total					2081 (sqft)					3604 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				60.0			9.8		588 Btuh	
2	Insulated - Exterior				30.0			9.8		294 Btuh	
Door Total					90 (sqft)					882 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	19.0			2716.0			2.5		6923 Btuh	
Ceiling Total					2716 (sqft)					6923 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			311 (ft(p))			0.0		0 Btuh	
Floor Total					311.0 (sqft)					0 Btuh	
Zone Envelope Subtotal:										27450 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
SensibleNatural		0.34			20944			118.7		2209 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
		8			X 230 +			0		1840 Btuh	
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										31499 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

4/5/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	31499 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	31499 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	31499 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4337 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5937 Btuh
	TOTAL GAIN	37436 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

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

4/5/2006

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161	Btuh
2	2, Clear, 0.87, None,N,N	NE	8.83	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
3	2, Clear, 0.87, None,N,N	N	10ft.	8ft.	10.0	0.0	10.0	29	29	290	Btuh
4	2, Clear, 0.87, None,N,N	NW	8.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	2ft.	9.0	0.0	9.0	29	60	540	Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
7	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
8	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	4.5	0.0	4.5	29	60	270	Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
10	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	9.0	0.0	9.0	29	60	540	Btuh
11	2, Clear, 0.87, B-D, N,N	NE	1.5ft.	0ft.	15.0	0.0	15.0	23	51	765	Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
13	2, Clear, 0.87, None,N,N	SE	5.41	5.5ft.	40.0	40.0	0.0	29	63	1158	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979	Btuh
15	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
16	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
17	2, Clear, 0.87, None,N,N	SE	1.41	3.5ft.	9.0	5.6	3.4	29	63	373	Btuh
18	2, Clear, 0.87, None,N,N	SE	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729	Btuh
19	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	24.0	8.1	15.9	29	63	1229	Btuh
Window Total					318 (sqft)					16041 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09		1580.5			2.1		3297 Btuh		
2	Concrete Blk, - Ext	19.0/0.05		500.0			0.6		308 Btuh		
Wall Total					2081 (sqft)					3604 Btuh	
Doors	Type			Area (sqft)			HTM		Load		
1	Insulated - Exterior			60.0			9.8		588 Btuh		
2	Insulated - Exterior			30.0			9.8		294 Btuh		
Door Total					90 (sqft)					882 Btuh	
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	19.0		2716.0			2.5		6923 Btuh		
Ceiling Total					2716 (sqft)					6923 Btuh	
Floors	Type	R-Value		Size			HTM		Load		
1	Slab On Grade	0.0		311 (ft(p))			0.0		0 Btuh		
Floor Total					311.0 (sqft)					0 Btuh	
Zone Envelope Subtotal:										27450 Btuh	
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural	0.34		20944			118.7		2209 Btuh		
Internal gain	Occupants		Btuh/occupant			Appliance		Load			
	8		X 230 +			0		1840 Btuh			
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										31499 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

4/5/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	31499 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	31499 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	31499 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4337 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5937 Btuh
	TOTAL GAIN	37436 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

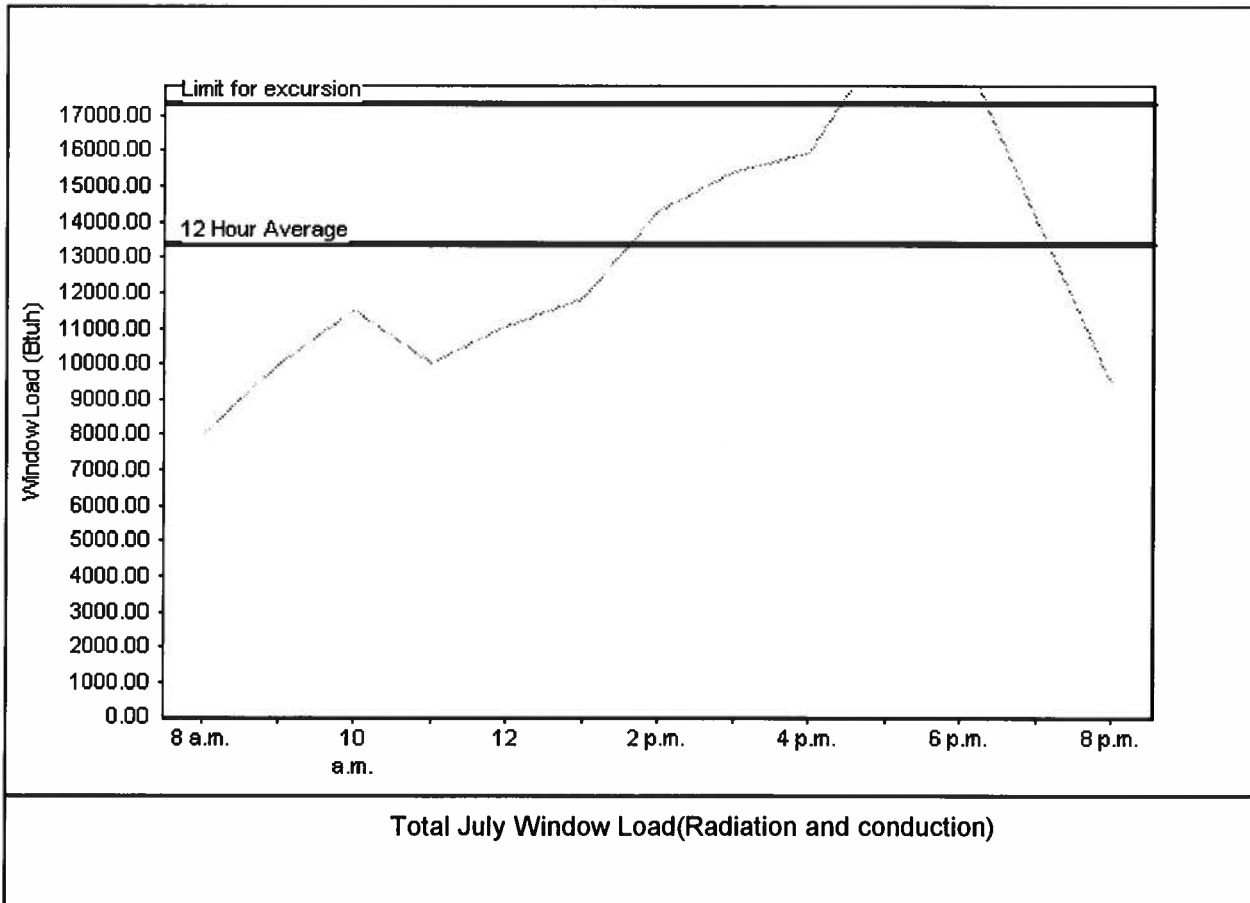
Class 3 Rating
Registration No. 0
Climate: North

4/5/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	13352 Btu
Summer setpoint	75 F	Peak window load for July	19392 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	17357 Btu
Latitude	29 North	Window excursion (July)	2035 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *Y. Zecher*

DATE: *4-5-06*

EnergyGauge® FLR2PB v4.1



PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital / Jordan		FL 675 / FL 1318-R1
2. Horizontal Slider	" "		FL 685 / FL 1384-R1
3. Casement	—		
4. Double Hung	—		
5. Fixed	C/J		FL 681 / FL 1383-R1
6. Awning	—		
7. Pass-through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11. Dual Action	—		
12. Other			
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4968
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	EIK / Certainfeed		FL 728-R1 / FL 250-R1
2. Underlayments	Felt		FL 1814
3. Roofing Fasteners	Nails		ROM 3378
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		

Residential System Sizing Calculation

Summary

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

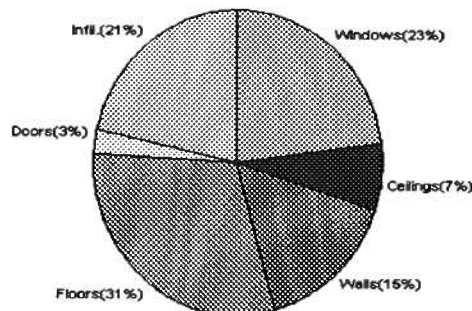
3/10/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	44329 Btuh	Total cooling load calculation	35746 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.3 52000	Sensible (SHR = 0.75)	130.8 39000
Heat Pump + Auxiliary(0.0kW)	117.3 52000	Latent	219.0 13000
		Total (Electric Heat Pump)	145.5 52000

WINTER CALCULATIONS

Winter Heating Load (for 2618 sqft)

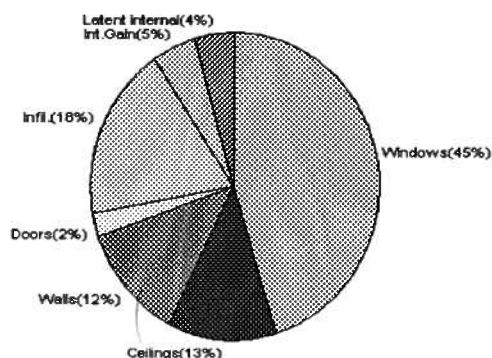
Load component	Load
Window total 318 sqft	10220 Btuh
Wall total 2081 sqft	6832 Btuh
Door total 90 sqft	1166 Btuh
Ceiling total 2716 sqft	3200 Btuh
Floor total 311 sqft	13578 Btuh
Infiltration 230 cfm	9332 Btuh
Duct loss	0 Btuh
Subtotal	44329 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	44329 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2618 sqft)

Load component	Load
Window total 318 sqft	16041 Btuh
Wall total 2081 sqft	4340 Btuh
Door total 90 sqft	882 Btuh
Ceiling total 2716 sqft	4498 Btuh
Floor total	0 Btuh
Infiltration 119 cfm	2209 Btuh
Internal gain	1840 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	29809 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	4337 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1600 Btuh
Total latent gain	5937 Btuh
TOTAL HEAT GAIN	35746 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *Y. Zecher*

DATE: *3-10-06*

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

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

3/10/2006

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
2	2, Clear, Metal, 0.87	NE	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	N	10.0		32.2	322 Btuh
4	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
5	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
6	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
7	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
8	2, Clear, Metal, 0.87	NW	4.5		32.2	145 Btuh
9	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
10	2, Clear, Metal, 0.87	NE	9.0		32.2	290 Btuh
11	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
12	2, Clear, Metal, 0.87	NE	20.0		32.2	644 Btuh
13	2, Clear, Metal, 0.87	SE	40.0		32.2	1288 Btuh
14	2, Clear, Metal, 0.87	SW	20.0		32.2	644 Btuh
15	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
16	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
17	2, Clear, Metal, 0.87	SE	9.0		32.2	290 Btuh
18	2, Clear, Metal, 0.87	SE	16.0		32.2	515 Btuh
19	2, Clear, Metal, 0.87	SW	24.0		32.2	773 Btuh
Window Total			318(sqft)			10220 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2081		3.3	6832 Btuh
Wall Total			2081			6832 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		60		12.9	777 Btuh
2	Insulated - Exterior		30		12.9	388 Btuh
Door Total			90			1166Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2716		1.2	3200 Btuh
Ceiling Total			2716			3200Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	311.0 ft(p)		43.7	13578 Btuh
Floor Total			311			13578 Btuh
Zone Envelope Subtotal:						34997 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	
	Natural	0.66	20944		230.4	9332 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					44329 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

3/10/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	44329 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	44329 Btuh

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

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



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

3/10/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	36.0		32.2	1159 Btuh
2	2, Clear, Metal, 0.87	NE	18.0		32.2	579 Btuh
3	2, Clear, Metal, 0.87	N	10.0		32.2	322 Btuh
4	2, Clear, Metal, 0.87	NW	18.0		32.2	579 Btuh
5	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
6	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
7	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
8	2, Clear, Metal, 0.87	NW	4.5		32.2	145 Btuh
9	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
10	2, Clear, Metal, 0.87	NE	9.0		32.2	290 Btuh
11	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
12	2, Clear, Metal, 0.87	NE	20.0		32.2	644 Btuh
13	2, Clear, Metal, 0.87	SE	40.0		32.2	1288 Btuh
14	2, Clear, Metal, 0.87	SW	20.0		32.2	644 Btuh
15	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
16	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
17	2, Clear, Metal, 0.87	SE	9.0		32.2	290 Btuh
18	2, Clear, Metal, 0.87	SE	16.0		32.2	515 Btuh
19	2, Clear, Metal, 0.87	SW	24.0		32.2	773 Btuh
Window Total			318(sqft)			10220 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	2081		3.3	6832 Btuh
Wall Total			2081			6832 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		60		12.9	777 Btuh
2	Insulated - Exterior		30		12.9	388 Btuh
Door Total			90			1166Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2716		1.2	3200 Btuh
Ceiling Total			2716			3200Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	311.0 ft(p)		43.7	13578 Btuh
Floor Total			311			13578 Btuh
Zone Envelope Subtotal:						34997 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	
	Natural	0.66	20944		230.4	9332 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					44329 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

3/10/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	44329 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	44329 Btuh

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

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

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

3/10/2006

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

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161	Btuh	
2	2, Clear, 0.87, None,N,N	NE	8.83	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh	
3	2, Clear, 0.87, None,N,N	N	10ft.	8ft.	10.0	0.0	10.0	29	29	290	Btuh	
4	2, Clear, 0.87, None,N,N	NW	8.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh	
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	2ft.	9.0	0.0	9.0	29	60	540	Btuh	
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh	
7	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh	
8	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	4.5	0.0	4.5	29	60	270	Btuh	
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh	
10	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	9.0	0.0	9.0	29	60	540	Btuh	
11	2, Clear, 0.87, B-D, N,N	NE	1.5ft.	0ft.	15.0	0.0	15.0	23	51	765	Btuh	
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh	
13	2, Clear, 0.87, None,N,N	SE	5.41	5.5ft.	40.0	40.0	0.0	29	63	1158	Btuh	
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979	Btuh	
15	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh	
16	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh	
17	2, Clear, 0.87, None,N,N	SE	1.41	3.5ft.	9.0	5.6	3.4	29	63	373	Btuh	
18	2, Clear, 0.87, None,N,N	SE	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729	Btuh	
19	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	24.0	8.1	15.9	29	63	1229	Btuh	
	Window Total				318 (sqft)					16041 Btuh		
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load				
1	Frame - Wood - Ext	13.0/0.09		2080.5		2.1		4340 Btuh				
	Wall Total				2081 (sqft)				4340 Btuh			
Doors	Type			Area (sqft)		HTM		Load				
1	Insulated - Exterior			60.0		9.8		588 Btuh				
2	Insulated - Exterior			30.0		9.8		294 Btuh				
	Door Total				90 (sqft)				882 Btuh			
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load				
1	Vented Attic/DarkShingle	30.0		2716.0		1.7		4498 Btuh				
	Ceiling Total				2716 (sqft)				4498 Btuh			
Floors	Type	R-Value		Size		HTM		Load				
1	Slab On Grade	0.0		311 (ft(p))		0.0		0 Btuh				
	Floor Total				311.0 (sqft)				0 Btuh			
	Zone Envelope Subtotal:									25760 Btuh		
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load				
	SensibleNatural	0.34		20944		118.7		2209 Btuh				
Internal gain	Occupants		Btuh/occupant		Appliance		Load					
	8		X 230 +		0		1840 Btuh					
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh		
	Sensible Zone Load									29809 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

3/10/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	29809 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	29809 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	29809 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4337 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5937 Btuh
	TOTAL GAIN	35746 Btuh

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

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

3/10/2006

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	36.0	0.0	36.0	29	60	2161	Btuh
2	2, Clear, 0.87, None,N,N	NE	8.83	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
3	2, Clear, 0.87, None,N,N	N	10ft.	8ft.	10.0	0.0	10.0	29	29	290	Btuh
4	2, Clear, 0.87, None,N,N	NW	8.5ft.	6.5ft.	18.0	0.0	18.0	29	60	1081	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	2ft.	9.0	0.0	9.0	29	60	540	Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
7	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
8	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	4.5	0.0	4.5	29	60	270	Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	3.5ft.	9.0	0.0	9.0	29	60	540	Btuh
10	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	9.0	0.0	9.0	29	60	540	Btuh
11	2, Clear, 0.87, B-D, N,N	NE	1.5ft.	0ft.	15.0	0.0	15.0	23	51	765	Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
13	2, Clear, 0.87, None,N,N	SE	5.41	5.5ft.	40.0	40.0	0.0	29	63	1158	Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	20.0	8.1	11.9	29	63	979	Btuh
15	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
16	2, Clear, 0.87, None,N,N	SE	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734	Btuh
17	2, Clear, 0.87, None,N,N	SE	1.41	3.5ft.	9.0	5.6	3.4	29	63	373	Btuh
18	2, Clear, 0.87, None,N,N	SE	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729	Btuh
19	2, Clear, 0.87, None,N,N	SW	1.5ft.	6.5ft.	24.0	8.1	15.9	29	63	1229	Btuh
	Window Total				318 (sqft)					16041 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09		2080.5			2.1		4340 Btuh		
	Wall Total				2081 (sqft)					4340 Btuh	
Doors	Type			Area (sqft)			HTM		Load		
1	Insulated - Exterior			60.0			9.8		588 Btuh		
2	Insulated - Exterior			30.0			9.8		294 Btuh		
	Door Total				90 (sqft)					882 Btuh	
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	30.0		2716.0			1.7		4498 Btuh		
	Ceiling Total				2716 (sqft)					4498 Btuh	
Floors	Type	R-Value		Size			HTM		Load		
1	Slab On Grade	0.0		311 (ft(p))			0.0		0 Btuh		
	Floor Total				311.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:									25760 Btuh	
Infiltration	Type	ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural	0.34		20944			118.7		2209 Btuh		
Internal gain	Occupants		Btuh/occupant			Appliance		Load			
	8		X 230 +			0		1840 Btuh			
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									29809 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

Class 3 Rating
Registration No. 0
Climate: North

3/10/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	29809 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	29809 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	29809 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4337 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5937 Btuh
	TOTAL GAIN	35746 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Rogers Nancy
321 SW Bishop
Lake City, FL

Project Title:
603017ZecherBryanRogersNancy

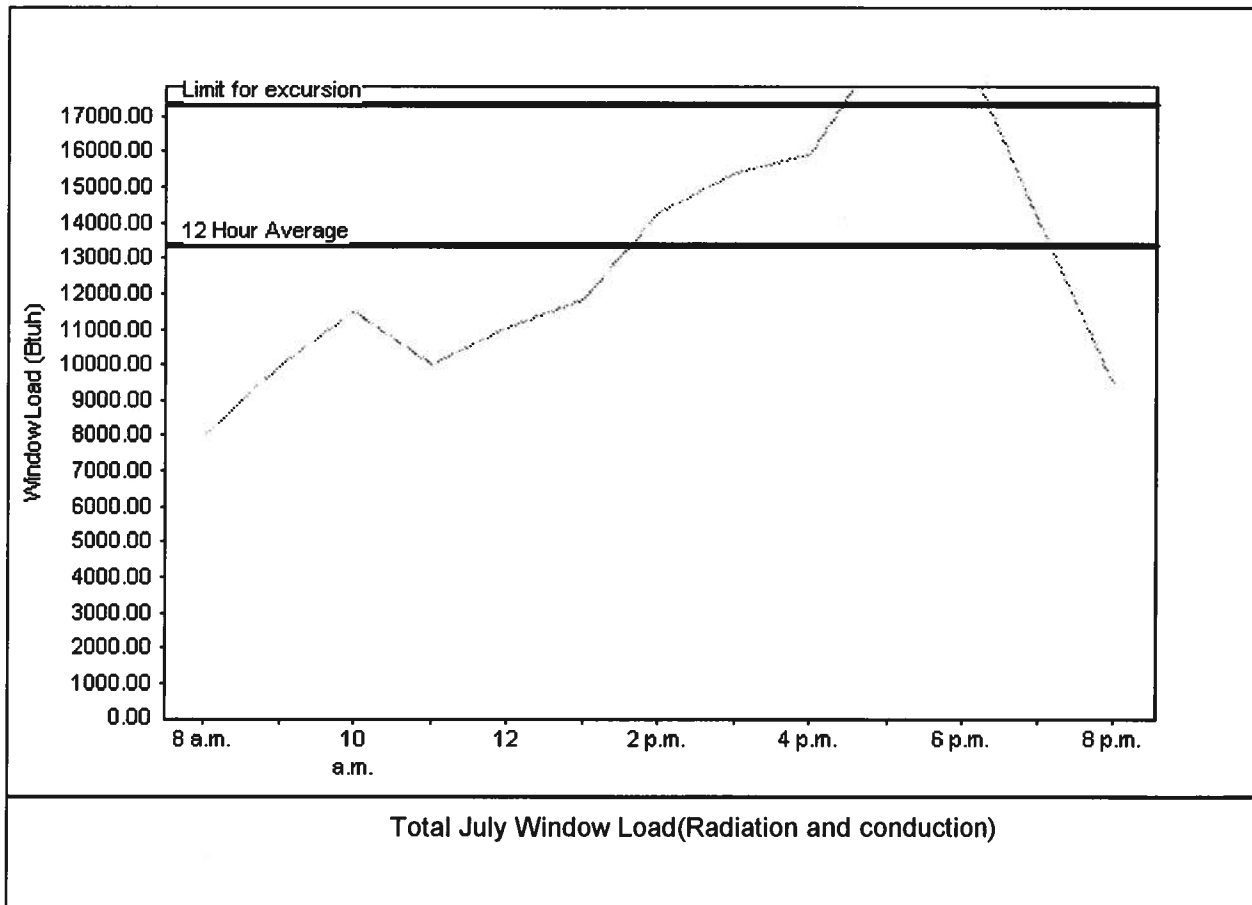
Class 3 Rating
Registration No. 0
Climate: North

3/10/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	13352 Btu
Summer setpoint	75 F	Peak window load for July	19392 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	17357 Btu
Latitude	29 North	Window excursion (July)	2035 Btuh

WINDOW Average and Peak Loads



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

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *[Signature]*

DATE: *3-10-06*

EnergyGauge® FLR2PB v4.1



**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**

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.
☒	☐	<u>Site Plan including:</u>
		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.
☒	☐	<u>Wind-load Engineering Summary, calculations and any details required</u>
		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/m ²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☒	☐	<u>Elevations including:</u>
☒	☐	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

- ~~N/A~~

Foundation Plan including:

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

- 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)

- 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)

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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 (termicide 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)

A/A

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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

A/A

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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
- g) Arc Fault Circuits (AFCI) in bedrooms

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HVAC information

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

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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

Existing

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.
2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058
4. **City Approval:** If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit.
5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is \$10.00
6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (\$5.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$25.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.
7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 758-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS – PLEASE DO NOT ASK

0603-59

Project Information for: L149328
Builder: BRYAN ZECHER CONST. **Date:** 2/8/2006
Lot: N/A **Start Number:** 1331
Subdivision: 321 SW BISHOP AVE
County or City: COLUMBIA COUNTY
Truss Page Count: 42

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)
 ZECHER, BRYAN C. CBC 054575
Address: PO BOX 815
 ALACHUA, FL 32615 **Designer:** 147

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 vertical loads only, unless noted otherwise.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	208061331	2/8/2006	41	T26	208061371	2/8/2006
2	CJ3	208061332	2/8/2006	42	T27	208061372	2/8/2006
3	CJ3A	208061333	2/8/2006				
4	CJ5	208061334	2/8/2006				
5	CJ5A	208061335	2/8/2006				
6	EJ7	208061336	2/8/2006				
7	EJ7A	208061337	2/8/2006				
8	HJ2	208061338	2/8/2006				
9	HJ9	208061339	2/8/2006				
10	HJ9A	208061340	2/8/2006				
11	T01	208061341	2/8/2006				
12	T02	208061342	2/8/2006				
13	T03	208061343	2/8/2006				
14	T04	208061344	2/8/2006				
15	T05	208061345	2/8/2006				
16	T06	208061346	2/8/2006				
17	T07	208061347	2/8/2006				
18	T08	208061348	2/8/2006				
19	T09	208061349	2/8/2006				
20	T09A	208061350	2/8/2006				
21	T10G	208061351	2/8/2006				
22	T11	208061352	2/8/2006				
23	T11G	208061353	2/8/2006				
24	T12	208061354	2/8/2006				
25	T13	208061355	2/8/2006				
26	T14	208061356	2/8/2006				
27	T14G	208061357	2/8/2006				
28	T15	208061358	2/8/2006				
29	T16	208061359	2/8/2006				
30	T17	208061360	2/8/2006				
31	T18	208061361	2/8/2006				
32	T19	208061362	2/8/2006				
33	T20	208061363	2/8/2006				
34	T21	208061364	2/8/2006				
35	T21G	208061365	2/8/2006				
36	T22	208061366	2/8/2006				
37	T23	208061367	2/8/2006				
38	T24	208061368	2/8/2006				
39	T25	208061369	2/8/2006				
40	T25G	208061370	2/8/2006				

FEB 08 2006

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Name: **ZECHER, BRYAN CHRISTIAN (Primary Name)**
BRYAN ZECHER CONSTRUCTION INC (DBA)
Main Address: **P O BOX 815**
LAKE CITY, Florida 32056
Lic. Location: **465 NW ORANGE ST**
LAKE CITY, FL 32055 United States
Columbia

10:00:13 AM

License Information

License Type: **Certified Building Contractor**
Rank: **Cert Building**
License Number: **CBC054575**
Status: **Current, Active**
Licensure Date: **12/05/1991**
Expires: **08/31/2006**

Special Qualifications

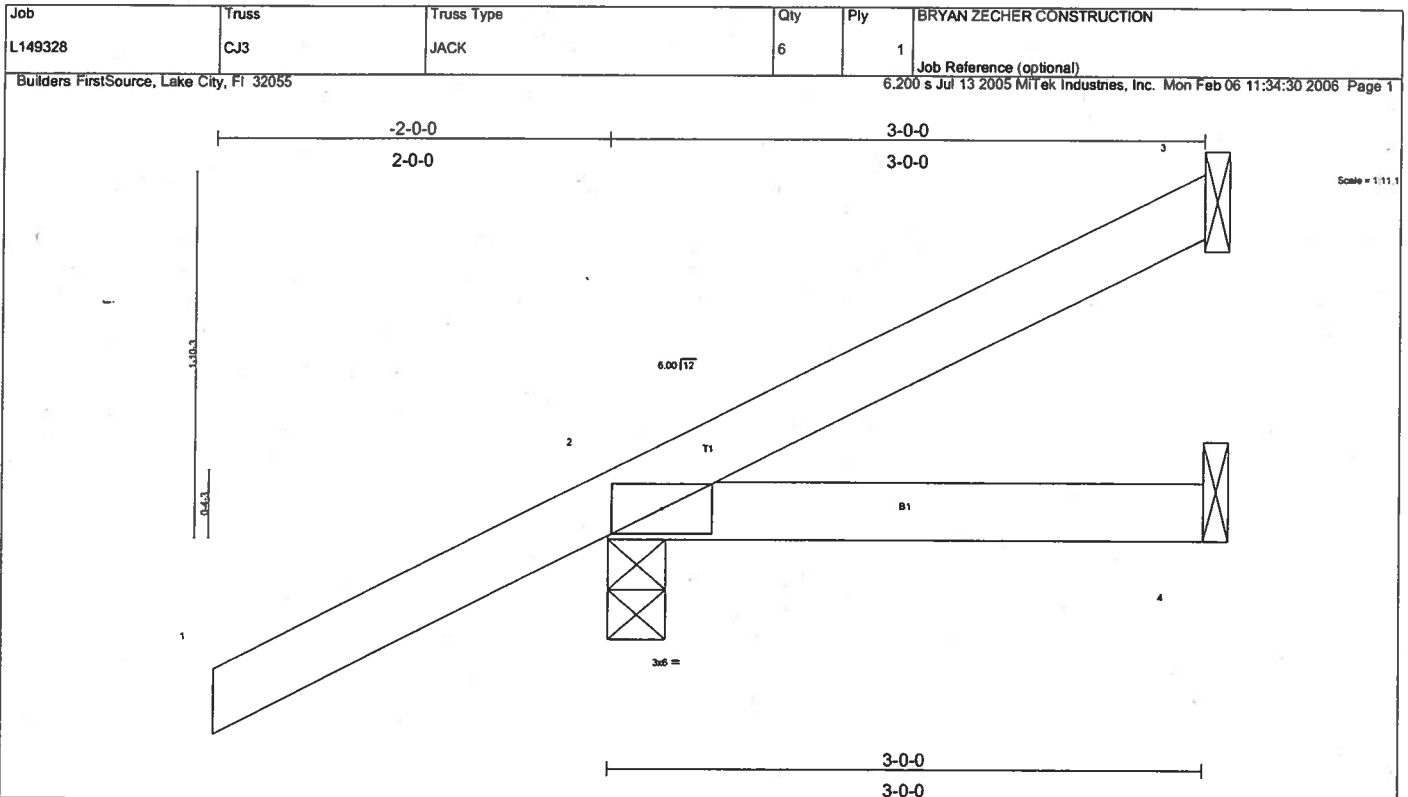
Effective Date

Bldg Code Core Course Credit

Qualified Business License
Required

04/13/2004

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.29	Vert(LL)	0.01	2-4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.08	Vert(TL)	0.01	2-4	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 13 lb	

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

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

REACTIONS (lb/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical
 Max Horz 2=132(load case 5)
 Max Uplift 3=28(load case 6), 2=238(load case 5), 4=27(load case 3)

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

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3, 238 lb uplift at joint 2 and 27 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	CJ3A	SPECIAL	2	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Feb 06 11:59:26 2006 Page 1		

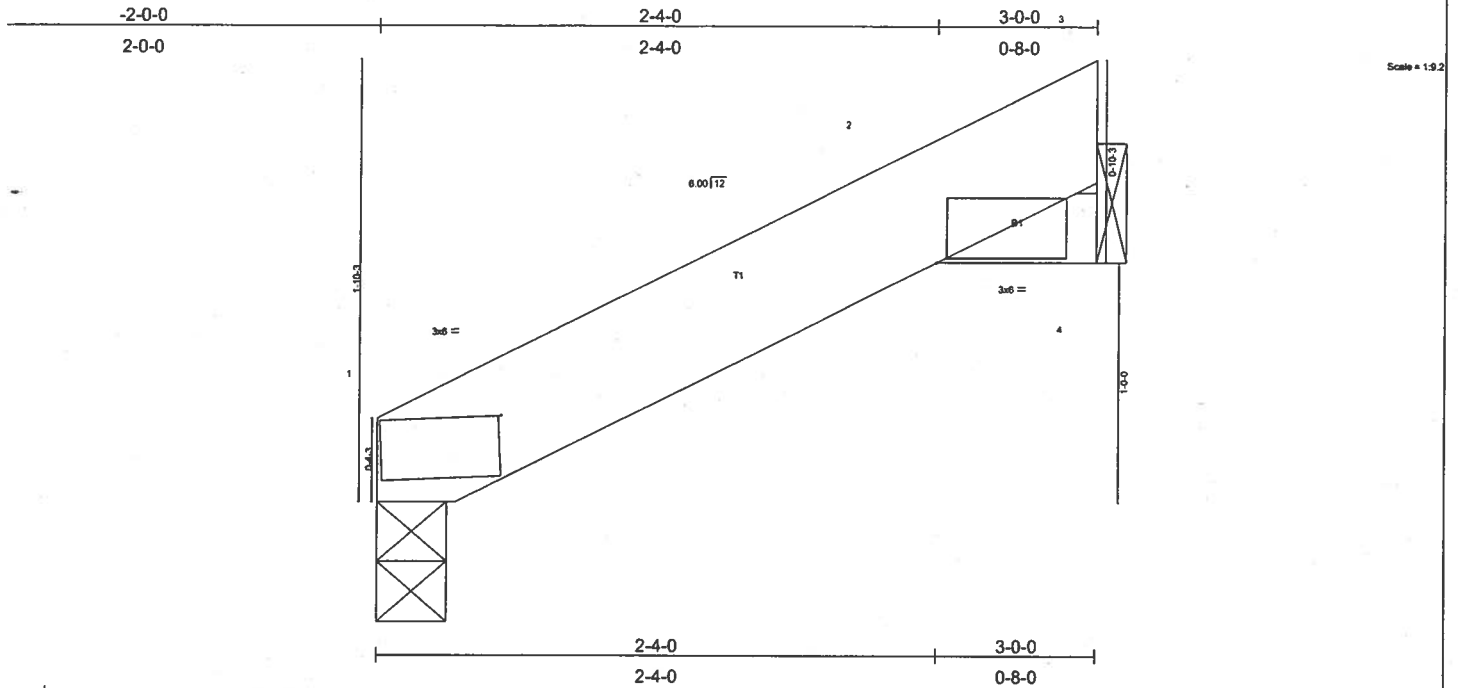


Plate Offsets (X, Y): [2:0-0-8,Edge], [2:1-10-1,0-6-12]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.02	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.01	Vert(LL) 0.00 2 n/r 120		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) 0.00 2 n/r 90		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 2 n/a n/a		
	Code FBC2004/TPI2002			Weight: 9 lb	

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

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

REACTIONS (lb/size) 1=67/0-3-8, 2=138/Mechanical
 Max Horz 1=66(load case 5)
 Max Uplift 1=13(load case 5), 2=-75(load case 5)

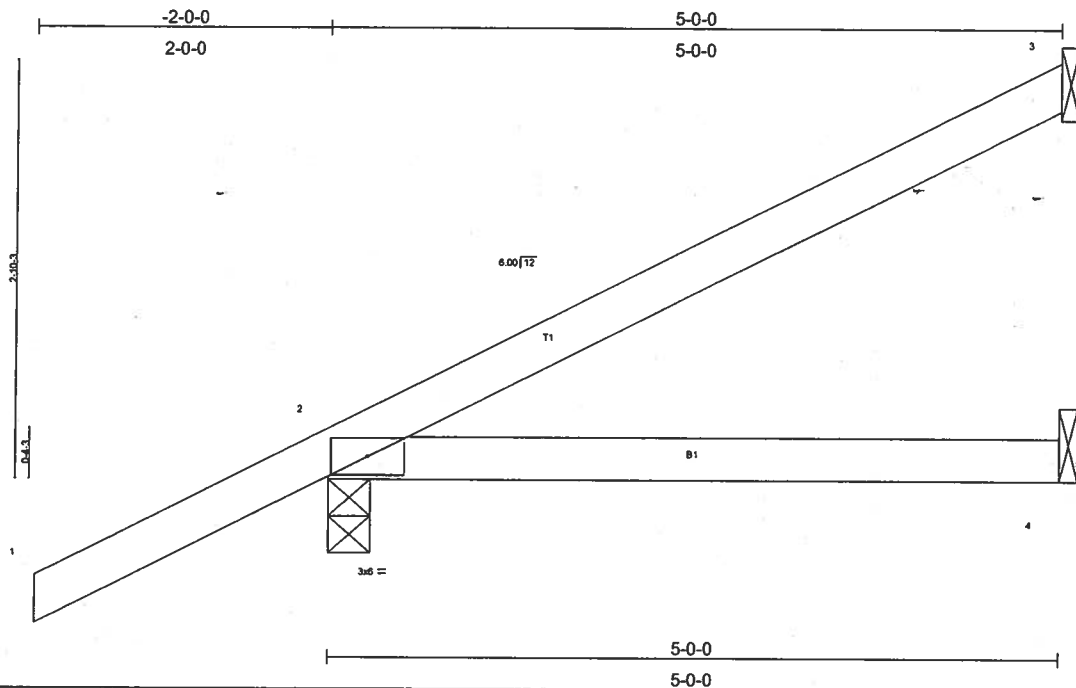
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-89/34, 2-3=-20/0
 BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Bearing at joint(s) 1 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 13 lb uplift at joint 1 and 75 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L149328	Truss CJ5	Truss Type JACK	Qty 6	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Feb 06 11:44:06 2006 Page 1					



LOADING (psf)	SPACING	CSI	DEFL	In	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2'-0"	TC 0.29	Vert(LL)	0.09	2-4	>663	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.24	Vert(TL)	0.07	2-4	>774	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 19 lb

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

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

REACTIONS (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift 3=87(load case 5), 2=-260(load case 5), 4=-46(load case 3)

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

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 260 lb uplift at joint 2 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	CJ5A	SPECIAL	2	1	Job Reference (optional)
Builders FirstSource, Lake City, Fl 32055					6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Feb 06 11:56:21 2006 Page 1

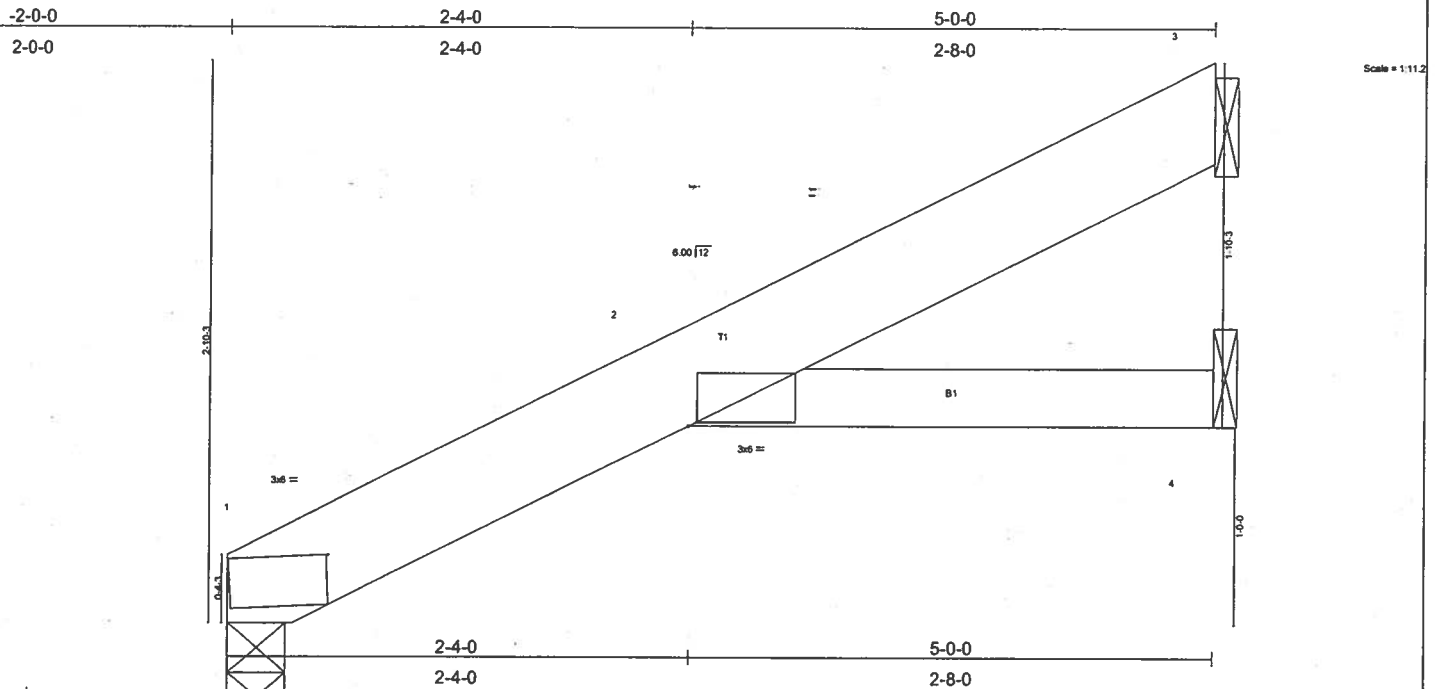


Plate Offsets (X,Y): [2:0-0-8,Edge], [2:1-10-2,0-6-14]									
LOADING (psf)		SPACING 2-0-0		CSI		DEFL		PLATES	
TCLL	20.0	Plates Increase	1.25	TC	0.14	in (loc)	l/def	L/d	GRIP
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(LL)	0.03	2	MT20
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Vert(TL)	-0.03	2	244/190
BCDL	5.0	Code FBC2004/TP12002		(Matrix)		Horz(TL)	-0.01	4	
							n/a	n/a	Weight: 17 lb

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

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

REACTIONS (lb/size) 1=169/0-3-8, 3=153/Mechanical, 4=39/Mechanical
Max Horiz 1=110(load case 5)
Max Uplift 1=47(load case 5), 3=111(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-114/0, 2-3=-96/66
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDF=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) Bearing at joint(s) 1 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 47 lb uplift at joint 1 and 111 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L149328	Truss EJ7	Truss Type MONO TRUSS	Qty 10	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)

6.200 s Jul 13 2005 MITek Industries, Inc. Mon Feb 06 11:52:41 2006 Page 1

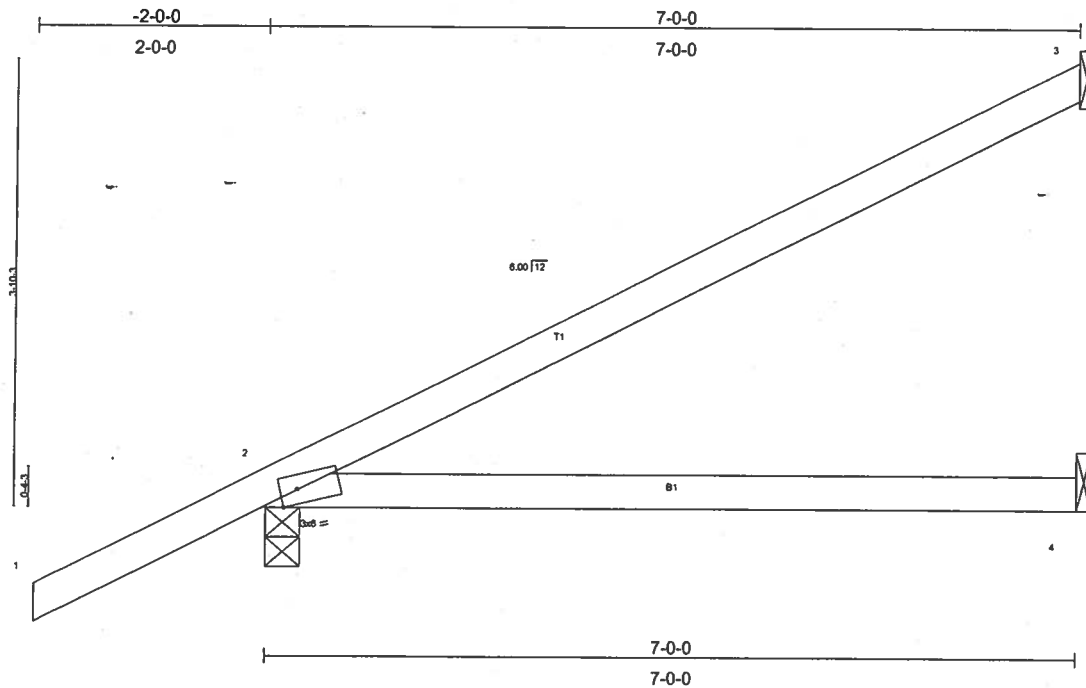


Plate Offsets (X,Y): [2,0-1-12,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	Vert(LL)	-0.12	2-4	>664	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.35	Vert(TL)	-0.21	2-4	>397	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002								
								Weight: 26 lb	

LUMBER

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

BRACING

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

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

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-119/58
BOT CHORD 2-4=0/0

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 glider(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 3 and 210 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	EJ7A	SPECIAL	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 Mitek Industries, Inc. Mon Feb 06 11:58:46 2006 Page 1		

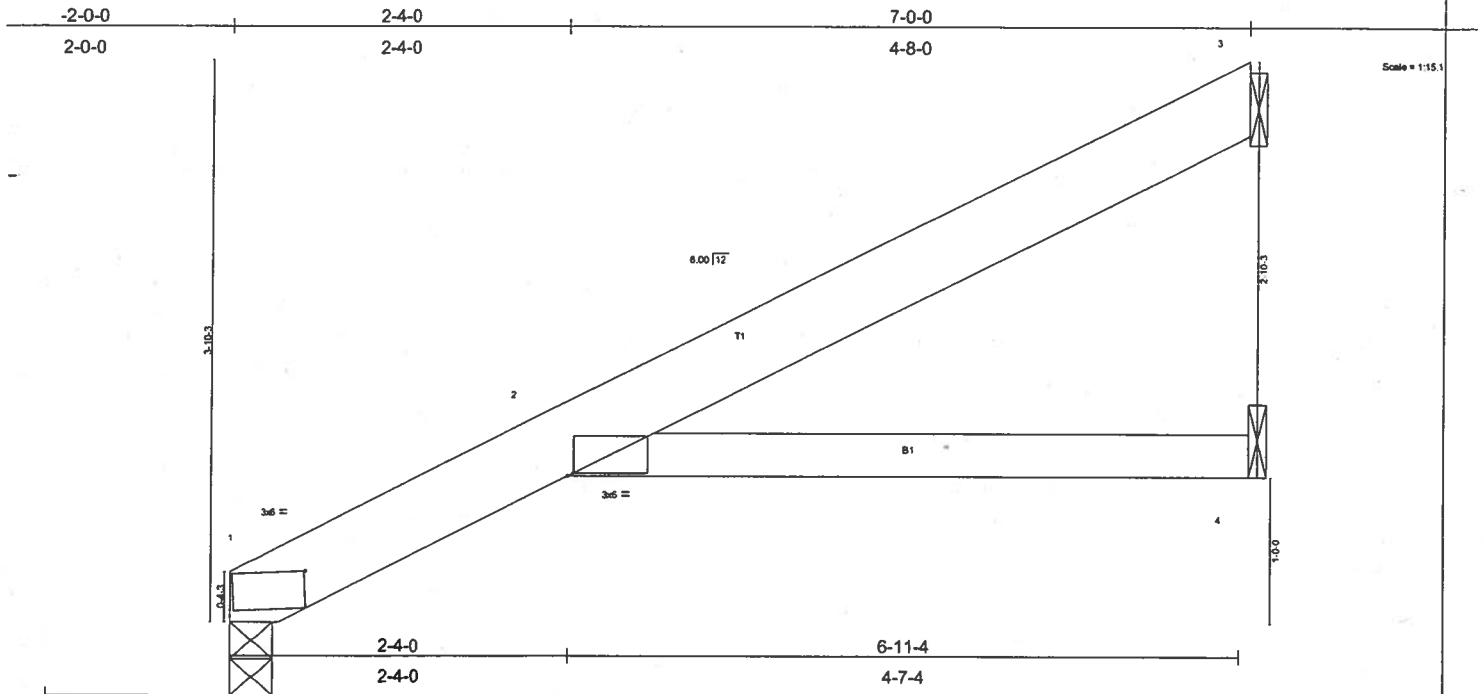


Plate Offsets (X,Y): [2:0-0-8,Edge], [2:1-10-1,0-6-14]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.26	Vert(LL) 0.10	2	>791	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.17	Vert(TL) -0.10	2-4	>777	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.05	4	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 26 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 1=250/0-3-8, 3=209/Mechanical, 4=69/Mechanical
Max Horz 1=157(load case 5)
Max Uplift 1=67(load case 5), 3=160(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-162/0, 2-3=-136/86
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Bearing at joint(s) 1 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 67 lb uplift at joint 1 and 160 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	HJ2	JACK	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 Mitek Industries, Inc. Tue Feb 07 10:34:36 2006 Page 1		

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.04	Vert(LL) -0.00 2-4 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.00 2-4 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TP12002			Weight: 13 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

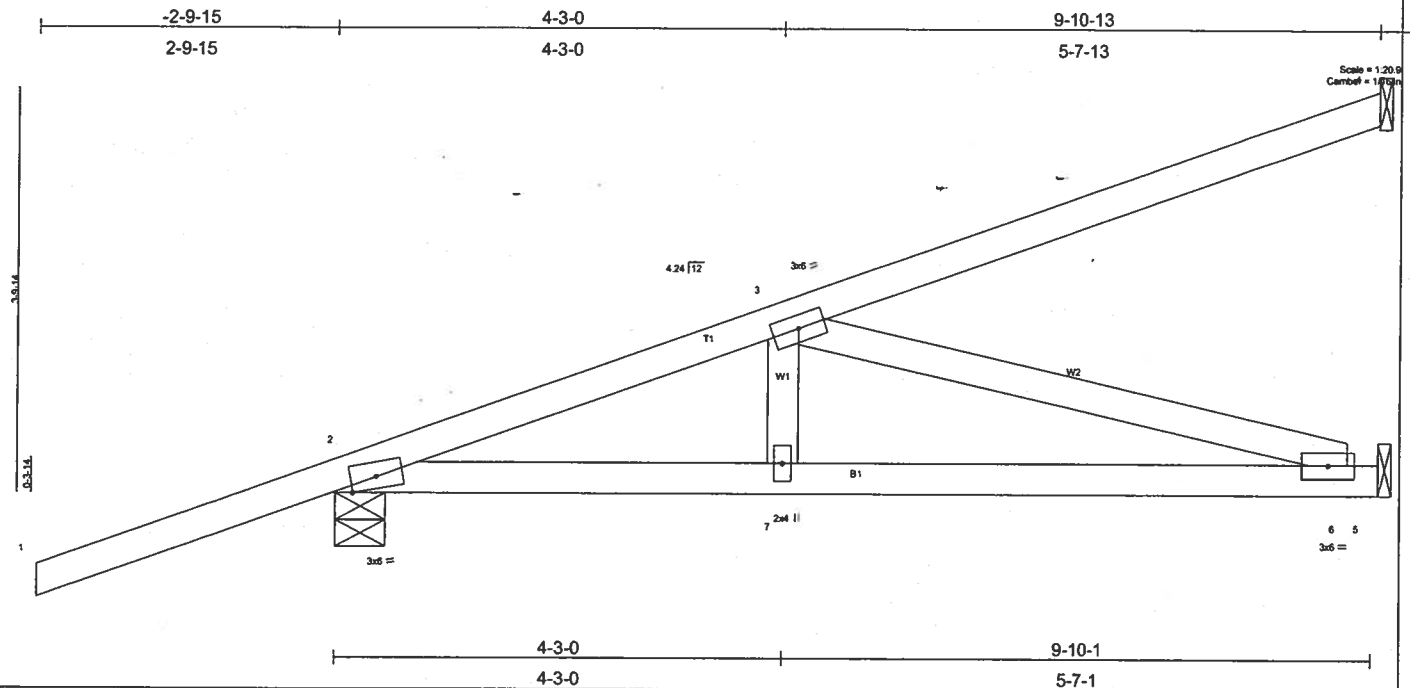
REACTIONS (lb/size) 3=44/Mechanical, 2=372/0-5-11, 4=35/Mechanical
 Max Horz 2=106(load case 2)
 Max Uplift 3=44(load case 1), 2=326(load case 2)
 Max Grav 3=72(load case 2), 2=372(load case 1), 4=35(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/50, 2-3=64/26
 BOT CHORD 2-4=0/0

NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; 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 44 lb uplift at joint 3 and 326 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	HJ9	MONO TRUSS	3	1	
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Feb 06 12:00:43 2006 Page 1					



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	In (loc)	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.57	Vert(LL) -0.10		
BCLL 10.0	Lumber Increase 1.25	WB 0.46	Vert(TL) -0.17		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01		
	Code FBC2004/TPI2002				
				Weight: 45 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.

REACTIONS (lb/size) 4=269/Mechanical, 2=535/0-5-11, 5=375/Mechanical
 Max Horz 2=269(load case 2)
 Max Uplift 4=233(load case 2), 2=401(load case 2), 5=181(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/50, 2-3=881/360, 3-4=-105/66
 BOT CHORD 2-7=-532/815, 6-7=-532/815, 5-6=0/0
 WEBS 3-7=-89/178, 3-6=-848/554

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch 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 233 lb uplift at joint 4, 401 lb uplift at joint 2 and 181 lb uplift at joint 5.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-54

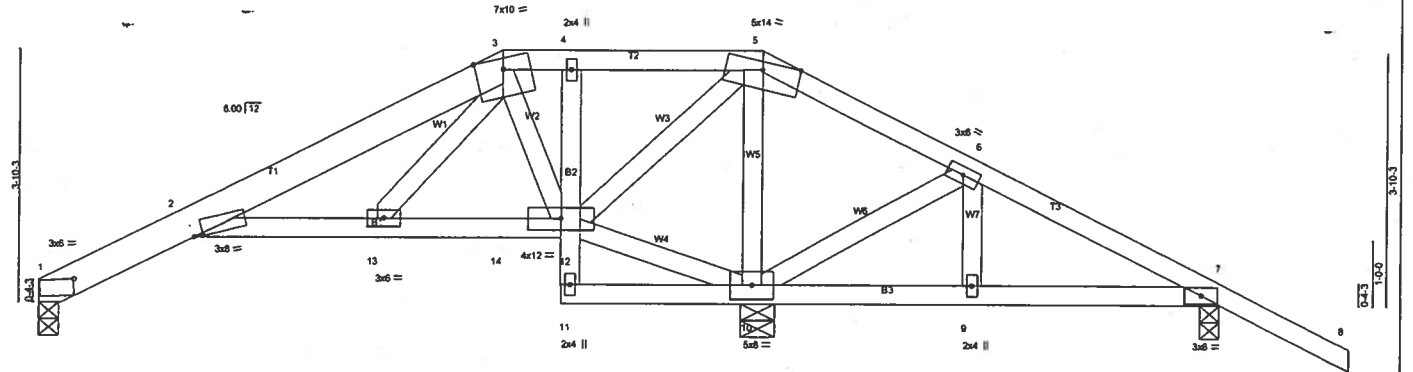
Trapezoidal Loads (plf)

Vert: 2=-3(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=15, B=15)-to-5=-74(F=-22, B=-22)

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T01	SPECIAL	1	1	
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		
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2-0-0	2-4-0	7-0-0	7-10-14	11-0-0	14-2-12	18-0-0	20-0-0
-0-0	2-4-0	4-8-0	0-10-14	3-1-2	3-2-12	3-9-4	2-0-0

Scale = 1:33.5



2-4-0	5-1-7	7-0-0	7-10-14	11-0-0	14-2-12	18-0-0
2-4-0	2-9-7	1-10-9	0-10-14	3-1-2	3-2-12	3-9-4

Plate Offsets (X,Y): [2:0-1-9,0-0-2], [2:1-9-15,0-6-12]						
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP	
TCLL 20.0	Plates Increase 1.25	TC 0.41	in (loc) l/defl L/d	MT20	244/190	
TCDL 7.0	Lumber Increase 1.25	BC 0.57	Vert(LL) -0.07 2-13 >999 240			
BCCL 10.0	Rep Stress Incr NO	WB 0.44	Vert(TL) -0.11 2-13 >999 180			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.06 10 n/a n/a			
				Weight: 97 lb		

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
T1 2 X 6 SYP No.1D	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
BOT CHORD 2 X 4 SYP No.2 *Except*	10-0-0 oc bracing: 11-12.
B2 2 X 4 SYP No.3	JOINTS 1 Brace at Jt(s): 13
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size)	1=268/0-3-8, 7=195/0-3-8, 10=2958/0-6-7
	Max Horz 1=109(load case 5)
	Max Uplift 1=120(load case 5), 7=424(load case 8), 10=1347(load case 4)
	Max Grav 1=274(load case 8), 7=76(load case 4), 10=2958(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-107/162, 2-3=-386/230, 3-4=-57/225, 4-5=-64/258, 5-6=-533/1338, 6-7=-407/1134, 7-8=0/47
BOT CHORD	2-13=-106/350, 13-14=-31/97, 12-14=-31/97, 11-12=0/60, 4-12=-228/209, 10-11=-172/109, 9-10=-989/408, 7-9=-989/408
WEBS	3-13=-154/466, 3-12=-588/307, 10-12=-1121/535, 5-12=-547/1296, 5-10=-1699/757, 6-10=-307/215, 6-9=-74/99

NOTES	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60.	
3) Provide adequate drainage to prevent water ponding.	
4) Bearing at joint(s) 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 120 lb uplift at joint 1, 424 lb uplift at joint 7 and 1347 lb uplift at joint 10.	
6) Girder carries hip end with 7-0-0 end setback.	
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 11-0-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.	
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).	

LOAD CASE(S) Standard	
1) Regular: Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-2=-65, 2-3=-54, 3-5=-118(F=-64), 5-8=-54, 2-14=-30, 12-14=-65(F=-35), 10-11=-65(F=-35), 7-10=-30	
Concentrated Loads (lb)	
Vert: 10=-539(F) 14=-539(F)	

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T02	SPECIAL	1	1	

Builders FirstSource, Lake City, FL 32055

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1-0-0	2-4-0	9-0-0	9-10-14	13-8-3	18-0-0	20-0-0
-0-0	2-4-0	6-8-0	0-10-14	3-9-5	4-3-13	2-0-0

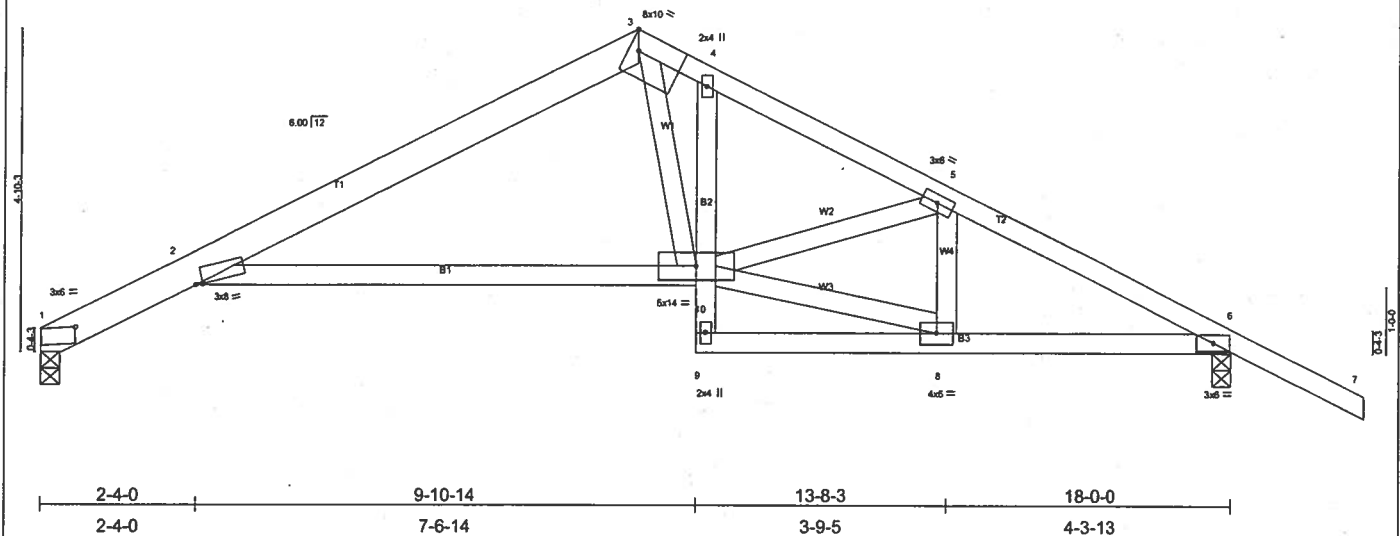
Scale = 1/32
Camber = 1/4 in

Plate Offsets (X,Y): [2:0-1-5,0-0-2], [3:8-7-13,3-9-7], [3:Edge,0-3-8]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.94	Vert(LL)	-0.40	2-10	>533	240	MT20
TCDL 7.0	Lumber Increase 1.25	BC 0.73	Vert(TL)	-0.65	2-10	>326	180	244/190
BCLL 10.0	Rep Stress Incr YES	WB 0.39	Horz(TL)	0.26	6	n/a	n/a	
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)						Weight: 89 lb

LUMBER
 TOP CHORD 2 X 6 SYP No.1D *Except*
 T2 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 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=698/0-3-8, 6=864/0-3-8
 Max Horz 1=-126(load case 6)
 Max Uplift 1=-238(load case 5), 6=-371(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-280/219, 2-3=-1197/486, 3-4=-1030/452, 4-5=-1279/531, 5-6=-1262/503, 6-7=0/47
 BOT CHORD 2-10=-243/1092, 9-10=-2/61, 4-10=-206/494, 8-9=-128/16, 6-8=-293/1070
 WEBS 3-10=-62/308, 8-10=-319/1231, 5-10=-44/100, 5-8=-224/144

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 1 and 371 lb uplift at joint 6.

LOAD CASE(S) Standard

Job L149328	Truss T03	Truss Type SPECIAL	Qty 6	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 13:25:05 2006 Page 1		

2-0-0 2-4-0 9-0-0 15-8-0 18-0-0 20-0-0
2-0-0 2-4-0 6-8-0 6-8-0 2-4-0 2-0-0

Scale = 1:30.7
Camber = 1/4 in

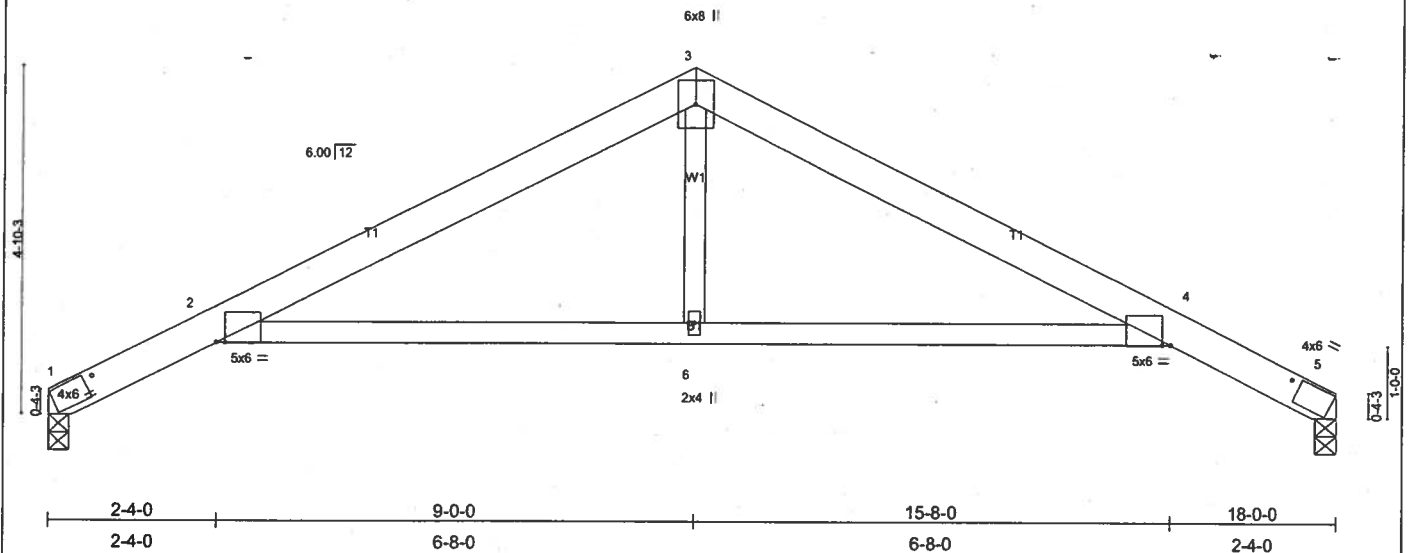


Plate Offsets (X,Y): [2-0-1-8,0-0-0], [4-0-1-8,0-0-0], [4-13-8-3-6-3-15], [4-1-8-15,0-4-4]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.87	Vert(LL) -0.39	2-6	>550	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.79	Vert(TL) -0.63	2-6	>336	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.11	Horz(TL) 0.42	5	n/a	n/a			
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
									Weight: 72 lb

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6

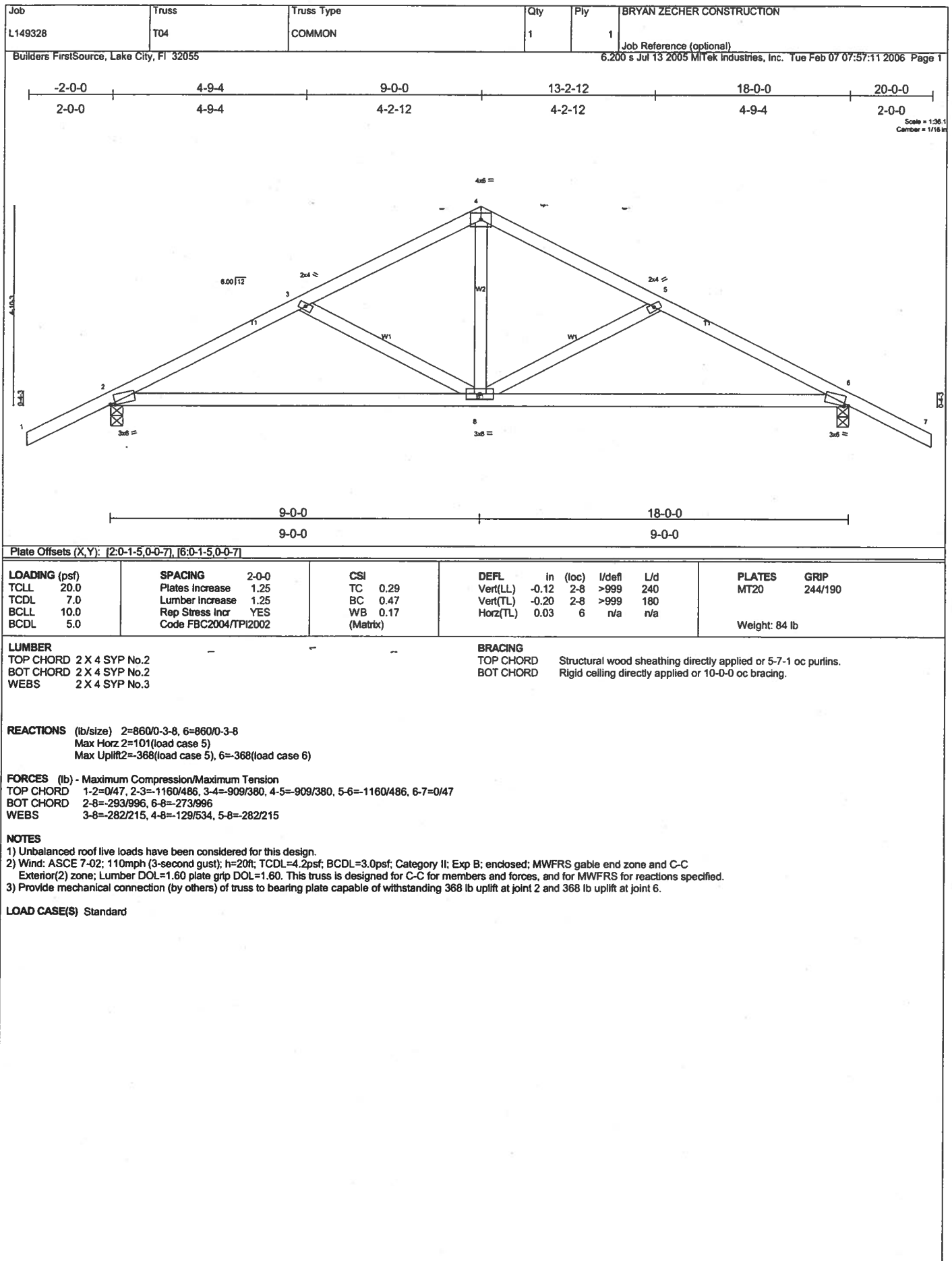
REACTIONS (lb/size) 1=702/0-3-8, 5=702/0-3-8
Max Horz 1=64(load case 4)
Max Uplift 1=241(load case 5), 5=241(load case 6)

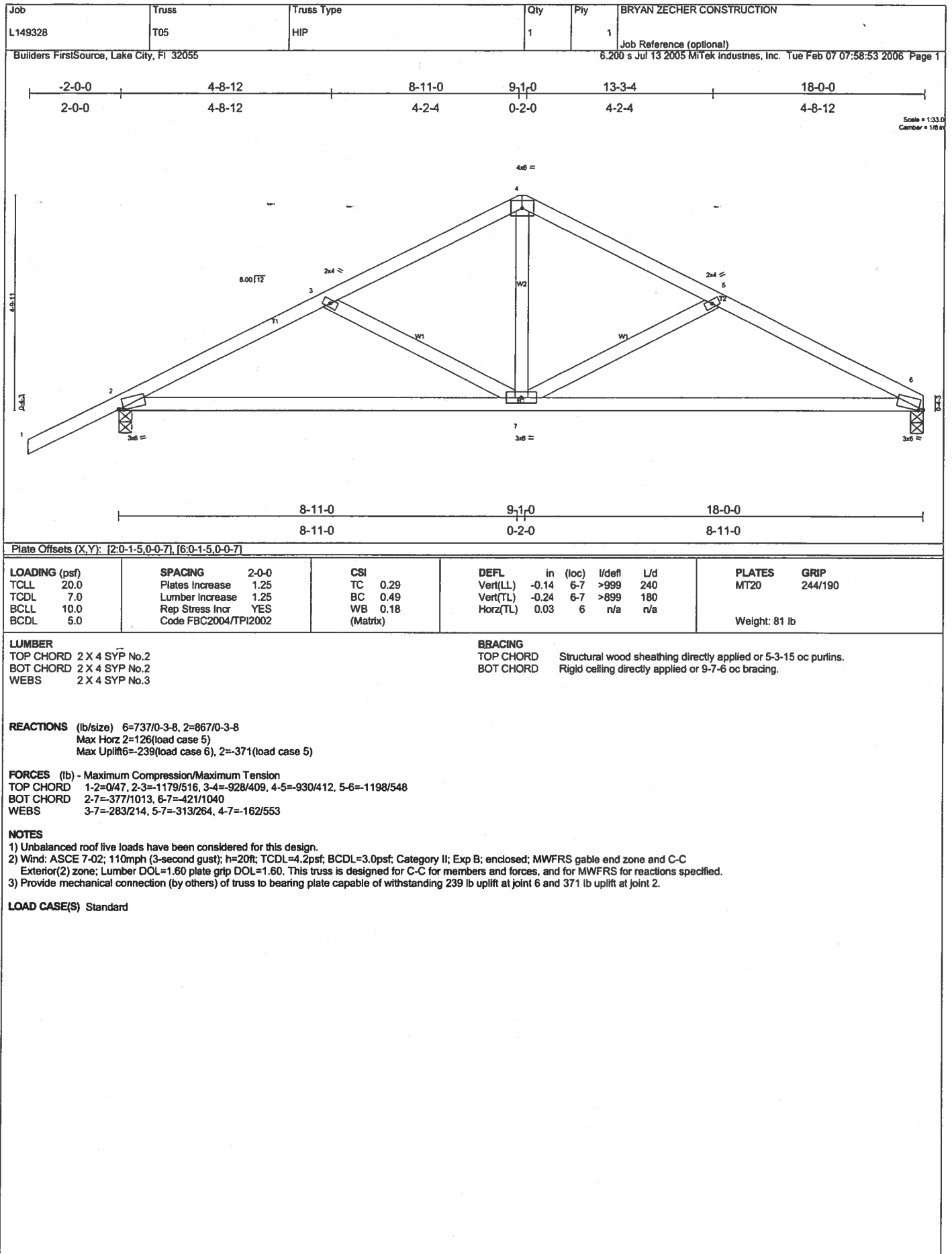
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-282/161, 2-3=-1365/655, 3-4=-1365/655, 4-5=-282/161
BOT CHORD 2-6=-483/1260, 4-6=-483/1260
WEBS 3-6=-38/350

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 1 and 241 lb uplift at joint 5.

LOAD CASE(S) Standard





Job L149328	Truss T06	Truss Type SPECIAL	Qty 1	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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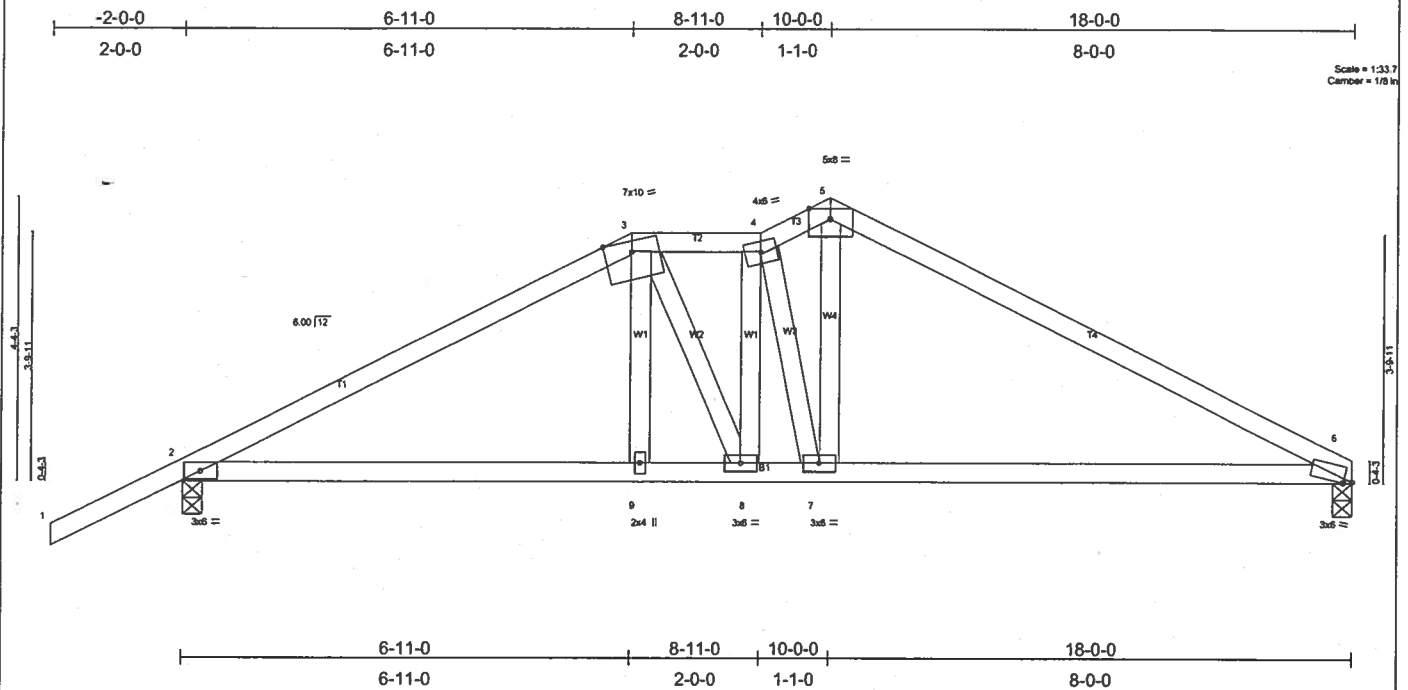


Plate Offsets (X,Y): [6:0-1-9,0-0-7]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.62	Vert(LL)	-0.16	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.60	Vert(TL)	-0.26	6-7	>827	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.13	Horz(TL)	0.03	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
Weight: 86 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 5-3-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 6=737/0-3-8, 2=867/0-3-8
 Max Horz 2=119(load case 5)
 Max Uplift 6=-233(load case 6), 2=-379(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-1156/451, 3-4=-874/438, 4-5=-870/387, 5-6=-1123/462
 BOT CHORD 2-9=-296/958, 8-9=-294/968, 7-8=-256/879, 6-7=-301/926
 WEBS 3-9=0/261, 3-8=-262/100, 4-8=-261/17, 4-7=-187/363, 5-7=0/409

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 6 and 379 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T07	SPECIAL	1	1	Job Reference (optional)

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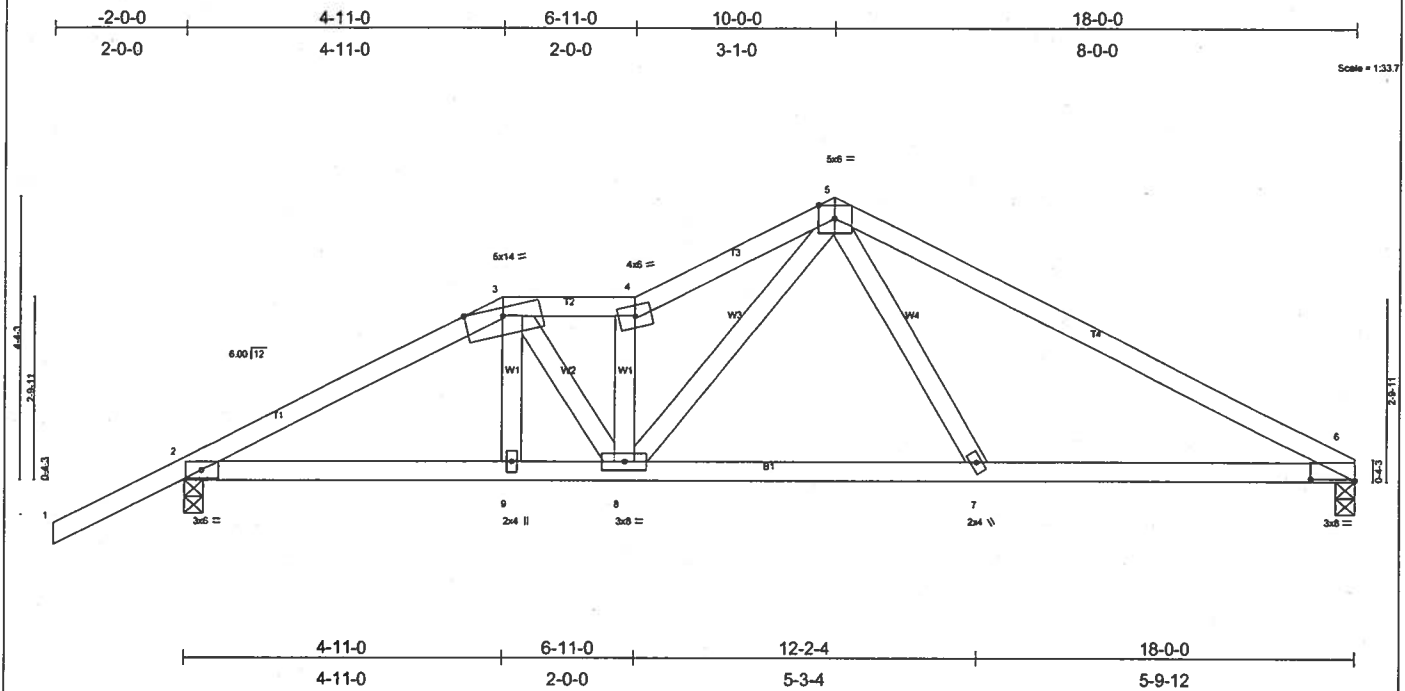


Plate Offsets (X,Y): [6-0-8-0,0-0-6]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.51	Vert(LL)	0.08	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.48	Vert(TL)	-0.13	6-7	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.21	Horz(TL)	0.03	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 85 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=737/0-3-8, 2=867/0-3-8
 Max Horz 2=119(load case 5)
 Max Uplift 6=233(load case 6), 2=379(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-1239/467, 3-4=-1176/502, 4-5=-1333/577, 5-6=-1200/467
 BOT CHORD 2-9=-333/1045, 8-9=-331/1051, 7-8=-292/853, 6-7=-303/988
 WEBS 3-9=0/111, 3-8=-73/210, 4-8=-566/212, 5-8=-186/665, 5-7=-222/275

NOTES

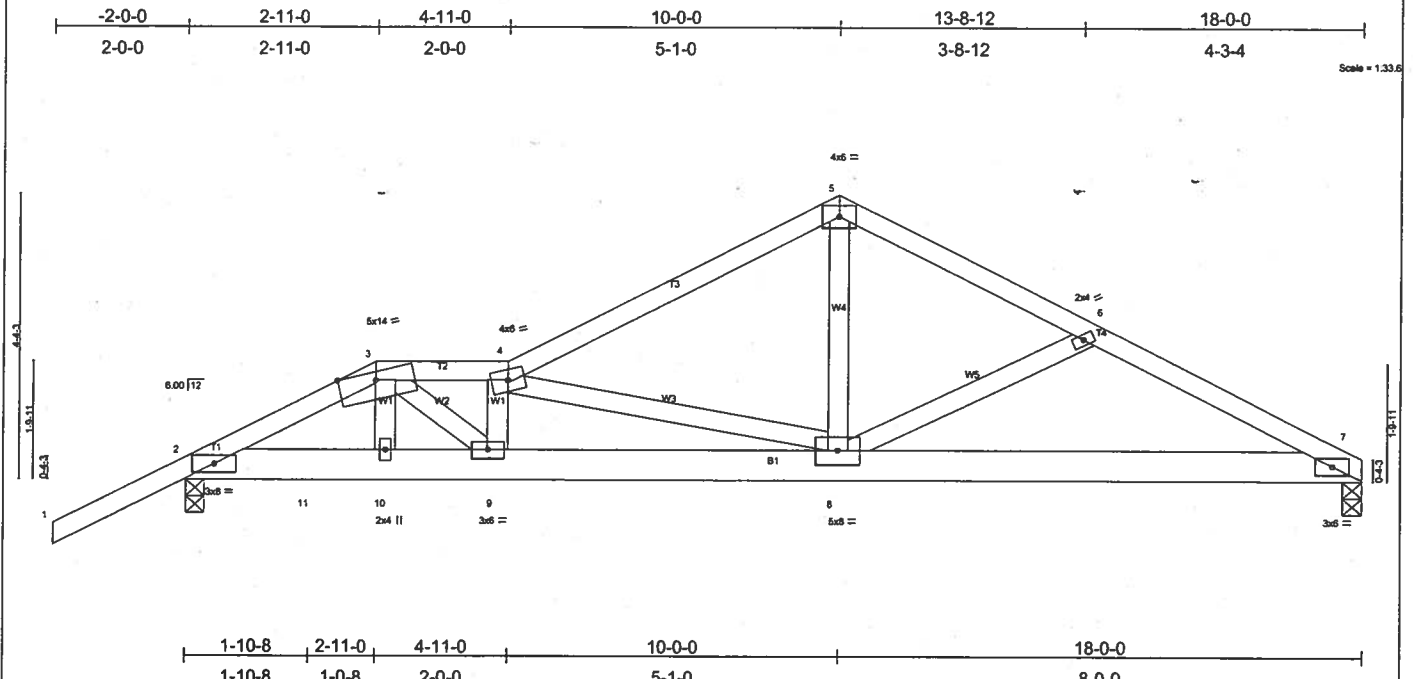
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 6 and 379 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T08	SPECIAL	1	1	Job Reference (optional)

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.35	Vert(LL) -0.08 8-9 >999 240		
BCLL 10.0	Rep Stress Incr NO	WB 0.60	Vert(TL) -0.12 8-9 >999 180		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)	Horz(TL) 0.03 7 n/a n/a		
				Weight: 100 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-2-3 oc bracing.

REACTIONS (lb/size) 7=785/0-3-8, 2=1312/0-3-8
 Max Horz 2=123(load case 5)
 Max Uplift 7=251(load case 6), 2=548(load case 5)

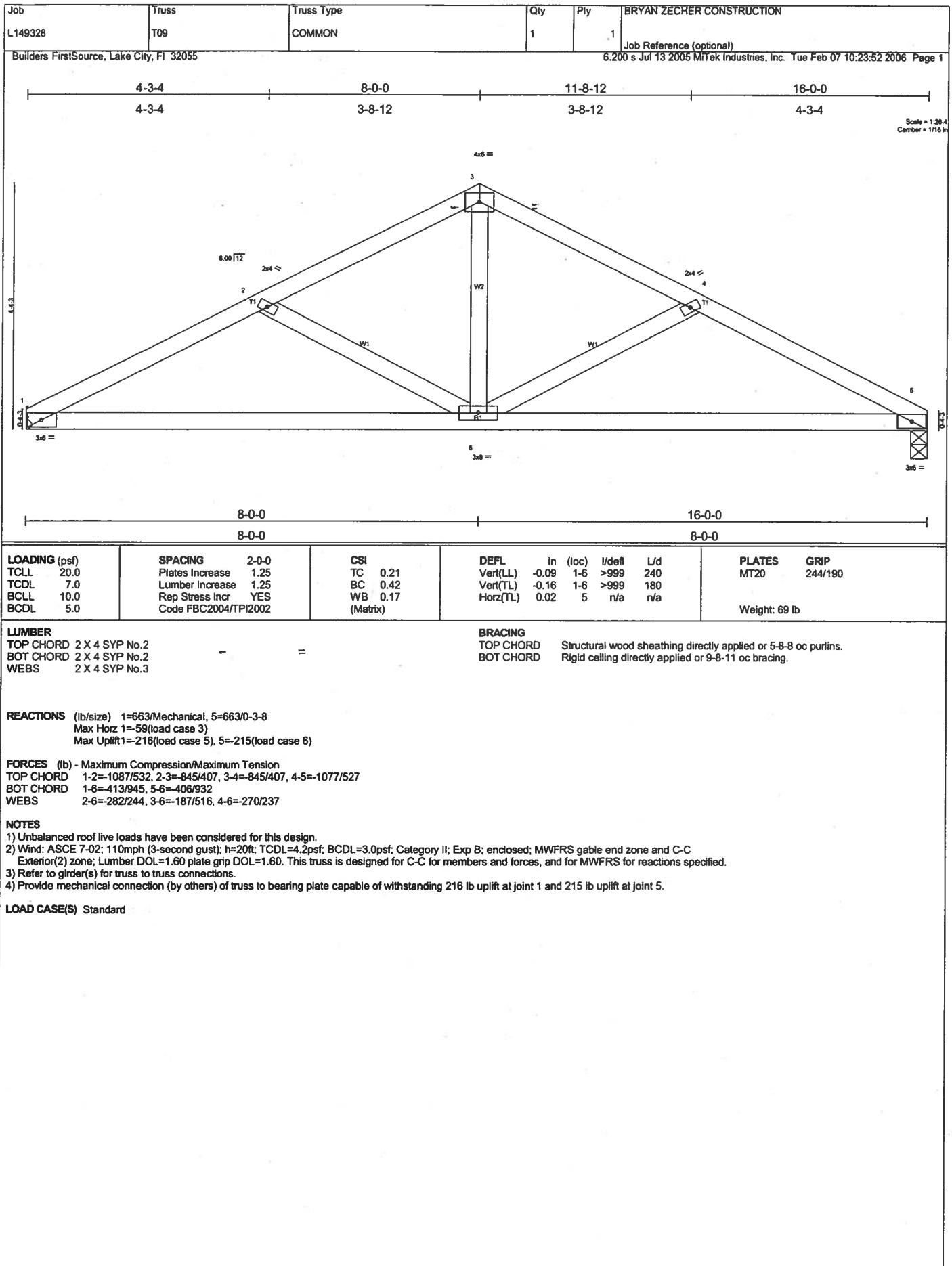
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/51, 2-3=1905/694, 3-4=2077/866, 4-5=1150/491, 5-6=1135/502, 6-7=1357/612
 BOT CHORD 2-11=569/1664, 10-11=569/1664, 9-10=580/1712, 8-9=819/2115, 7-8=486/1170
 WEBS 3-10=142/480, 3-9=270/460, 4-9=373/250, 4-8=1179/542, 5-8=226/705, 6-8=245/212

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 7 and 548 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 493 lb down and 214 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

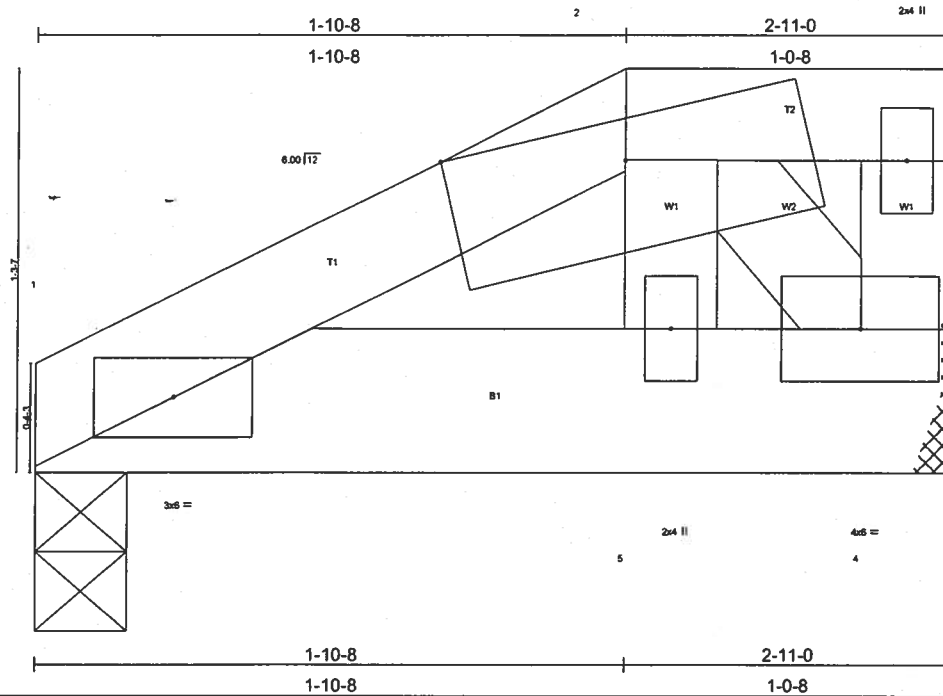
- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert 1-3=-54, 3-4=-54, 4-5=-54, 5-7=-54, 2-7=-30
 Concentrated Loads (lb)
 Vert: 11=493(F)



Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T09A	MONO HIP	1	each = 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 0.04	Vert(LL) -0.00	5	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.13	Vert(TL) -0.00	1-5	>999	180		
BCLL 10.0	Rep Stress Incr NO	WB 0.13	Horz(TL) 0.00	4	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 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-11-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

REACTIONS (lb/size) 1=493/0-3-8, 4=493/Mechanical
Max Horz 1=42(load case 4)
Max Uplift 1=-177(load case 4), 4=-183(load case 4)

FORCES

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-321/98, 2-3=0/0, 3-4=24/17
BOT CHORD 1-5=-105/269, 4-5=-125/335
WEBS 2-5=-135/411, 2-4=-475/178

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 177 lb uplift at joint 1 and 183 lb uplift at joint 4.

5) Girder carries tie-in span(s): 16-0-0 from 0-0-0 to 2-11-0

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

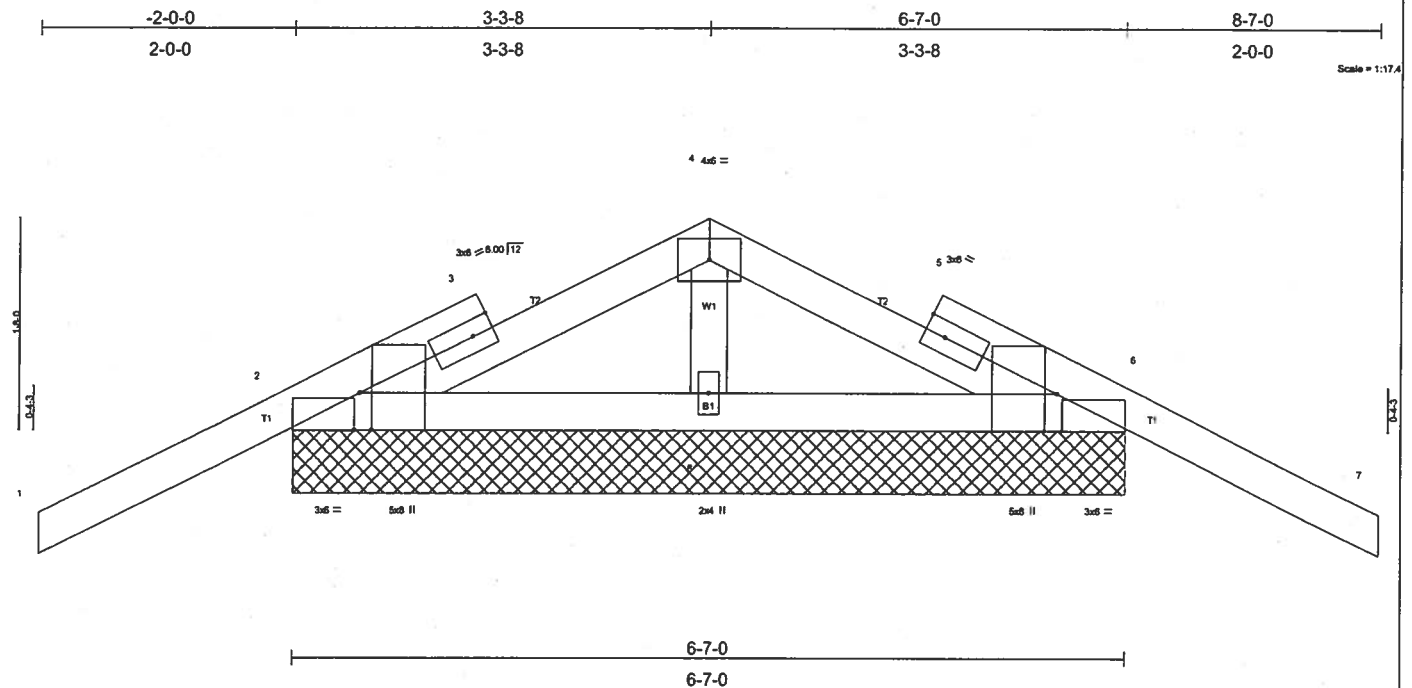
LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: $1-2=-54$, $2-3=-54$, $1-4=-321$ ($F=-291$)

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T10G	COMMON	1	1	Job Reference (optional)
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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.08	Vert(LL) -0.04 7 n/r 120		
BCLL 10.0	Lumber Increase 1.25	WB 0.05	Vert(TL) -0.06 7 n/r 90		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.00 6 n/a n/a		
	Code FBC2004/TP12002			Weight: 32 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 6-7-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=487/6-7-0, 6=487/6-7-0, 8=430/6-7-0
 Max Horz 2=57(load case 6)
 Max Uplift 2=298(load case 5), 6=307(load case 6), 8=79(load case 5)
 Max Grav 2=493(load case 9), 6=493(load case 10), 8=430(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-25/99, 2-3=-5/32, 3-4=-11/128, 4-5=-12/128, 5-6=-4/32, 6-7=-25/99
 BOT CHORD 2-8=-85/124, 6-8=-85/124
 WEBS 4-8=-307/158

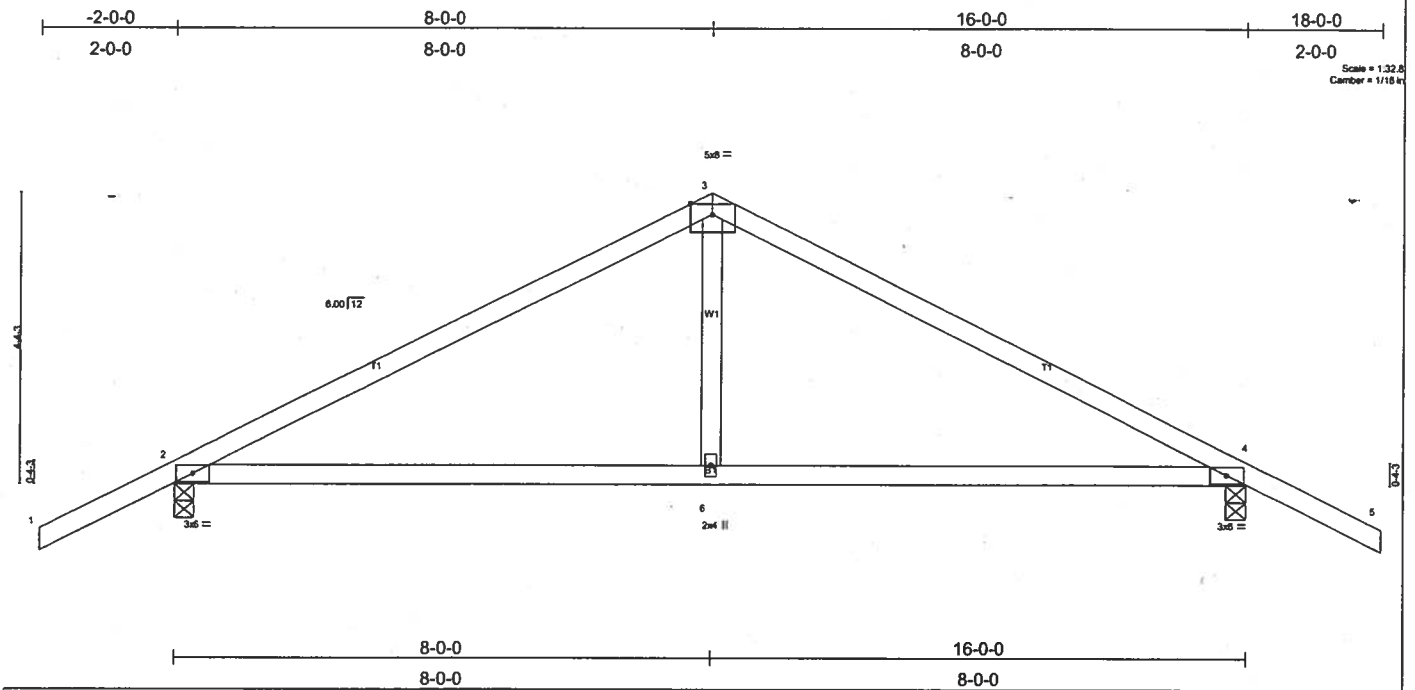
NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- 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"
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2, 307 lb uplift at joint 6 and 79 lb uplift at joint 8.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-114(F=-60), 4-7=-114(F=-60), 2-6=-30

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T11	COMMON	2	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 08:05:56 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.55	Vert(LL) -0.13 4-6 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.09	Vert(TL) -0.20 4-6 >925 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 4 n/a n/a		
	Code FBC2004/TP12002			Weight: 63 lb	

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

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

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

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 342 lb uplift at joint 2 and 342 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T11G	COMMON	1	1	Job Reference (optional)
Builders FirstSource, Lake City, Fl 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 08:18:31 2006 Page 1		

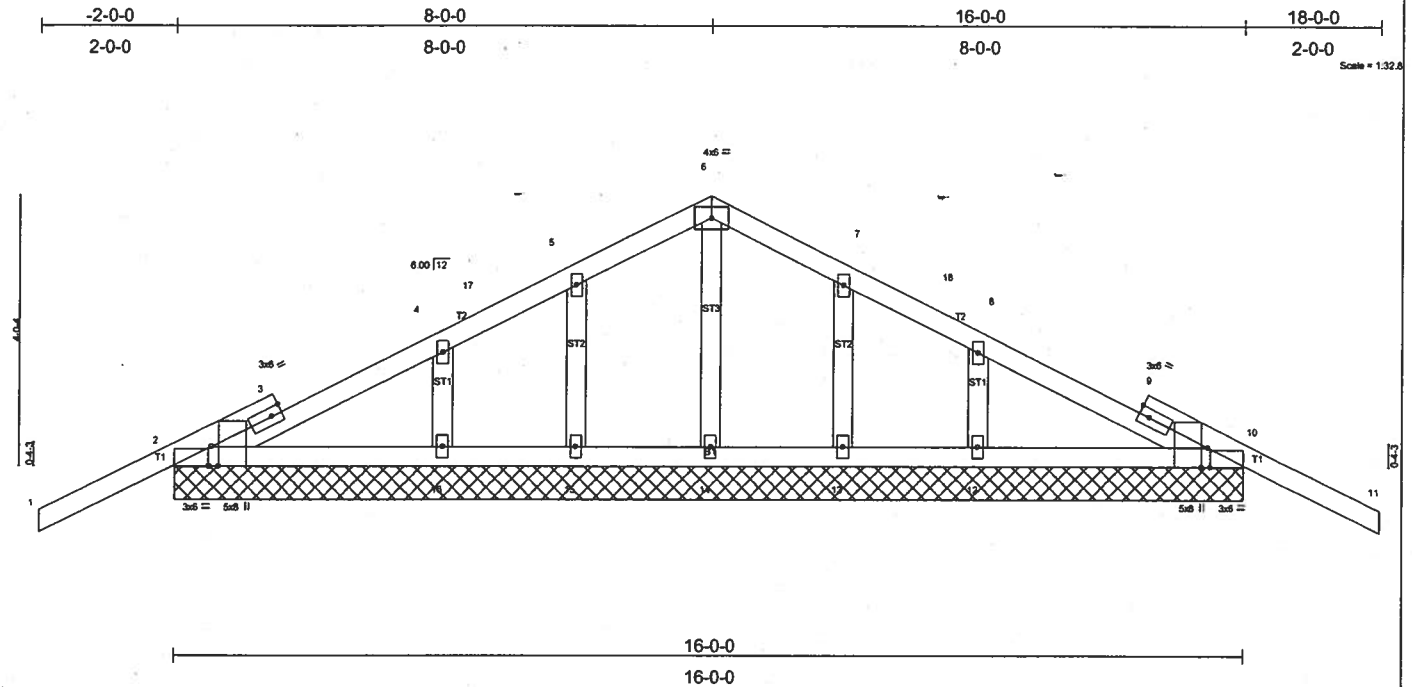


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [10:0-3-8,Edge], [10:0-0-8,Edge]									
LOADING (psf)		SPACING 2-0-0		CSI		DEFL		PLATES GRIP	
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.03 11 n/r 120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.05 11 n/r 90		
BCLL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(TL)	0.00 10 n/a n/a		
BCDL	5.0	Code FBC2004/TP12002		(Matrix)					Weight: 77 lb

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

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

REACTIONS (lb/size) 2=516/16-0-0, 10=516/16-0-0, 14=424/16-0-0, 15=277/16-0-0, 16=464/16-0-0, 13=277/16-0-0, 12=464/16-0-0

Max Horz 2=90(load case 6)

Max Uplift 2=284(load case 5), 10=297(load case 6), 14=61(load case 5), 15=144(load case 5), 16=161(load case 5), 13=141(load case 6), 12=166(load case 6)

Max Grav 2=520(load case 9), 10=520(load case 10), 14=424(load case 1), 15=281(load case 9), 16=464(load case 9), 13=281(load case 10), 12=464(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-16/99, 2-3=-45/35, 3-4=-56/149, 4-17=-17/102, 5-17=0/109, 5-6=-9/155, 6-7=-9/155, 7-18=0/109, 8-18=-17/102, 8-9=-21/149, 9-10=-28/22, 10-11=-16/99

BOT CHORD 2-16=-55/118, 15-16=-55/118, 14-15=-55/118, 13-14=-55/118, 12-13=-55/118, 10-12=-55/118

WEBS 6-14=-352/75, 5-15=-245/171, 4-16=-353/220, 7-13=-245/171, 8-12=-353/220

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 2, 297 lb uplift at joint 10, 61 lb uplift at joint 14, 144 lb uplift at joint 15, 161 lb uplift at joint 16, 141 lb uplift at joint 13 and 166 lb uplift at joint 12.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-17=-114(F=-60), 6-17=-141(F=-87), 6-18=-141(F=-87), 11-18=-114(F=-60), 2-10=-30

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T12	COMMON	3	1	Job Reference (optional)

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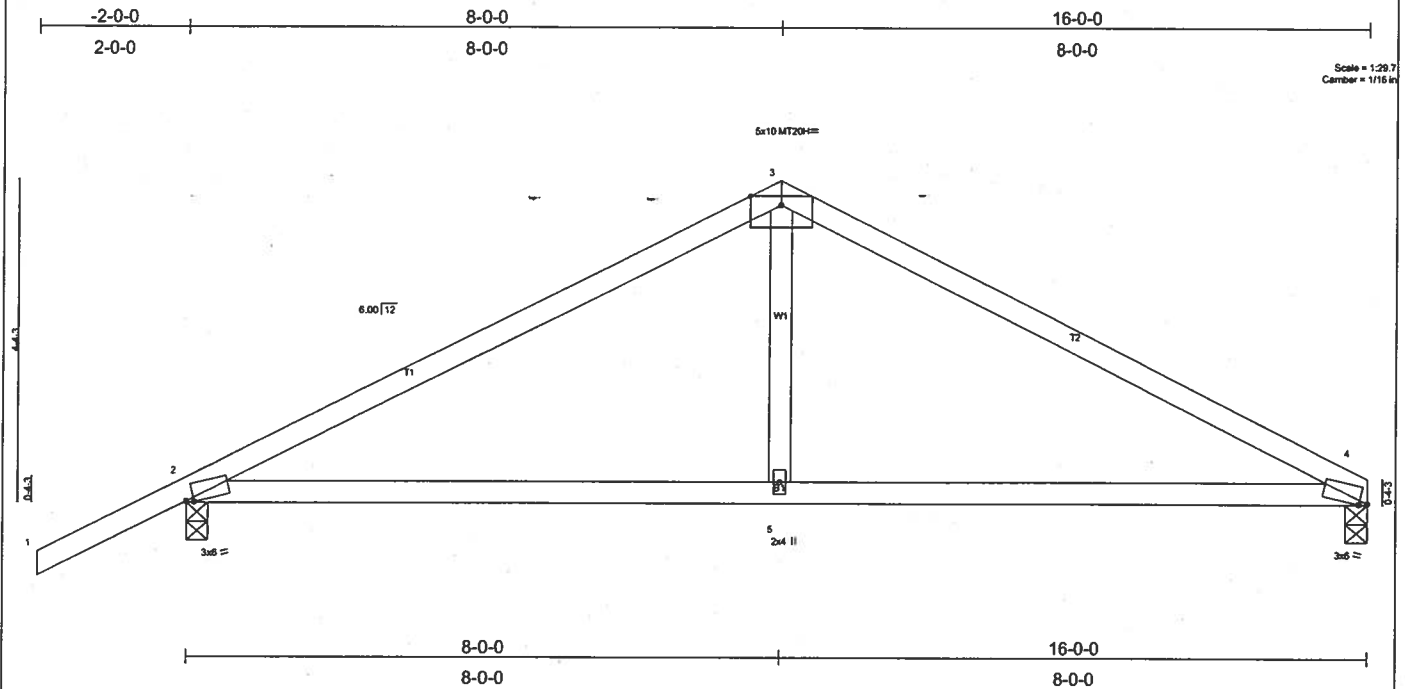


Plate Offsets (X,Y): [2:0-1-5,0-0-7], [4:0-1-5,0-0-7]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.47	Vert(LL)	-0.16	4-5	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.59	Vert(TL)	-0.25	4-5	>754	180	MT20H	187/143
BCCL 10.0	Rep Stress Incr YES	WB 0.10	Horz(TL)	0.02	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 60 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 5-9-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=652/0-3-8, 2=784/0-3-8
 Max Horz 2=119(load case 5)
 Max Uplift 4=211(load case 6), 2=345(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=955/402, 3-4=951/396
 BOT CHORD 2-5=-242/775, 4-5=-242/775
 WEBS 3-5=0/307

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 MT20 plates unless otherwise indicated.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 4 and 345 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T13	COMMON	5	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 Mitek Industries, Inc. Tue Feb 07 08:19:31 2006 Page 1		

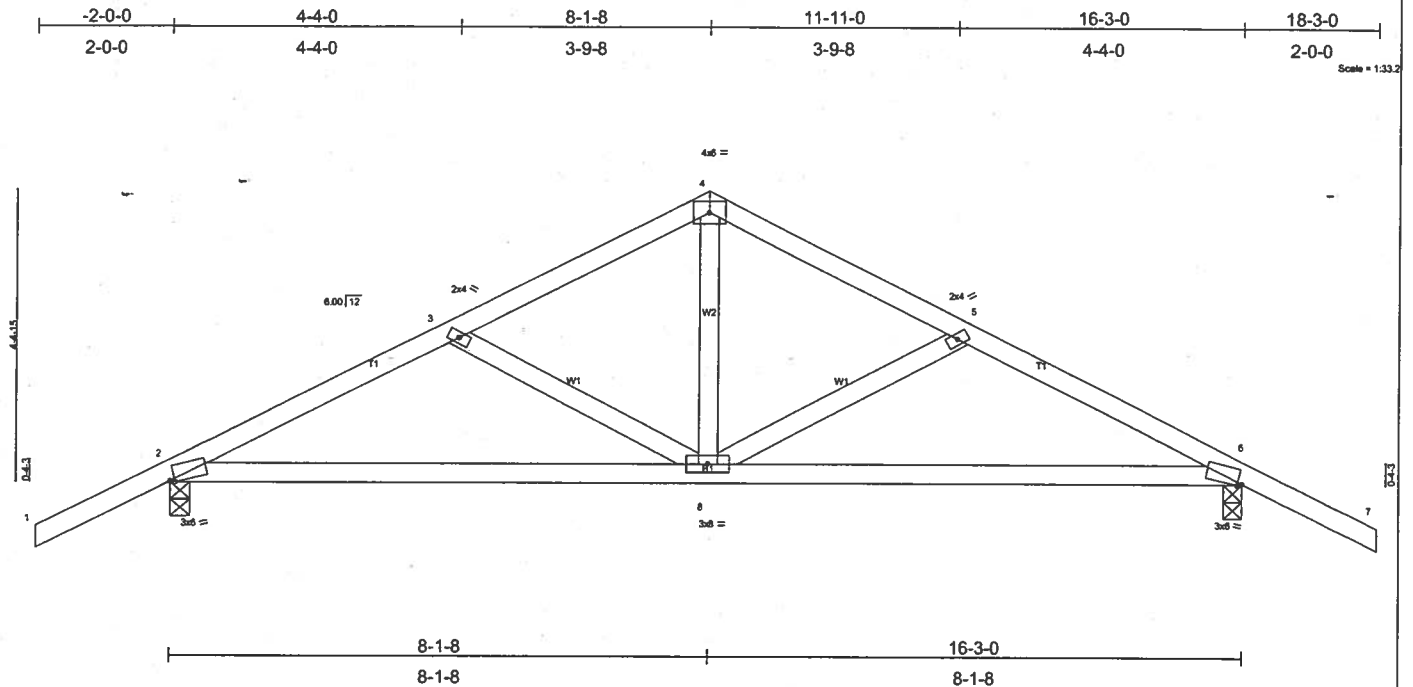


Plate Offsets (X,Y): [2-0-0-13,Edge], [6-0-0-13,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCDL 20.0	Plates Increase 1.25	TC 0.29	Vert(LL) -0.08	6-8	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.38	Vert(TL) -0.13	6-8	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.15	Horz(TL) 0.02	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

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=786/0-3-8, 6=786/0-3-8

Max Horz 2=95(load case 5)

Max Uplift 2=345(load case 5), 6=345(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-1028/431, 3-4=-809/340, 4-5=-809/340, 5-6=-1028/431, 6-7=0/47

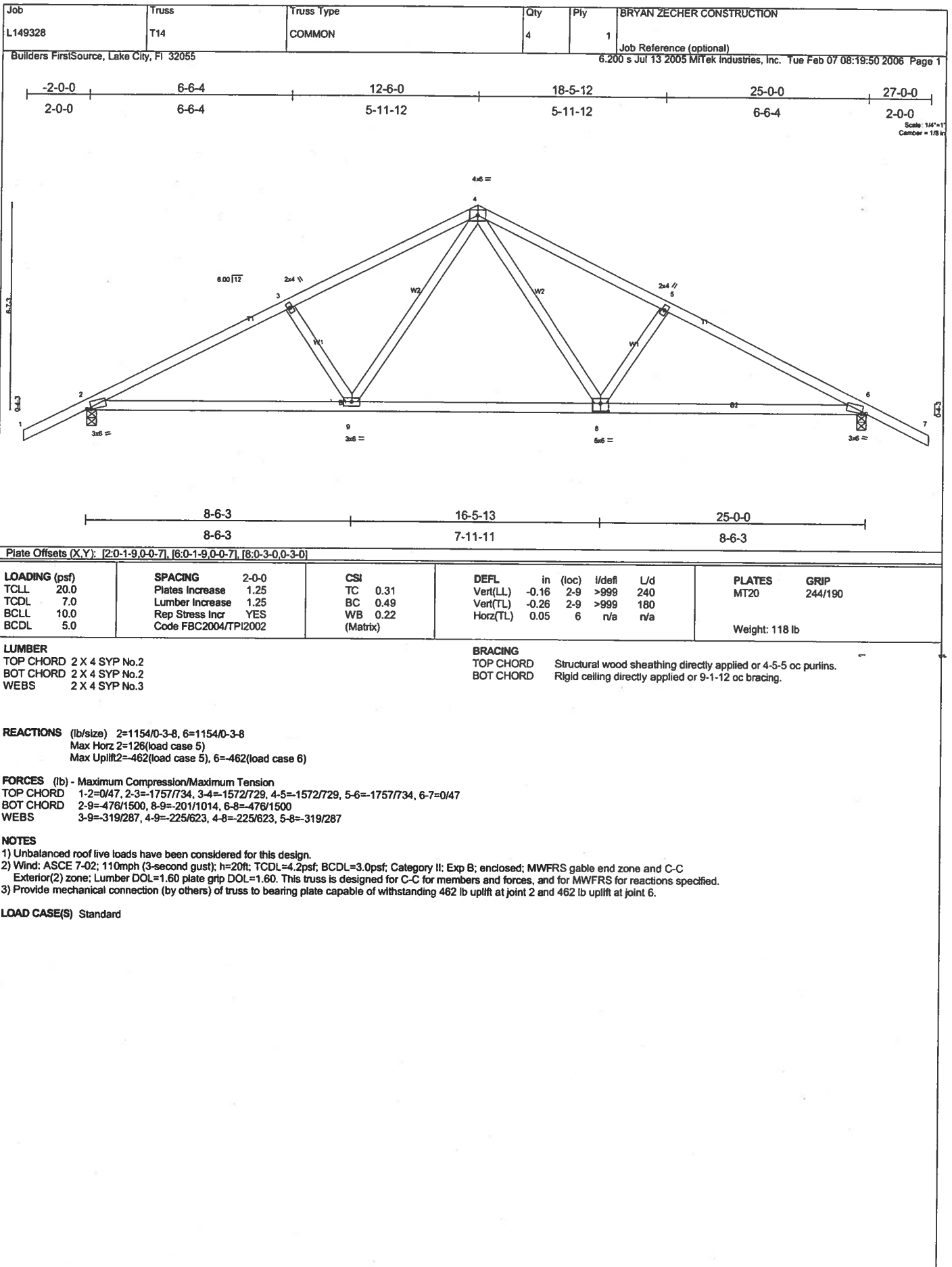
BOT CHORD 2-8=-247/879, 6-8=-227/879

WEBS 3-8=-243/187, 4-8=-106/468, 5-8=-243/187

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 2 and 345 lb uplift at joint 6.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T14G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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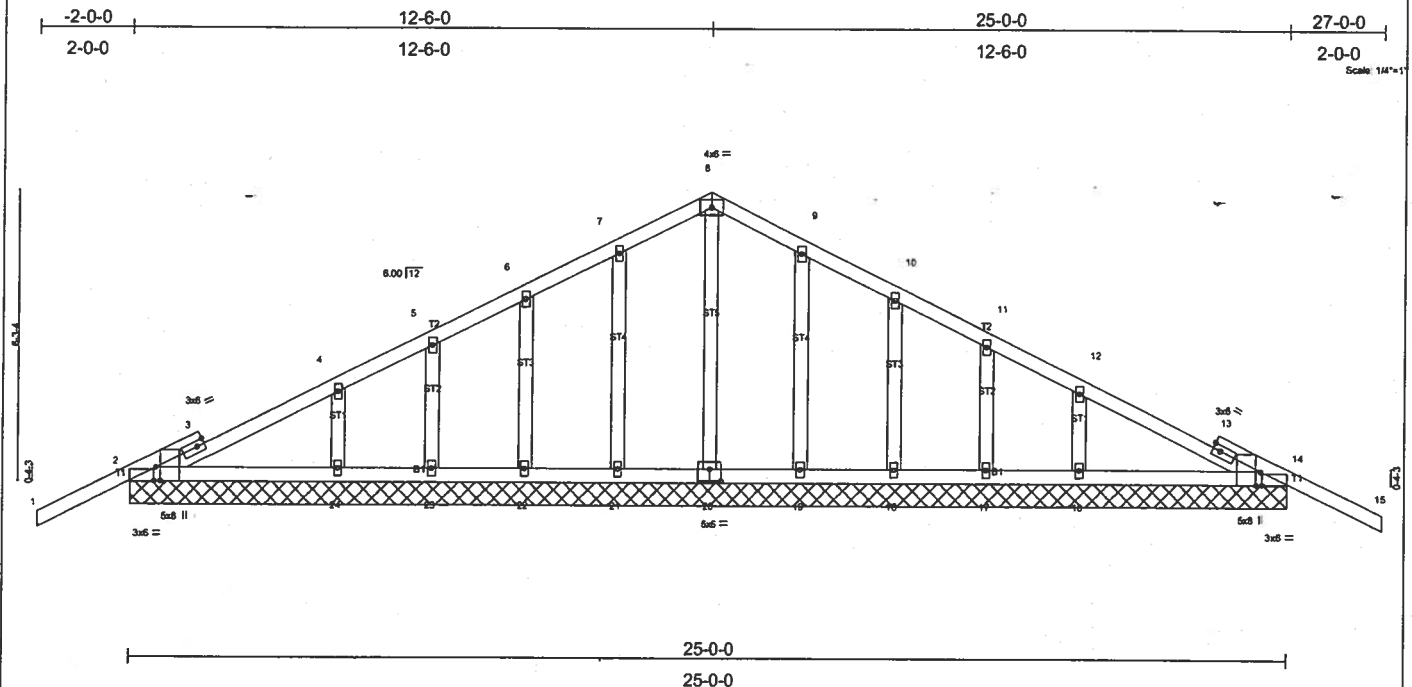


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [14:0-3-8,Edge], [14:0-0-8,Edge], [20:0-3-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	l/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.49	Vert(LL)	-0.02	15	n/r	120	
TCDL 7.0	Lumber Increase 1.25	BC 0.12	Vert(TL)	-0.03	15	n/r	90	
BCLL 10.0	Rep Stress Incr NO	WB 0.19	Horz(TL)	0.01	14	n/a	n/a	
BCDL 5.0	Code FBC2004/TP12002	(Matrix)						
							Weight: 136 lb	

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

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

REACTIONS (lb/size) 2=528/25-0-0, 14=528/25-0-0, 20=361/25-0-0, 21=287/25-0-0, 22=312/25-0-0, 23=181/25-0-0, 24=540/25-0-0, 19=287/25-0-0, 18=312/25-0-0, 17=181/25-0-0, 16=540/25-0-0
 Max Horz 2=-121(load case 6)
 Max Uplift 2=264(load case 5), 14=-282(load case 6), 21=-127(load case 5), 22=-139(load case 5), 23=-110(load case 5), 24=-191(load case 5), 19=-124(load case 6), 18=-140(load case 6), 17=-107(load case 6), 16=-197(load case 6)
 Max Grav 2=532(load case 9), 14=532(load case 10), 20=361(load case 1), 21=290(load case 9), 22=312(load case 1), 23=181(load case 1), 24=541(load case 9), 19=290(load case 10), 18=312(load case 1), 17=181(load case 1), 16=541(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-15/99, 2-3=-109/37, 3-4=-122/190, 4-5=-39/112, 5-6=-1/143, 6-7=0/162, 7-8=0/214, 8-9=0/214, 9-10=0/162, 10-11=0/143, 11-12=-2/112, 12-13=-74/190, 13-14=-61/29, 14-15=-15/99
 BOT CHORD 2-24=-77/170, 23-24=-77/170, 22-23=-77/170, 21-22=-77/170, 20-21=-77/170, 19-20=-77/170, 18-19=-77/170, 17-18=-77/170, 16-17=-77/170, 14-16=-77/170
 WEBS 8-20=-299/12, 7-21=-233/151, 6-22=-243/174, 5-23=-157/132, 4-24=-404/243, 9-19=-233/151, 10-18=-243/174, 11-17=-157/132, 12-16=-404/243

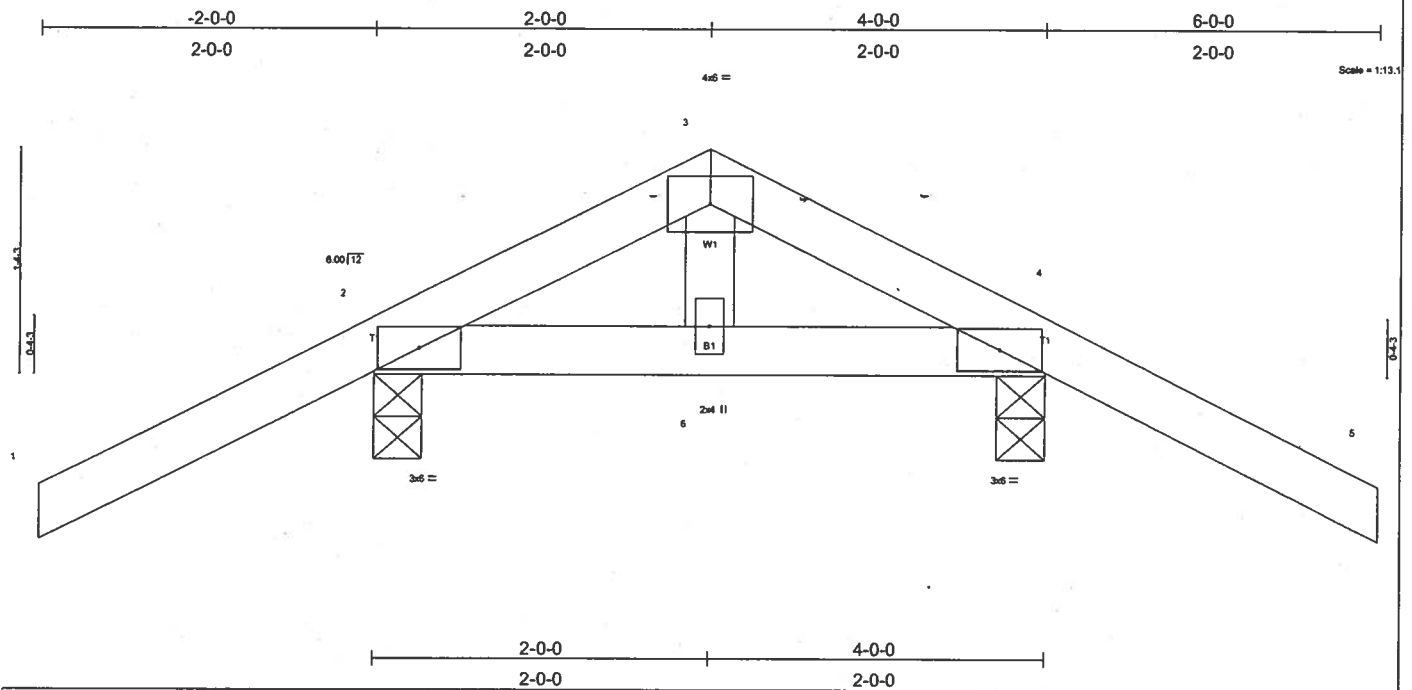
NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- 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"
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2, 282 lb uplift at joint 14, 127 lb uplift at joint 21, 139 lb uplift at joint 22, 110 lb uplift at joint 23, 191 lb uplift at joint 24, 124 lb uplift at joint 19, 140 lb uplift at joint 18, 107 lb uplift at joint 17 and 197 lb uplift at joint 16.
- 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-8=-114(F=-60), 8-15=-114(F=-60), 2-14=-30

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T15	COMMON	4	1	Job Reference (optional)
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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2'-0"	TC 0.29	in (loc) l/defi L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.05	Vert(LL) -0.00 2 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.02	Vert(TL) -0.00 6 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 4 n/a n/a		
	Code FBC2004/TP12002			Weight: 21 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 4'-0" oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 2=272/0-3-8, 4=272/0-3-8
 Max Horz 2=52(load case 5)
 Max Uplift 2=246(load case 5), 4=-246(load case 6)
 Max Grav 2=278(load case 9), 4=278(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-103/80, 3-4=-103/80, 4-5=0/47
 BOT CHORD 2-6=0/99, 4-6=0/99
 WEBS 3-6=-130/66

NOTES

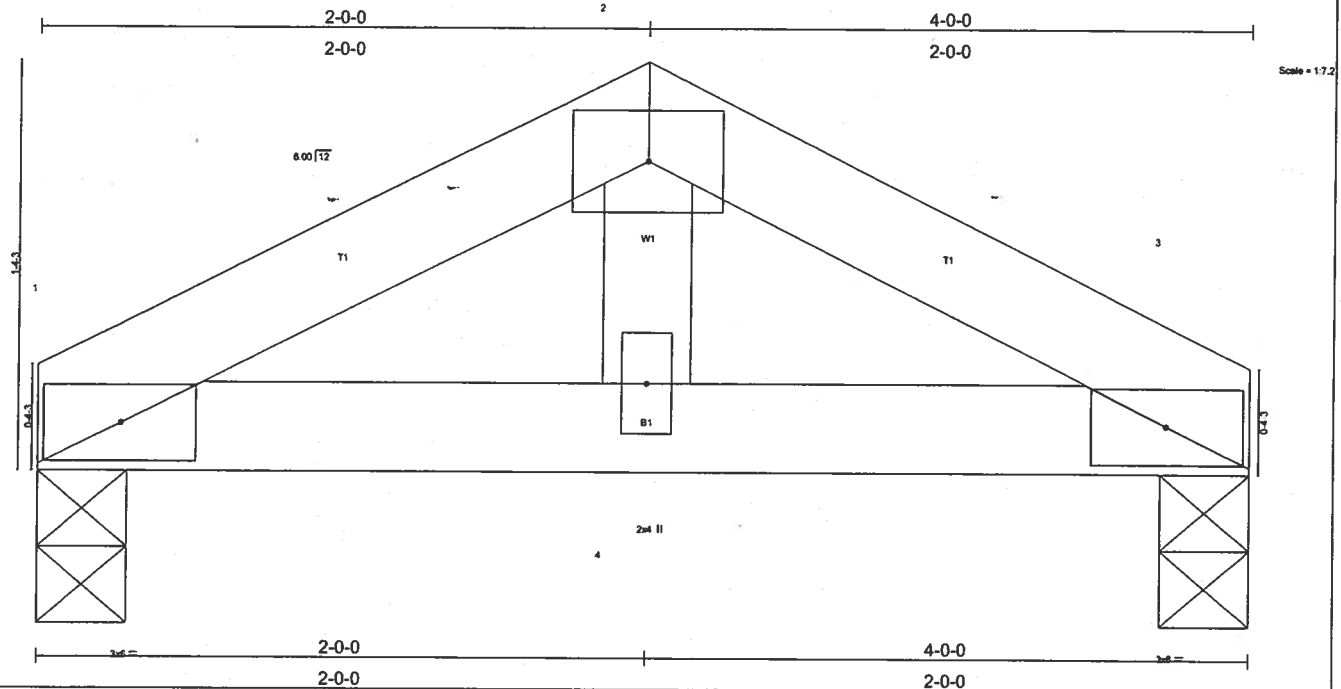
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss 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 246 lb uplift at joint 2 and 246 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T16	COMMON	4x5 = 1	1	Job Reference (optional)

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.06	Vert(LL)	-0.00	4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.14	Vert(TL)	-0.01	4	>999	180		
BCLL 10.0	Rep Stress Incr	NO	WB 0.09	Horz(TL)	0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(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 4-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 1=339/0-3-8, 3=339/0-3-8
 Max Horz 1=15(load case 3)
 Max Uplift 1=166(load case 4), 3=166(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-406/190, 2-3=-406/190
 BOT CHORD 1-4=-146/338, 3-4=-146/338
 WEBS 2-4=-123/280

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 1 and 166 lb uplift at joint 3.
- 4) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 4-0-0
- 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, 2-3=-54, 1-3=-129(F=99)

Job L149328	Truss T17	Truss Type HIP	Qty 1	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)

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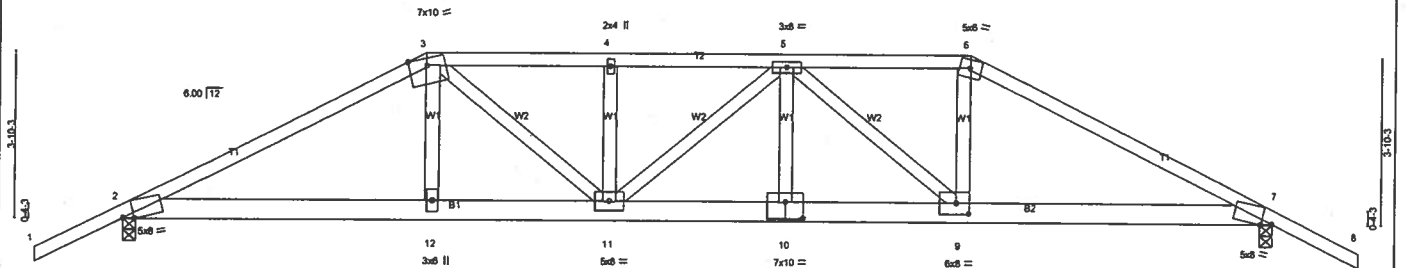
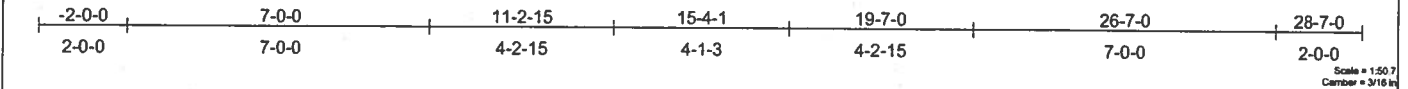


Plate Offsets (X,Y): [2-0-2-15,0-0-14], [7-0-2-15,0-0-14], [9-0-3-8,0-3-0], [10-0-5-0,0-4-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.60	Vert(LL) 0.26 10-11 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.61	Vert(TL) -0.42 10-11 >757 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.10 7 n/a n/a		
	Code FBC2004/TP12002			Weight: 151 lb	

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

BRACING
 TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purins.
 BOT CHORD Rigid ceiling directly applied or 5-2-4 oc bracing.

REACTIONS (lb/size) 2=2376/0-3-8, 7=2376/0-3-8
 Max Horz 2=89(load case 4)
 Max Uplift 2=1366(load case 4), 7=1366(load case 5)

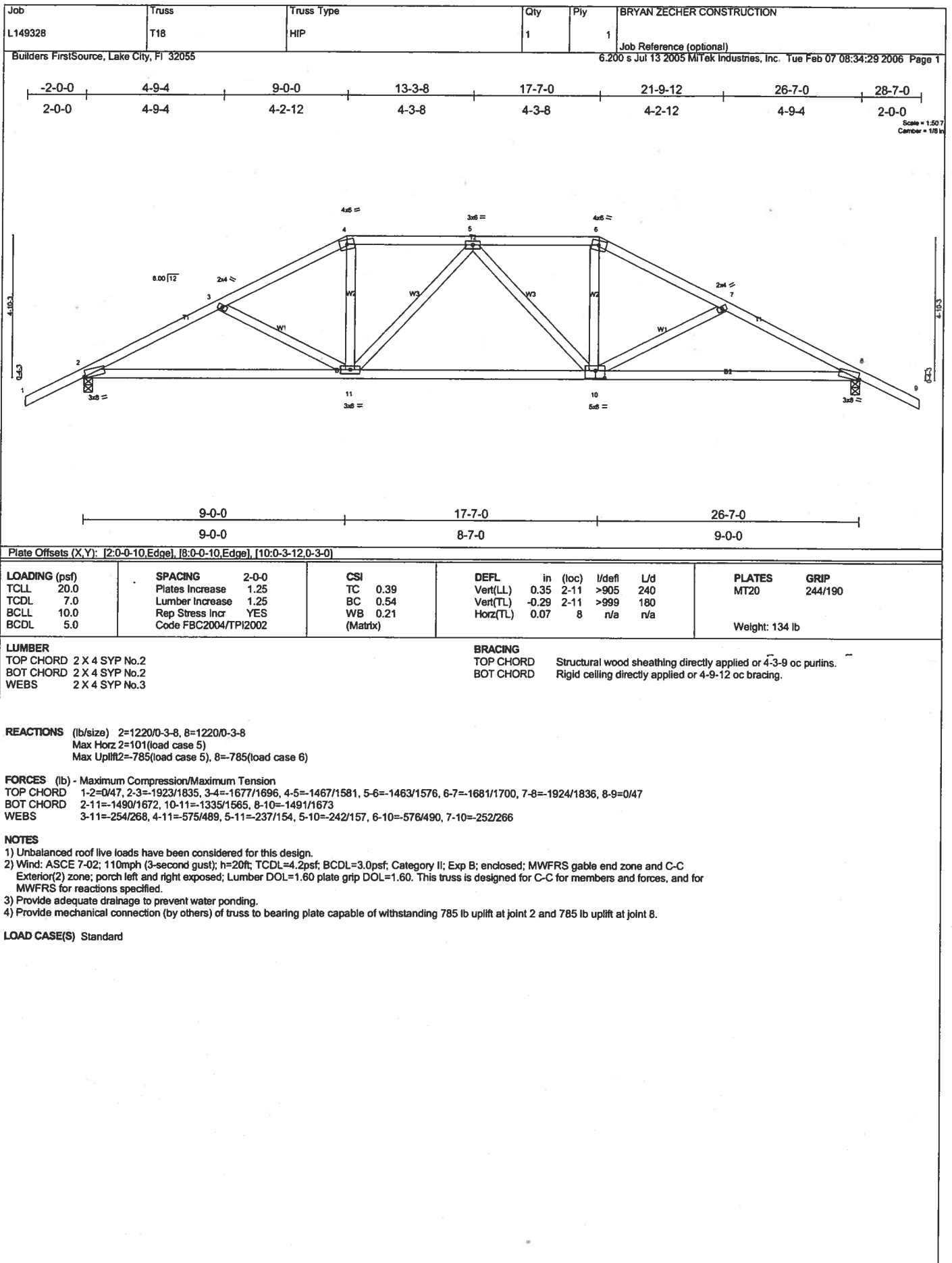
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/51, 2-3=4489/2419, 3-4=4842/2709, 4-5=4841/2709, 5-6=3991/2228, 6-7=4480/2413, 7-8=0/51
 BOT CHORD 2-12=-2119/3934, 11-12=-2135/3968, 10-11=-2628/4863, 9-10=-2628/4863, 7-9=-2074/3926
 WEBS 3-12=404/811, 3-11=727/1233, 4-11=498/409, 5-11=64/39, 5-10=60/287, 5-9=-1247/740, 6-9=-837/1577

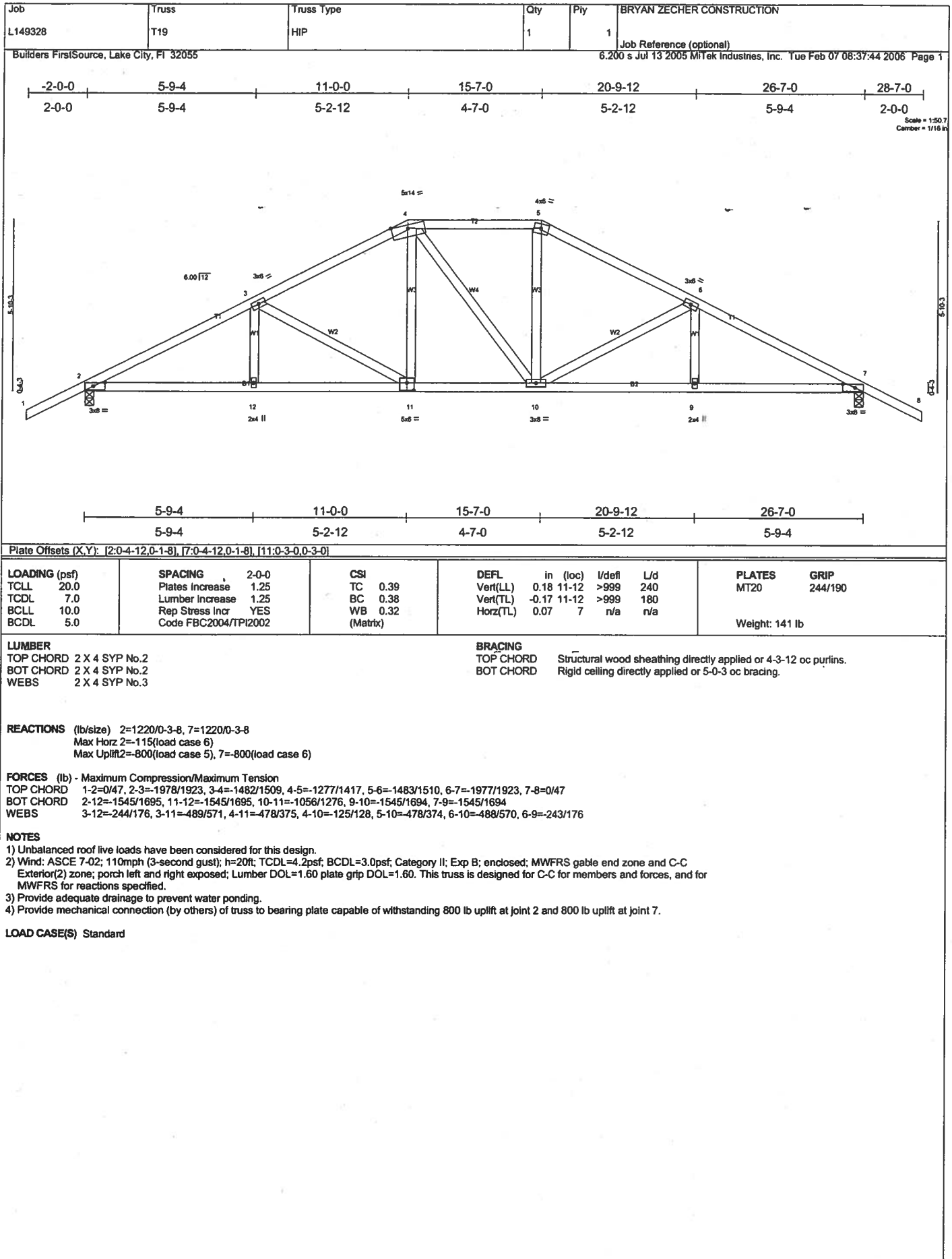
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1366 lb uplift at joint 2 and 1366 lb uplift at joint 7.
- Girder carries hip end with 7-0-0 end setback.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 19-7-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-54, 3-6=-118(F=-64), 6-8=-54, 2-12=-30, 9-12=-65(F=-35), 7-9=-30
 Concentrated Loads (lb)
 Vert: 12=-539(F) 9=-539(F)





Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T20	HIP	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MITek Industries, Inc. Tue Feb 07 08:34:11 2006 Page 1		

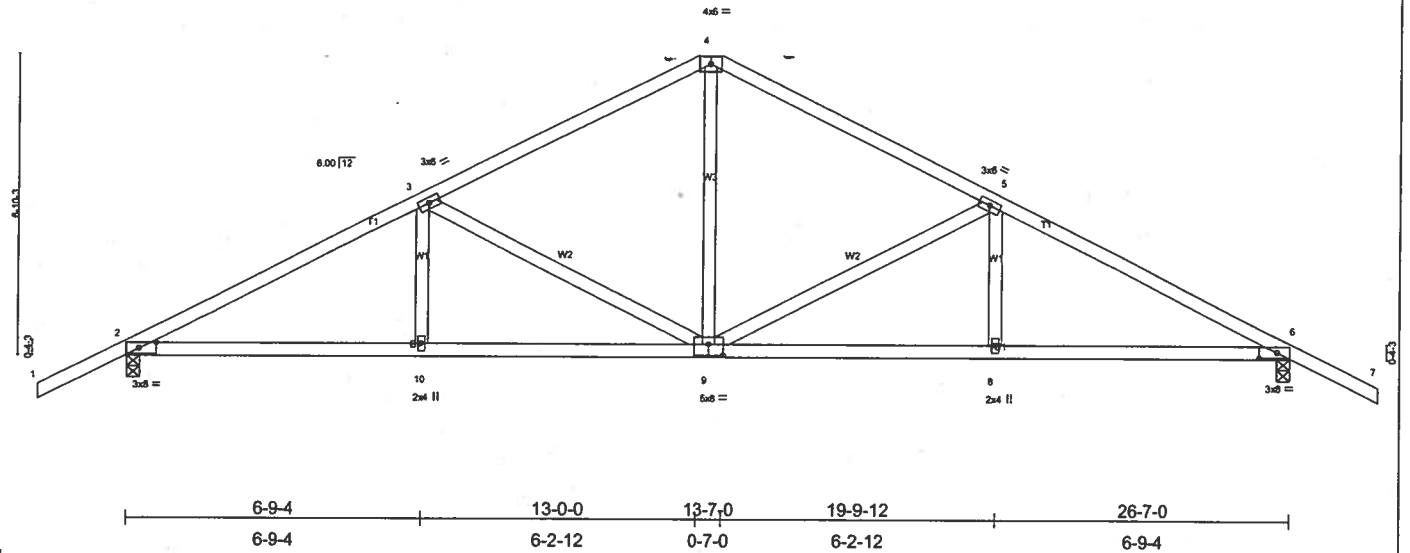
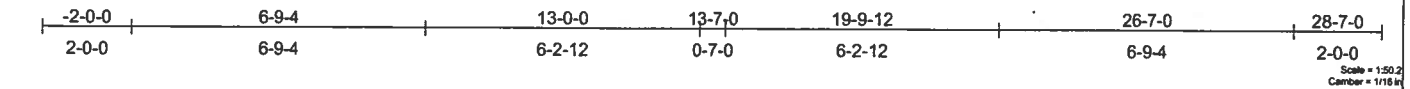


Plate Offsets (X,Y): [2-0-4-12,0-1-8], [6-0-4-12,0-1-8], [9-0-4-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.45	Vert(LL) 0.21	9-10	>999	240		MT20	244/190
TCCL 7.0	Lumber Increase 1.25	BC 0.43	Vert(TL) -0.19	9-10	>999	180			
BCCL 10.0	Rep Stress Incr YES	WB 0.74	Horz(TL) 0.07	6	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 4-2-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 4-11-12 oc bracing.

REACTIONS (lb/size) 2=1220/0-3-8, 6=1220/0-3-8
 Max Horz 2=131(load case 6)
 Max Uplift 2=813(load case 5), 6=813(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=1937/1895, 3-4=1321/1373, 4-5=1321/1373, 5-6=1937/1895, 6-7=0/47
 BOT CHORD 2-10=1511/1653, 9-10=1511/1653, 8-9=1511/1653, 6-8=1511/1653
 WEBS 3-10=298/214, 3-9=637/712, 5-9=637/712, 5-8=298/214, 4-9=941/761

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 813 lb uplift at joint 2 and 813 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T21	COMMON	4	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 08:38:33 2006 Page 1		

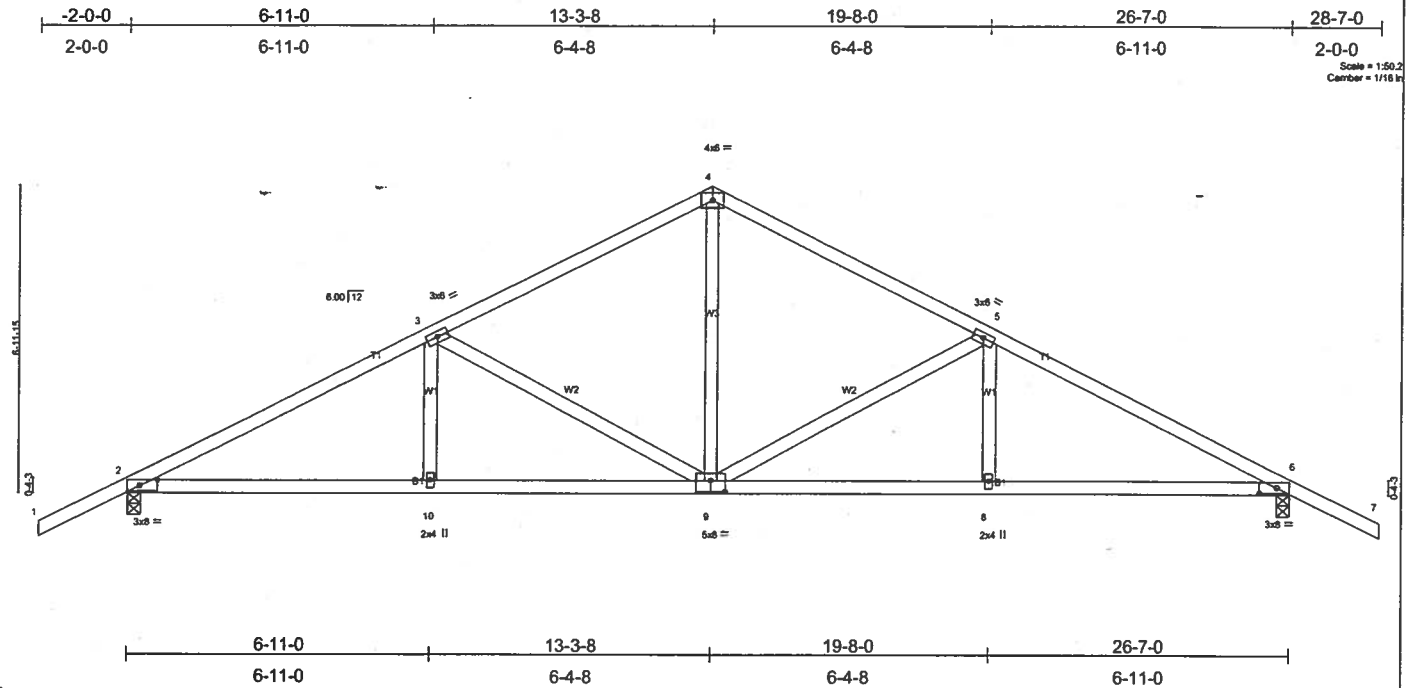


Plate Offsets (X,Y): [2:0-4-12,0-1-8], [6:0-4-12,0-1-8], [9:0-4-0,0-3-0]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.44	Vert(LL) 0.20 2-10 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.74	Vert(TL) -0.19 2-10 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.07 6 n/a n/a		
	Code FBC2004/TP12002			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 4-2-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 4-11-11 oc bracing.

REACTIONS (lb/size) 2=1220/0-3-8, 6=1220/0-3-8
 Max Horz 2=-131(load case 6)
 Max Uplift 2=813(load case 5), 6=813(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-1928/1885, 3-4=-1317/1371, 4-5=-1317/1371, 5-6=-1928/1885, 6-7=0/47
 BOT CHORD 2-10=-1500/1644, 9-10=-1500/1644, 8-9=-1500/1644, 6-8=-1500/1644
 WEBS 3-10=-302/217, 3-9=-634/711, 4-9=-951/771, 5-9=-634/711, 5-8=-302/217

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 813 lb uplift at joint 2 and 813 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T21G	COMMON	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 08:39:26 2006 Page 1		

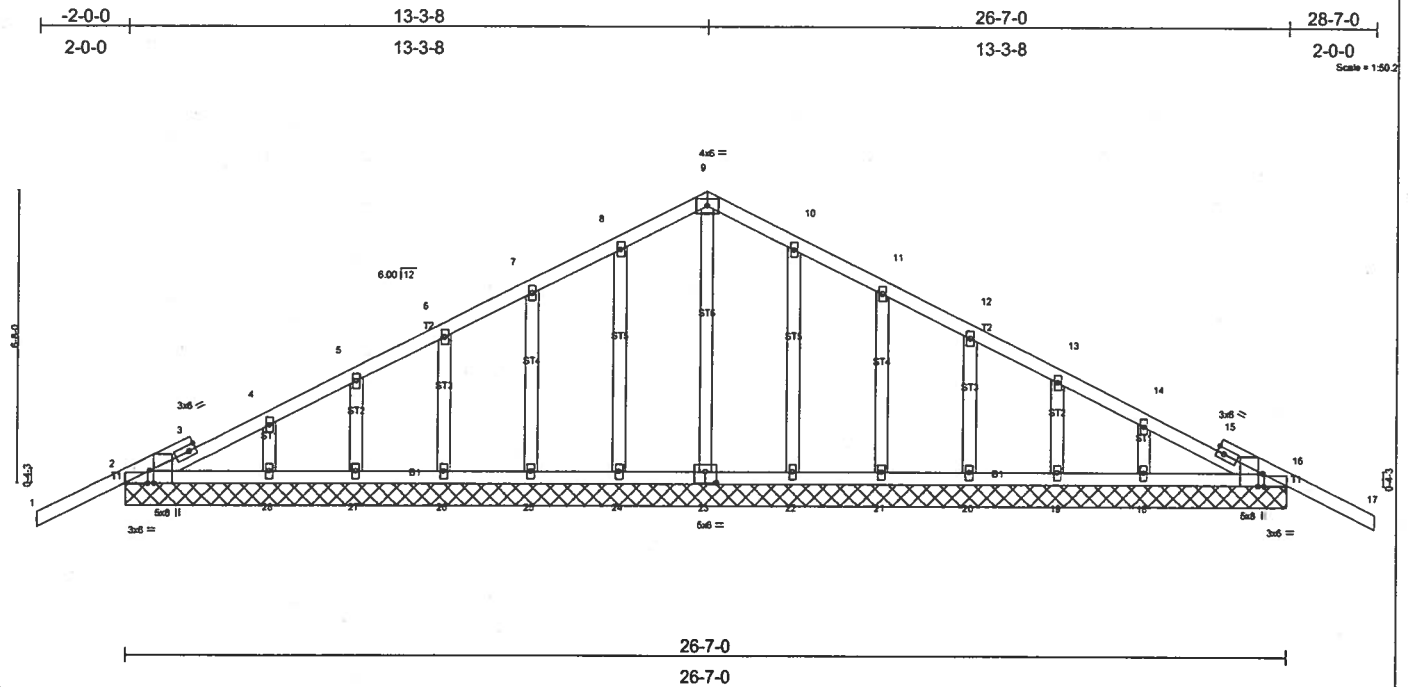


Plate Offsets (X,Y): [2-0-3-8, Edge], [2-0-0-8, Edge], [16-0-3-8, Edge], [16-0-0-8, Edge], [23-0-3-0, 0-3-0]					
LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/def
TCLL 20.0	Plates Increase 1.25	TC 0.49	Vert(LL) -0.04	17	n/r
TCDL 7.0	Lumber Increase 1.25	BC 0.06	Vert(TL) -0.06	17	n/r
BCLL 10.0	Rep Stress Incr NO	WB 0.16	Horz(TL) 0.01	16	n/a
BCDL 5.0	Code FBC2004/TP12002	(Matrix)			
					Weight: 149 lb

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

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

REACTIONS (lb/size) 2=516/26-7-0, 16=516/26-7-0, 23=278/26-7-0, 24=289/26-7-0, 25=287/26-7-0, 26=293/26-7-0, 27=268/26-7-0, 28=351/26-7-0, 22=289/26-7-0, 21=287/26-7-0, 20=293/26-7-0, 19=268/26-7-0, 18=351/26-7-0
 Max Horz 2=-127(load case 6)
 Max Uplift 2=-262(load case 5), 16=-281(load case 6), 24=-125(load case 5), 25=-136(load case 5), 26=-128(load case 5), 27=-145(load case 5), 28=-110(load case 6), 22=-122(load case 6), 21=-137(load case 6), 20=-128(load case 6), 19=-143(load case 6), 18=-103(load case 6)
 Max Grav 2=516(load case 1), 16=516(load case 1), 23=278(load case 1), 24=293(load case 9), 25=287(load case 1), 26=293(load case 9), 27=268(load case 9), 28=351(load case 1), 22=293(load case 10), 21=287(load case 1), 20=293(load case 10), 19=268(load case 10), 18=351(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-15/99, 2-3=92/49, 3-4=101/58, 4-5=-66/84, 5-6=-60/118, 6-7=-61/156, 7-8=-61/215, 8-9=-61/266, 9-10=-61/266, 10-11=-61/215, 11-12=-61/156, 12-13=-60/100, 13-14=-66/40, 14-15=-49/18, 15-16=-81/16, 16-17=-15/99
 BOT CHORD 2-28=0/143, 27-28=0/143, 26-27=0/143, 25-26=0/143, 24-25=0/143, 23-24=0/143, 22-23=0/143, 21-22=0/143, 20-21=0/143, 19-20=0/143, 18-19=0/143, 16-18=0/143
 WEBS 9-23=-218/0, 8-24=-233/149, 7-25=-227/168, 6-26=-231/160, 5-27=-215/168, 4-28=-271/146, 10-22=-233/149, 11-21=-227/168, 12-20=-231/160, 13-19=-215/169, 14-18=-271/146

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 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"
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 2, 281 lb uplift at joint 16, 125 lb uplift at joint 24, 136 lb uplift at joint 25, 128 lb uplift at joint 26, 145 lb uplift at joint 27, 110 lb uplift at joint 28, 122 lb uplift at joint 22, 137 lb uplift at joint 21, 128 lb uplift at joint 20, 143 lb uplift at joint 19 and 103 lb uplift at joint 18.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

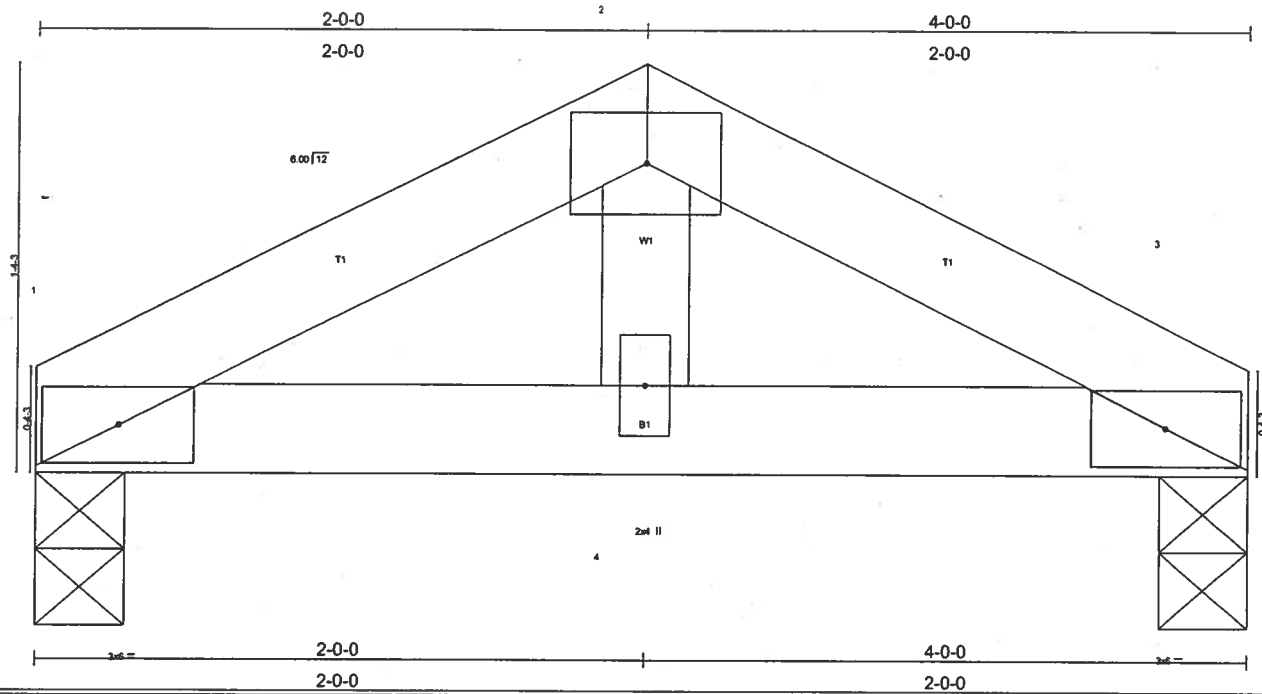
LOAD CASE(S) Standard

- Regular: Lumber increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-9=-114(F=-60), 9-17=-114(F=-60), 2-16=-30

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T22	COMMON	4x5 = 1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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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 0.06	Vert(LL)	-0.00	4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.10	Vert(TL)	-0.00	4	>999	180		
BCLL 10.0	Rep Stress Incr	NO	WB 0.06	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 4 SYP No.3

BRACING

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

REACTIONS

(lb/size) 1=261/0-3-8, 3=261/0-3-8
 Max Horz 1=15(load case 3)
 Max Uplift 1=137(load case 4), 3=137(load case 5)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-312/154, 2-3=-312/154
 BOT CHORD 1-4=-115/255, 3-4=-115/255
 WEBS 2-4=-88/187

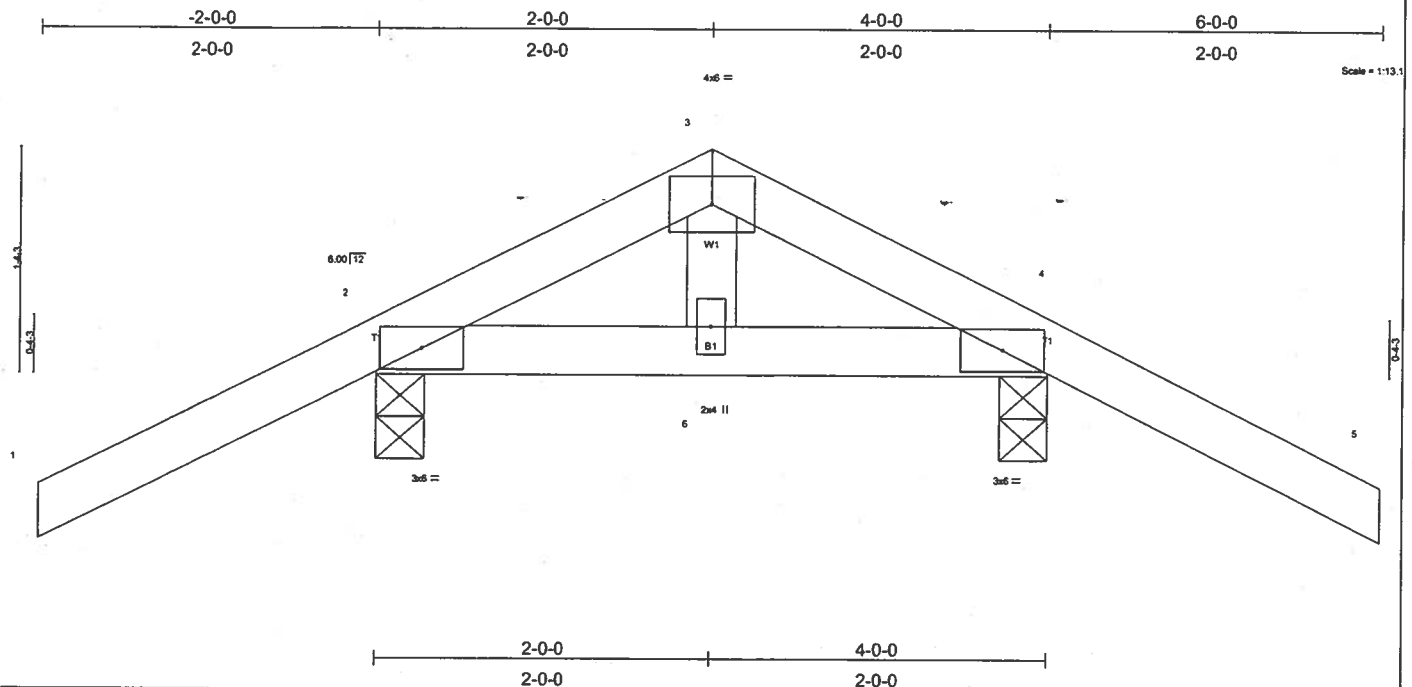
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 1 and 137 lb uplift at joint 3.
- Girder carries tie-in span(s): 5-0-0 from 0-0-0 to 4-0-0
- 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-3=-54, 1-3=-87(F=57)

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T23	COMMON	3	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 08:41:35 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.29	Vert(LL) -0.00	2	>999	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.05	Vert(TL) -0.00	6	>999	180			
BCLL 10.0	Rep Stress Incr YES	WB 0.02	Horz(TL) 0.00	4	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							Weight: 21 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 4-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

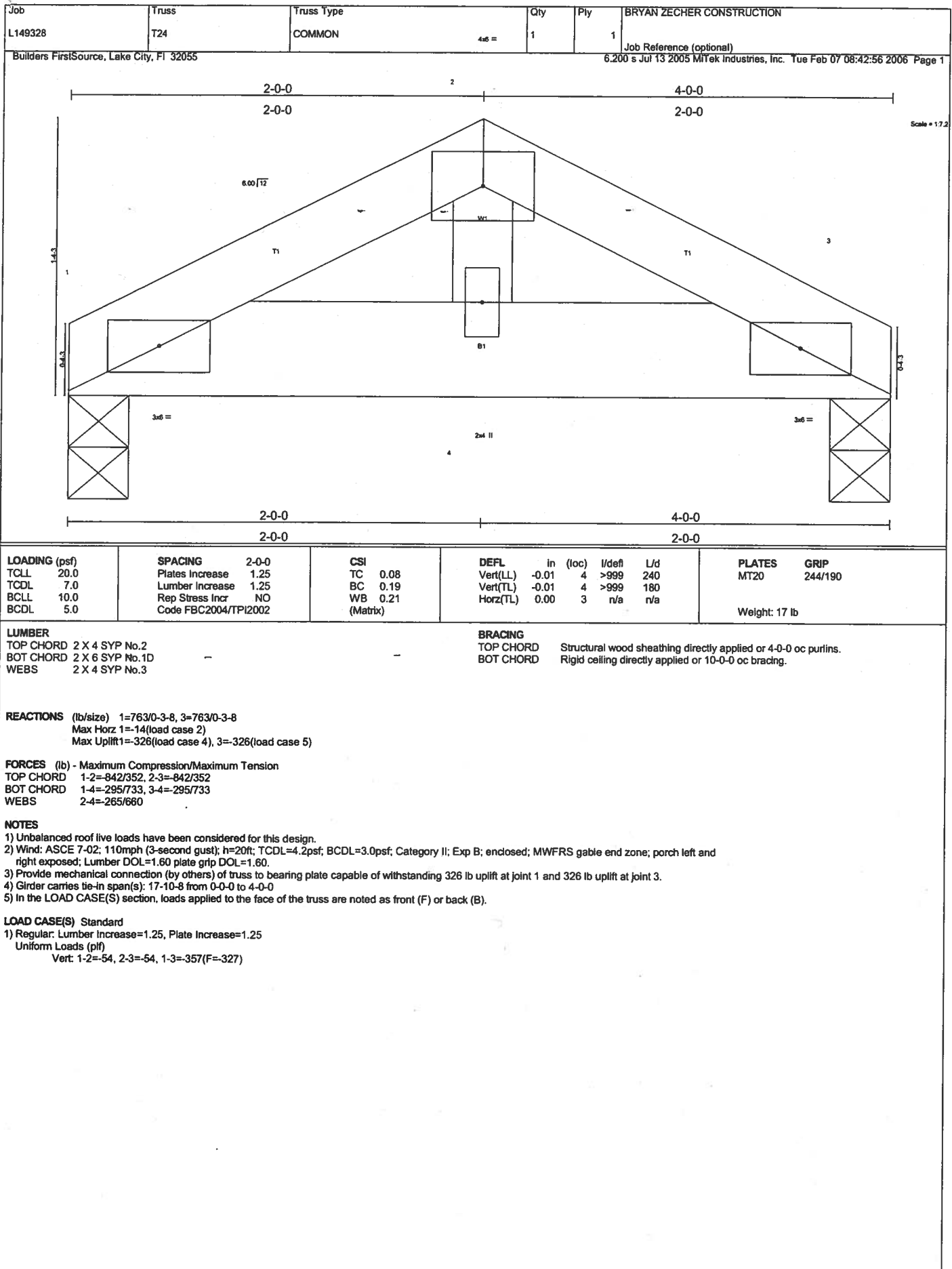
REACTIONS (lb/size) 2=272/0-3-8, 4=272/0-3-8
 Max Horz 2=52(load case 6)
 Max Uplift 2=-246(load case 5), 4=-246(load case 6)
 Max Grav 2=278(load case 9), 4=278(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-103/80, 3-4=-103/80, 4-5=0/47
 BOT CHORD 2-6=0/99, 4-6=0/99
 WEBS 3-6=-130/66

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 2 and 246 lb uplift at joint 4.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T26	COMMON	2	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 Mitek Industries, Inc. Tue Feb 07 08:45:49 2006 Page 1		

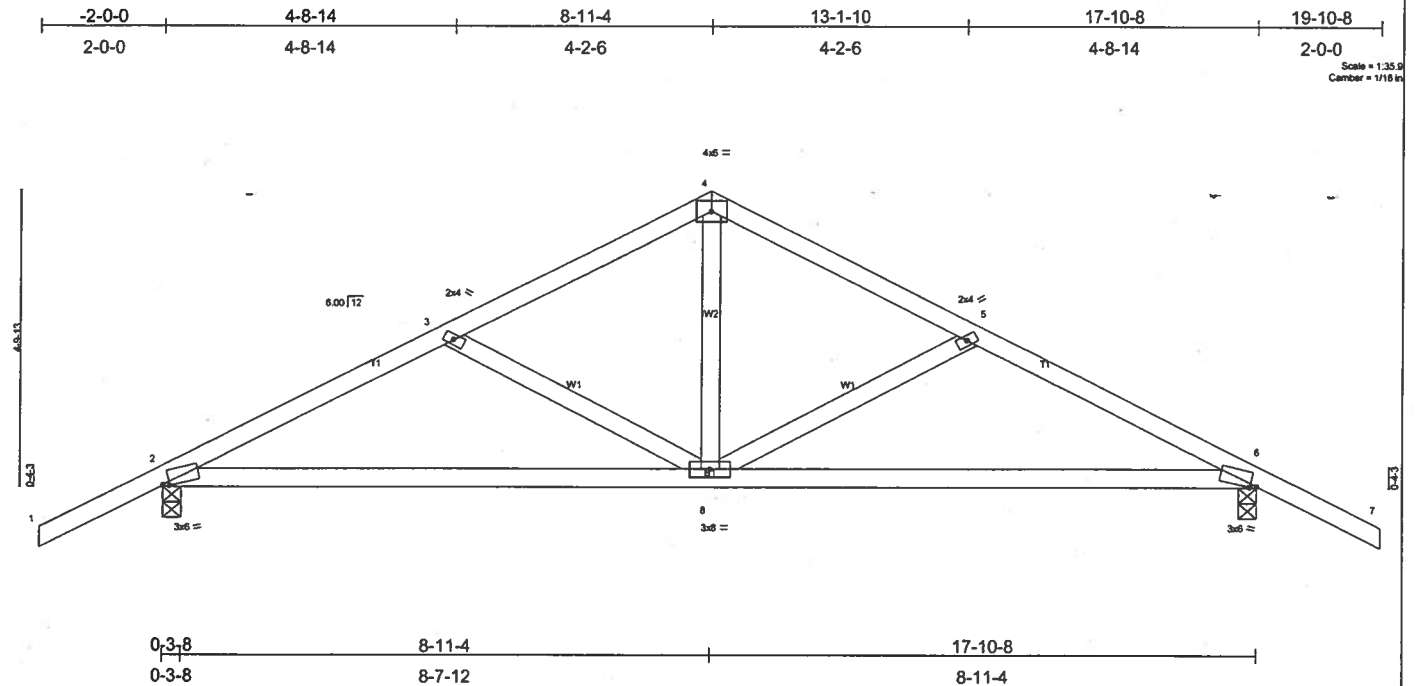


Plate Offsets (X,Y): [2-0-1-5,0-0-7], [6-0-1-5,0-0-7]					
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	PLATES
TCLL 20.0	Plates Increase	1.25	TC 0.29	in (loc) l/defl L/d	GRIP
TCDL 7.0	Lumber Increase	1.25	BC 0.46	Vert(LL) -0.11 6-8 >999 240	MT20 244/190
BCLL 10.0	Rep Stress Incr	YES	WB 0.17	Vert(TL) -0.19 6-8 >999 180	
BCDL 5.0	Code FBC2004/TP12002		(Matrix)	Horz(TL) 0.03 6 n/a n/a	Weight: 83 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 5-7-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=854/0-3-8, 6=854/0-3-8
 Max Horz 2=101(load case 5)
 Max Uplift 2=367(load case 5), 6=367(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-1150/482, 3-4=-902/377, 4-5=-902/377, 5-6=-1150/482, 6-7=0/47
 BOT CHORD 2-8=-289/988, 6-8=-269/988
 WEBS 3-8=-279/212, 4-8=-127/529, 5-8=-279/212

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2 and 367 lb uplift at joint 6.

LOAD CASE(S) Standard

Job L149328	Truss T27	Truss Type SPECIAL	Qty 4	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 13:28:24 2006 Page 1		

2-0-0	2-3-8	8-11-4	15-7-0	17-10-8	19-10-4
1-0-0	2-3-8	6-7-12	6-7-12	2-3-8	2-0-0

Scale = 1:30.5
Camber = 1/4 in

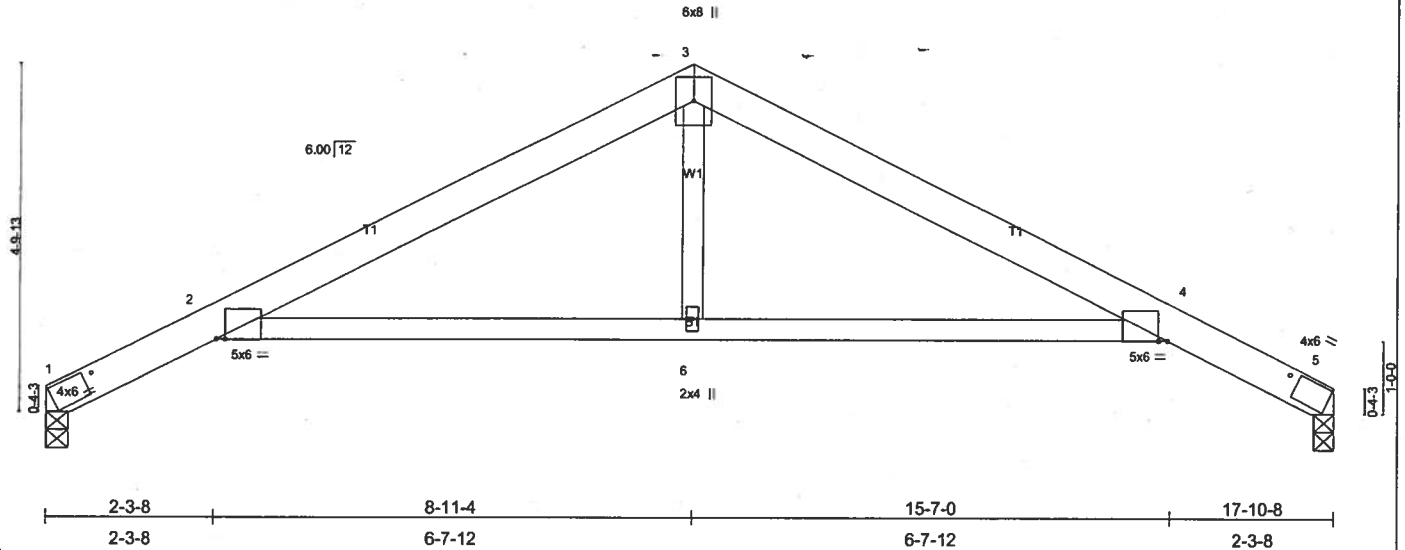


Plate Offsets (X,Y): [2:0-1-8,0-0-0], [4:0-1-8,0-0-0], [4:13-6-13,6-3-3], [4:1-8-14,0-4-4]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.86	Vert(LL)	-0.38	4-6	>557	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.79	Vert(TL)	-0.62	4-6	>341	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.11	Horz(TL)	0.42	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 72 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 6

REACTIONS (lb/size) 1=697/0-3-8, 5=697/0-3-8
Max Horz 1=64(load case 3)
Max Uplift 1=239(load case 5), 5=239(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-280/160, 2-3=-1357/654, 3-4=-1357/654, 4-5=-280/160
BOT CHORD 2-6=-483/1253, 4-6=-483/1253
WEBS 3-6=-38/348

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 239 lb uplift at joint 1 and 239 lb uplift at joint 5.

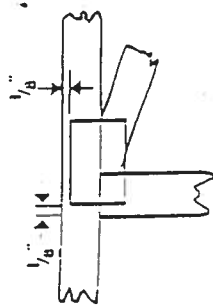
LOAD CASE(S) Standard

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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



PLATE SIZE

4 X 4

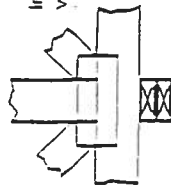
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



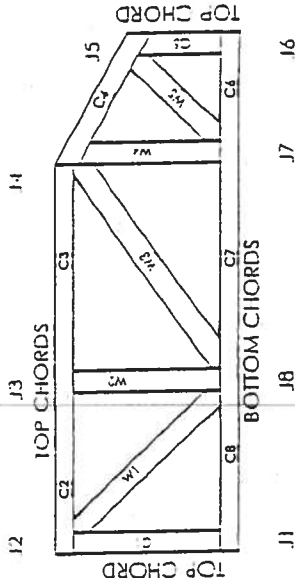
Indicates location of required continuous lateral bracing.

BEARING



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

Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA 96-31, 96-67

ICBO 3907, 4922

SBCCI 9667, 9432A

WISC/DILLIR 960022 W, 970036-11

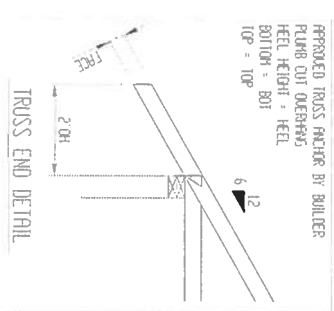
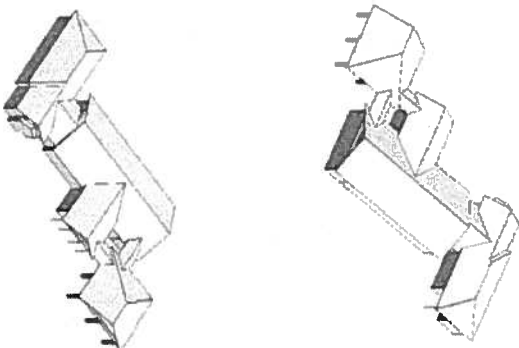
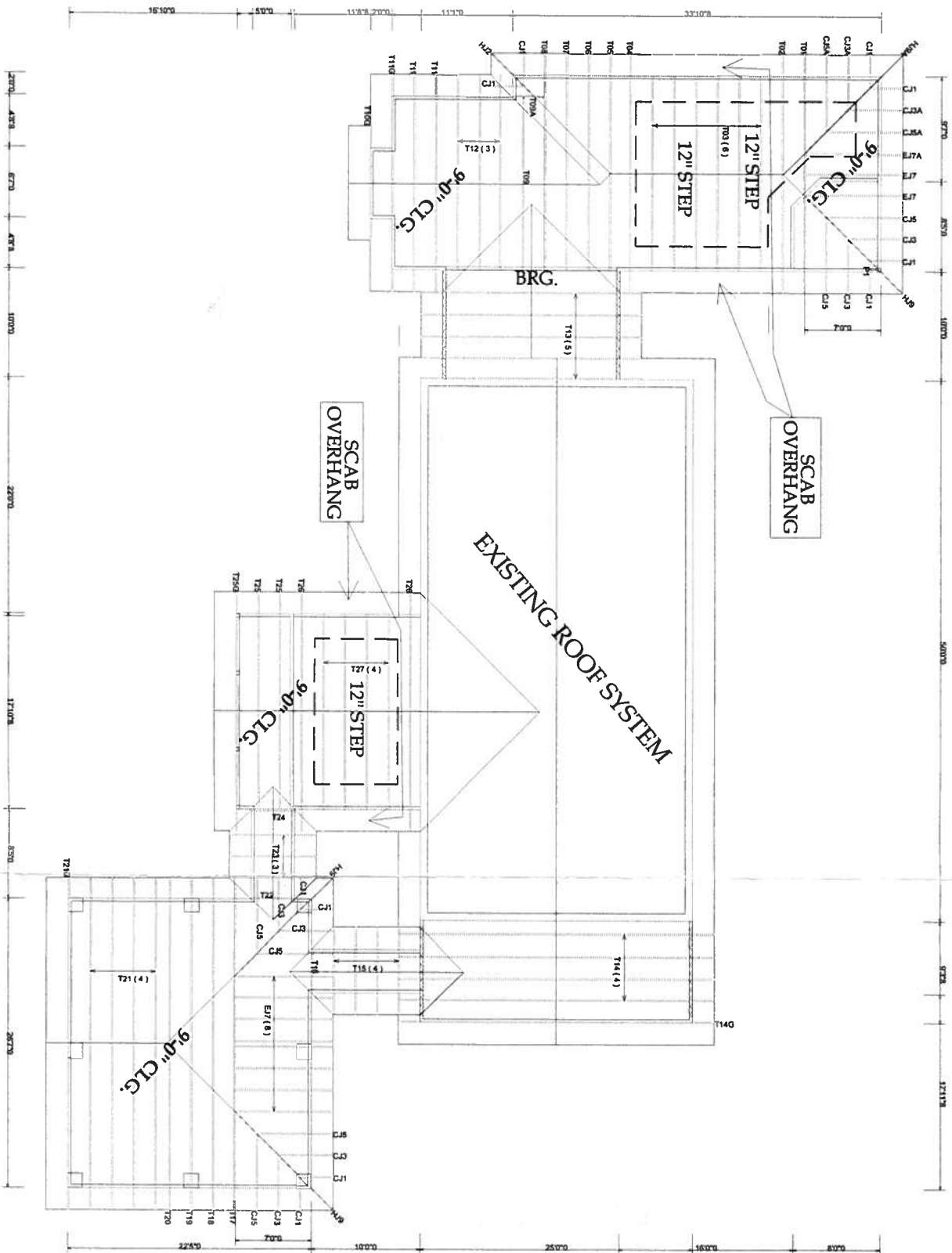
IIR 561



General Safety Notes

Failure to Follow Could Cause Properly 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 1/2 panel length (1 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.



HANGER SCHEDULE
(2) HTU26

BEARING HEIGHT SCHEDULE

9'-0"

8'-0"

OVERHANG
2'-0"
ROOF PITCH(S)
6/12

NOTES:

- 1) REFER TO MD 91 PRECONSTRUCTION FOR HANGING DIMENSIONS AND TOLERANCES. REFER TO ENGINEERED DRAWINGS FOR DIMENSIONAL REQUIREMENTS.
- 2) ALL DIMENSIONS (INCLUDING TRUSS) UNDER VALLEY FLASHING MUST BE COMPLETED AFTER VALLEY FLASHING IS IN PLACE.
- 3) ALL VALLEYS ARE TO BE COMPLETED WITH FLASHING BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 7' OC UNIFORM SPACING. UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING. UNLESS OTHERWISE NOTED.
- 6) 5/42 TRUSSES MUST BE INSTALLED WITH THE TOP BRACKLE UP.
- 7) ALL EAVE TRUSSES HANGERS TO BE 5/8" X 1/2" UNLESS OTHERWISE NOTED. ALL FLOOR TRUSSES HANGERS TO BE 5/8" X 1/2" UNLESS OTHERWISE NOTED.
- 8) 1/4" X 1/2" UNLESS OTHERWISE NOTED.
- 9) 1/4" X 1/2" UNLESS OTHERWISE NOTED.

SHOP DRAWING APPROVAL

THIS DRAWING IS THE SOLE PROPERTY OF BUILDERS FIRSTSOURCE. IT IS TO BE USED FOR THE PROJECT ONLY AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF BUILDERS FIRSTSOURCE. ALL DIMENSIONS AND TOLERANCES ARE TO BE AS SHOWN ON THIS DRAWING. UNLESS OTHERWISE NOTED.

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LAKE CITY

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SAINT PETERSBURG

PHONE: 407-322-0094 FAX: 407-322-0094
SAINT PETERSBURG

BUILDER:
BRYAN ZECHER CONSTRUCTION

LEGAL ADDRESS:
COLUMBIA, FL

MODEL:
CUSTOM

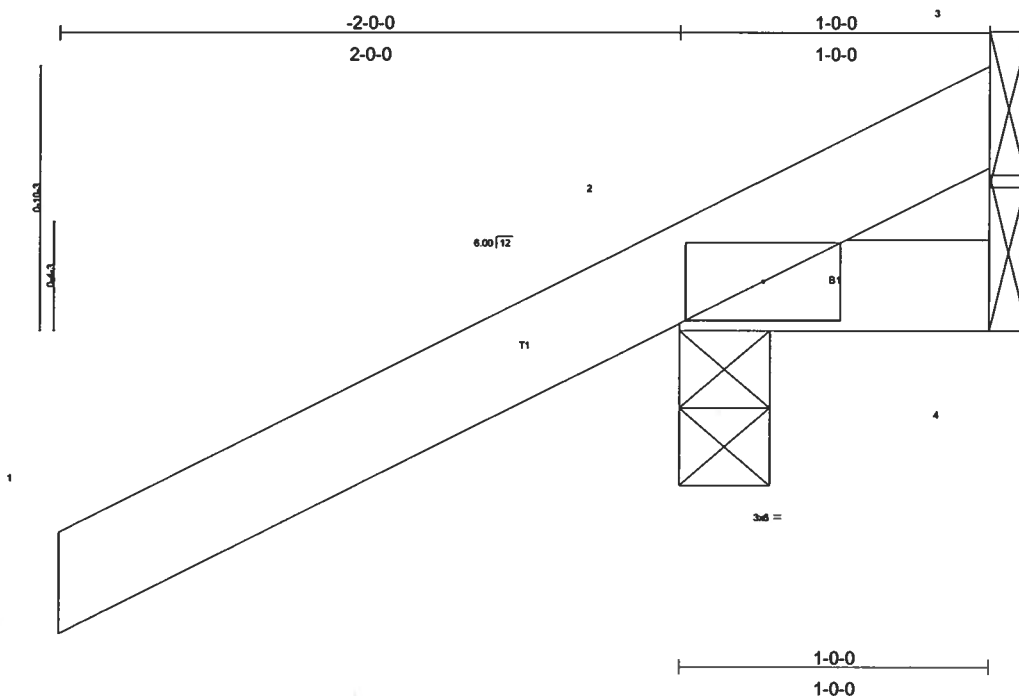
DATE:
02/07/06

SCALE: NTS
JOB #:
L149328

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	CJ1	JACK	10	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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Scale = 1/2

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

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

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

REACTIONS (lb/size) 2=266/0-3-8, 4=14/Mechanical, 3=-90/Mechanical
Max Horz 2=87(load case 5)
Max Uplift 2=-286(load case 5), 4=-9(load case 3), 3=-90(load case 1)
Max Grav 2=266(load case 1), 4=14(load case 1), 3=127(load case 5)

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

NOTES

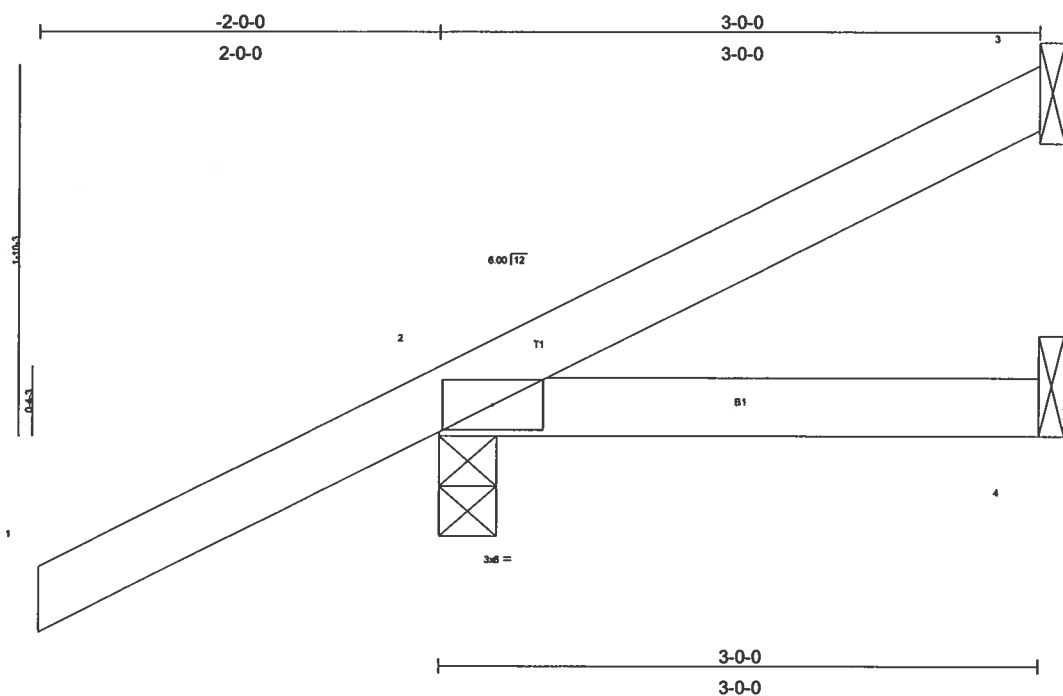
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 2, 9 lb uplift at joint 4 and 90 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	CJ3	JACK	6	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)

TCLL 20.0
TCDL 7.0
BCLL 10.0
BCDL 5.0

SPACING

2-0-0
Plates Increase 1.25
Lumber Increase 1.25
Rep Stress Incr YES
Code FBC2004/TPI2002

CSI

TC 0.29
BC 0.08
WB 0.00
(Matrix)

DEFL

In (loc) l/defl L/d
Vert(LL) 0.01 2-4 >999 240
Vert(TL) 0.01 2-4 >999 180
Horz(TL) -0.00 3 n/a n/a

PLATES

MT20 GRIP 244/190

Weight: 13 lb

LUMBER

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

BRACING

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

REACTIONS

(lb/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical
Max Horz 2=132(load case 5)
Max Uplift 3=-28(load case 6), 2=-238(load case 5), 4=-27(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-57/7
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 3, 238 lb uplift at joint 2 and 27 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	CJ3A	SPECIAL	2	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Feb 06 11:59:28 2006 Page 1		

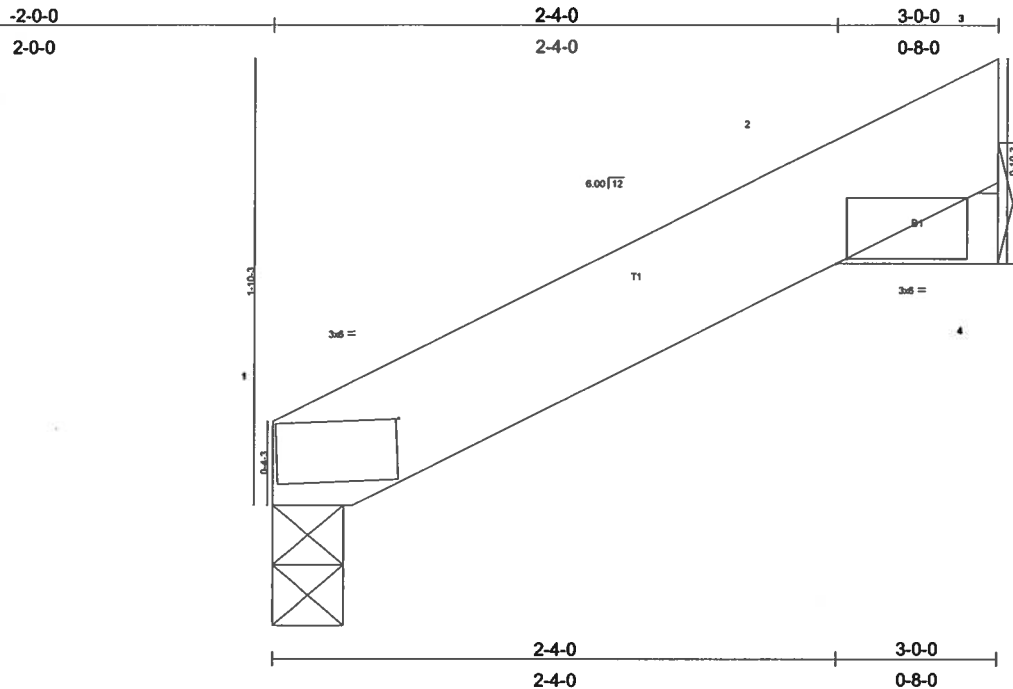


Plate Offsets (X,Y): [2:0-0-8,Edge], [2:1-10-1,0-6-12]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.02	Vert(LL)	0.00	2	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.01	Vert(TL)	0.00	2	n/r	90		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							Weight: 9 lb

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

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

REACTIONS (lb/size) 1=67/0-3-8, 2=138/Mechanical
Max Horz 1=66(load case 5)
Max Uplift 1=13(load case 5), 2=75(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-89/34, 2-3=-20/0
BOT CHORD 2-4=0/0

NOTES

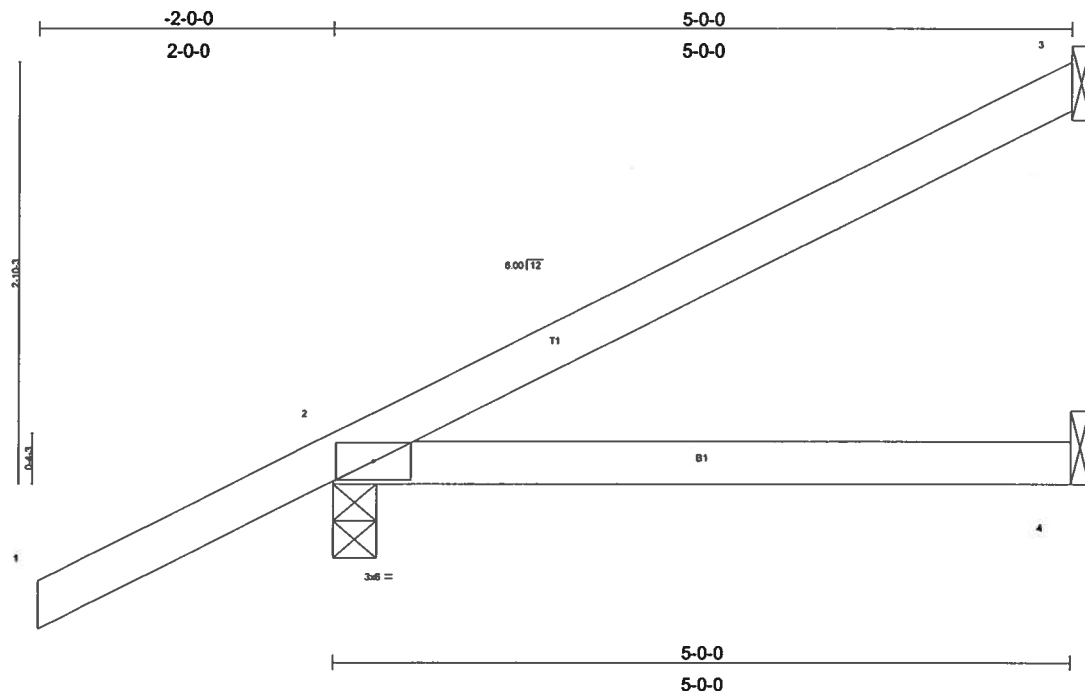
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Bearing at joint(s) 1 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 13 lb uplift at joint 1 and 75 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	CJ5	JACK	6	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055

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LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.29	Vert(LL)	0.09	2-4	>663	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.24	Vert(TL)	0.07	2-4	>774	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
								Weight: 19 lb	

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

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

REACTIONS (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift 3=87(load case 5), 2=-260(load case 5), 4=-46(load case 3)

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

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 260 lb uplift at joint 2 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	CJ5A	SPECIAL	2	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Feb 06 11:56:21 2006 Page 1		

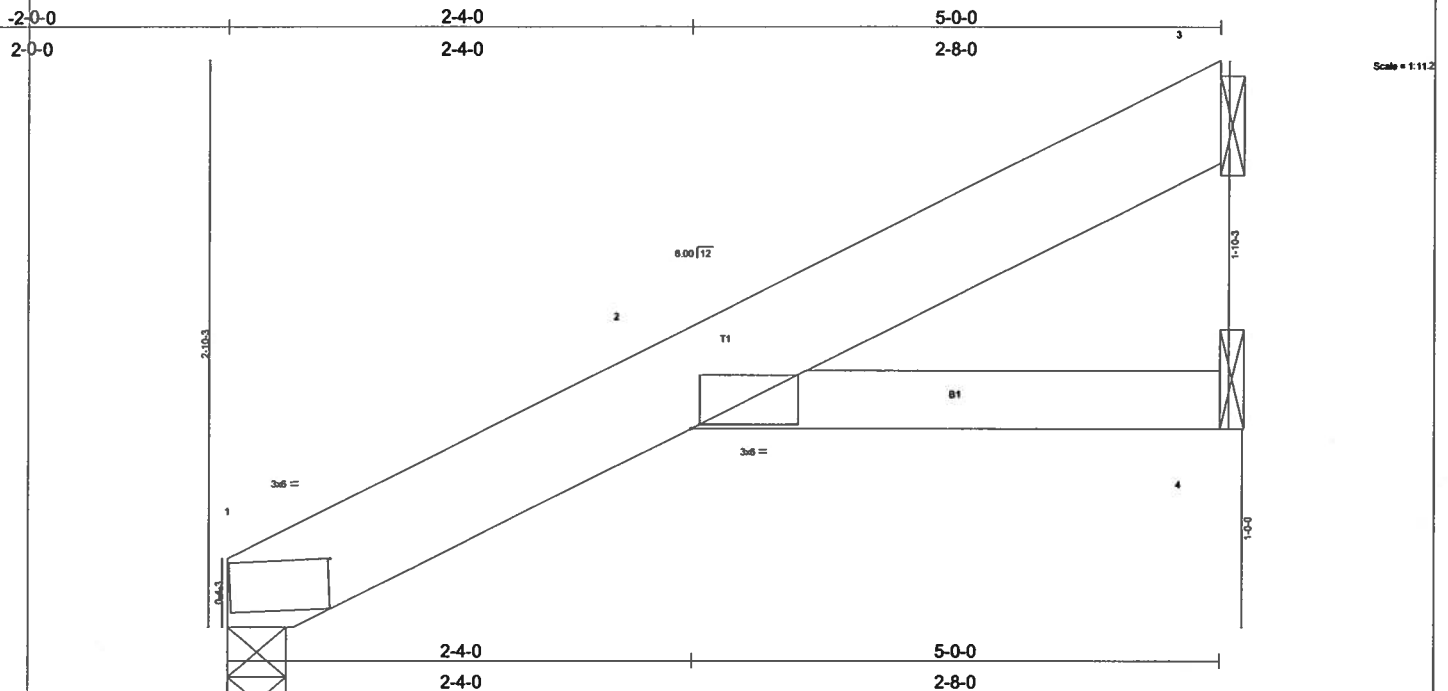


Plate Offsets (X,Y): [2:0-0-3,Edge], [2:1-10-2,0-6-14]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.14	Vert(LL)	0.03	2	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.05	Vert(TL)	-0.03	2	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.01	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
								Weight: 17 lb	

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

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

REACTIONS (lb/size) 1=169/0-3-8, 3=153/Mechanical, 4=39/Mechanical
Max Horz 1=110(load case 5)
Max Uplift 1=47(load case 5), 3=111(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-114/0, 2-3=-96/66
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Bearing at joint(s) 1 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 47 lb uplift at joint 1 and 111 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	EJ7	MONO TRUSS	10	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6,200 s Jul 13 2005 MiTek Industries, Inc. Mon Feb 06 11:52:41 2006 Page 1		

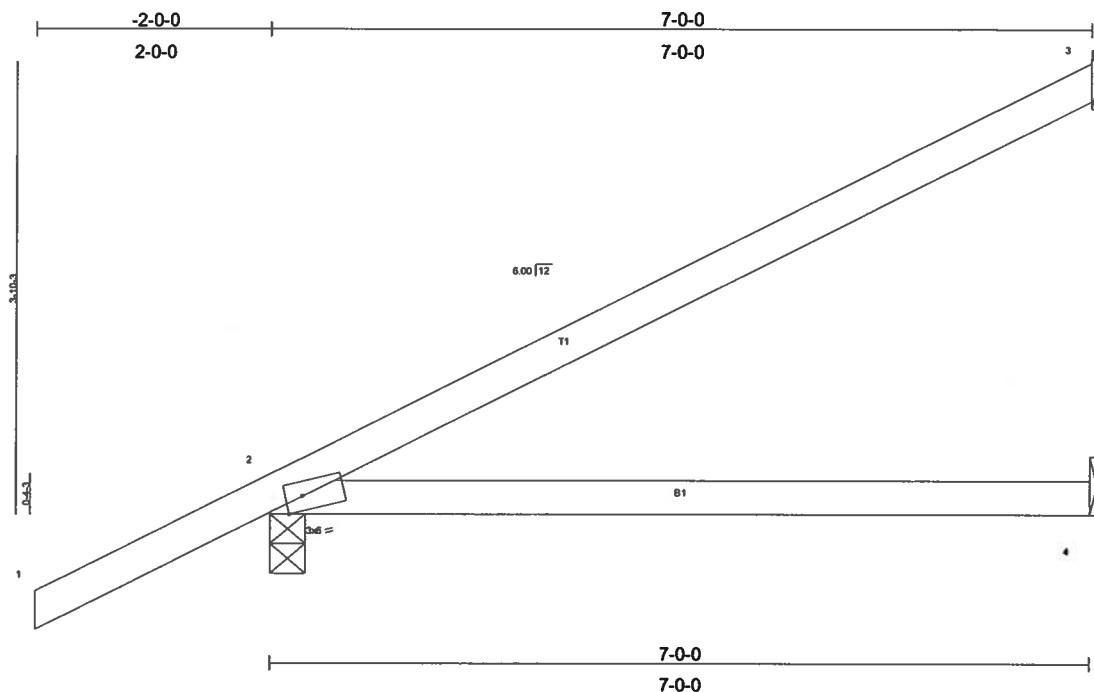


Plate Offsets (X,Y): [2:0-1-12,Edge]

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

LUMBER

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

BRACING

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

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

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=119/58
BOT CHORD 2-4=0/0

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 134 lb uplift at joint 3 and 210 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	EJ7A	SPECIAL	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Feb 06 11:58:46 2006 Page 1		

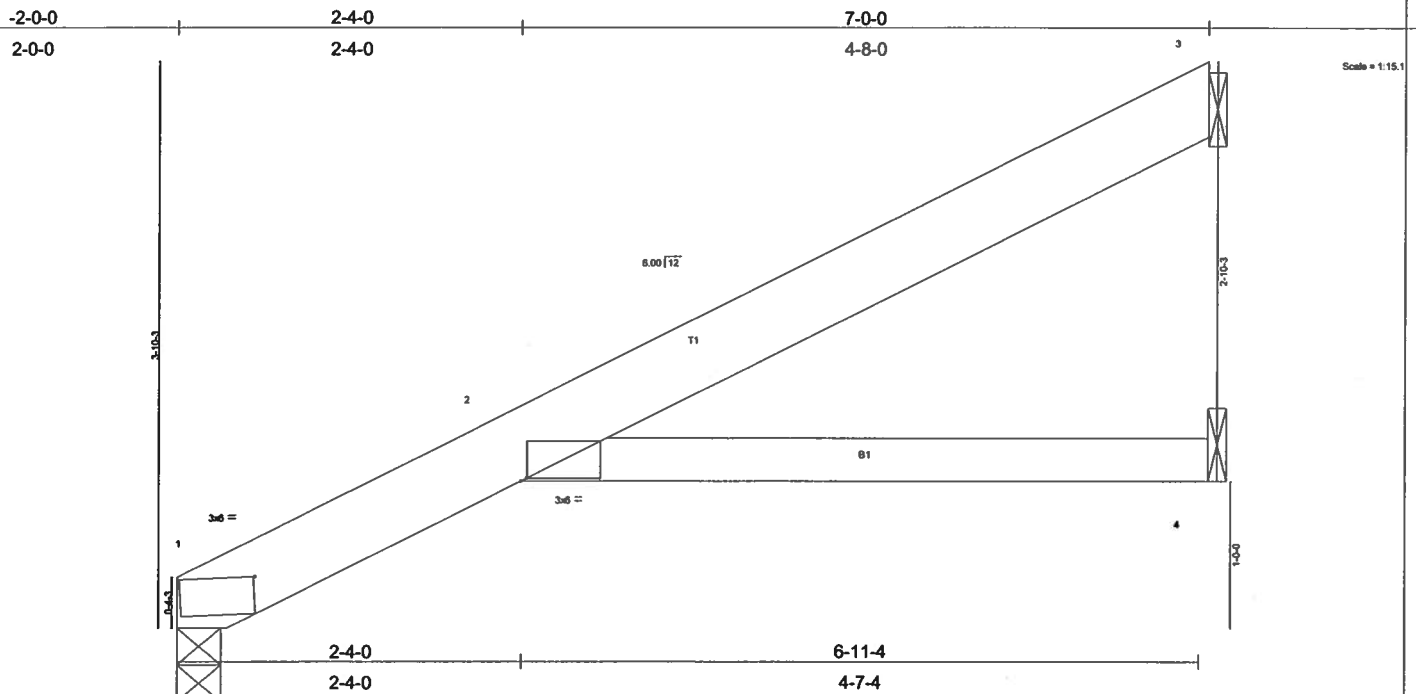


Plate Offsets (X,Y): [2:0-0-8,Edge], [2:1-10-1,0-6-14]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	0.10	2	>791	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.17	Vert(TL)	-0.10	2-4	>777	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Horz(TL)	-0.05	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								Weight: 26 lb	

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

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

REACTIONS (lb/size) 1=250/0-3-8, 3=209/Mechanical, 4=69/Mechanical
Max Horz 1=157(load case 5)
Max Uplift 1=67(load case 5), 3=160(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-162/0, 2-3=-136/86
BOT CHORD 2-4=0/0

NOTES

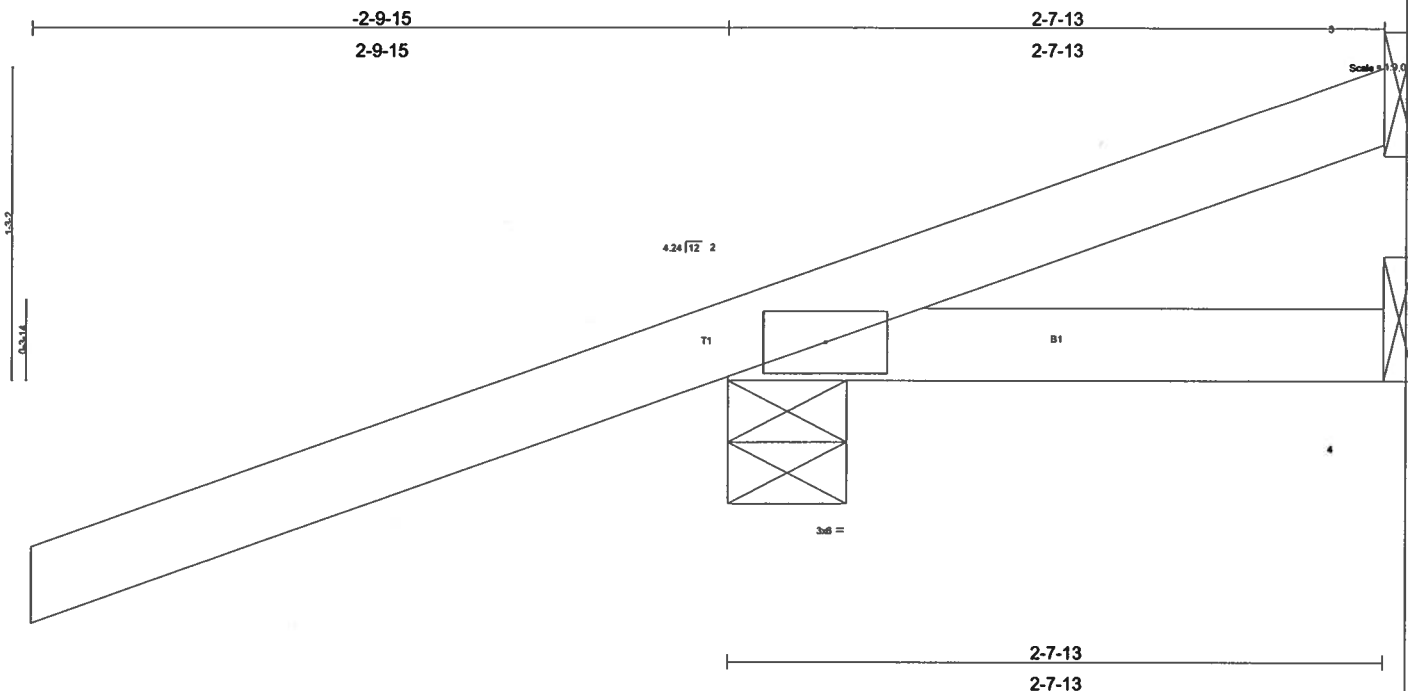
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Bearing at joint(s) 1 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 67 lb uplift at joint 1 and 160 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	HJ2	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.47	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.04	Vert(TL)	-0.00	2-4	>999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 13 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=-44/Mechanical, 2=372/0-5-11, 4=35/Mechanical
Max Horz 2=106(load case 2)
Max Uplift 3=-44(load case 1), 2=-326(load case 2)
Max Grav 3=72(load case 2), 2=372(load case 1), 4=35(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-64/26
BOT CHORD 2-4=0/0

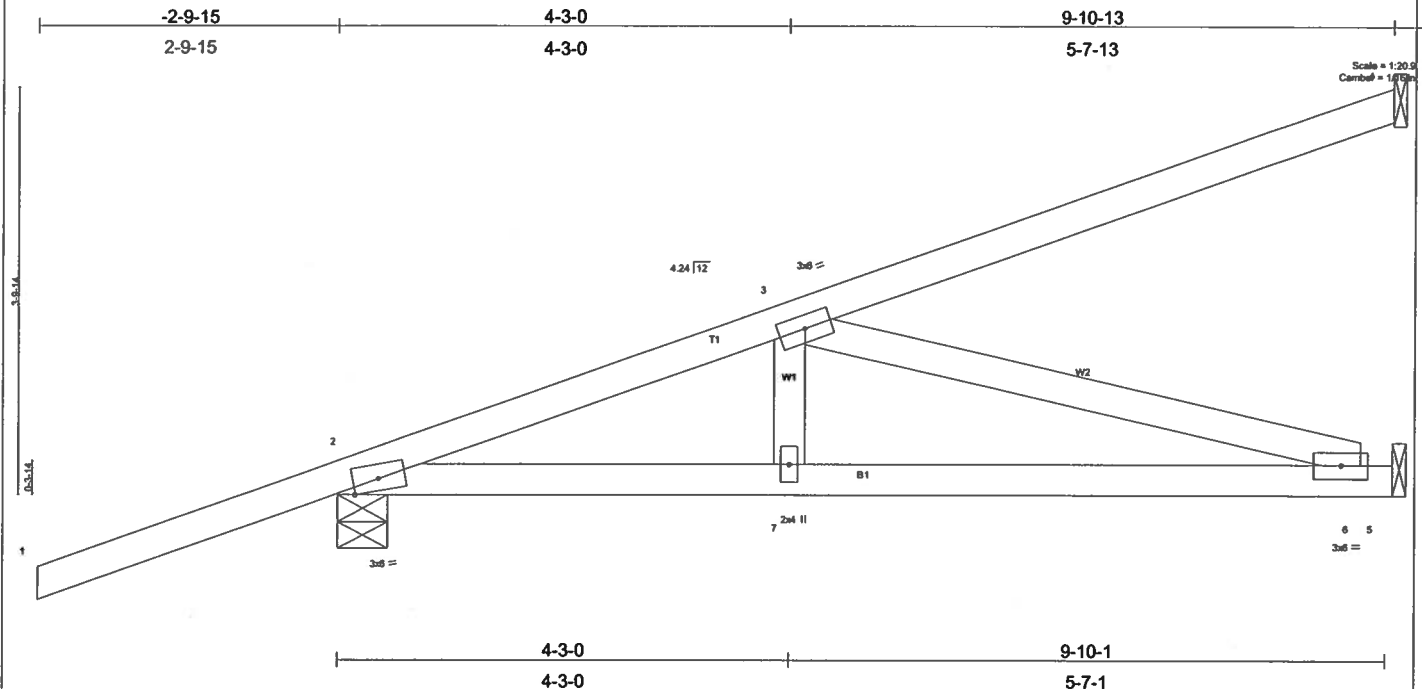
NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3 and 326 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	HJ9	MONO TRUSS	3	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.57	Vert(LL) -0.10 6-7 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.46	Vert(TL) -0.17 6-7 >686 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01 5 n/a n/a		
	Code FBC2004/TPI2002			Weight: 45 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.

REACTIONS (lb/size) 4=269/Mechanical, 2=535/0-5-11, 5=375/Mechanical
Max Horz 2=269(load case 2)
Max Uplift 4=233(load case 2), 2=-401(load case 2), 5=-181(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-881/360, 3-4=-105/66
BOT CHORD 2-7=-532/815, 6-7=-532/815, 5-6=0/0
WEBS 3-7=-89/178, 3-6=-848/554

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch 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 233 lb uplift at joint 4, 401 lb uplift at joint 2 and 181 lb uplift at joint 5.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	HJ9A	SPECIAL	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 Mitek Industries, Inc. Tue Feb 07 08:56:22 2006 Page 1		

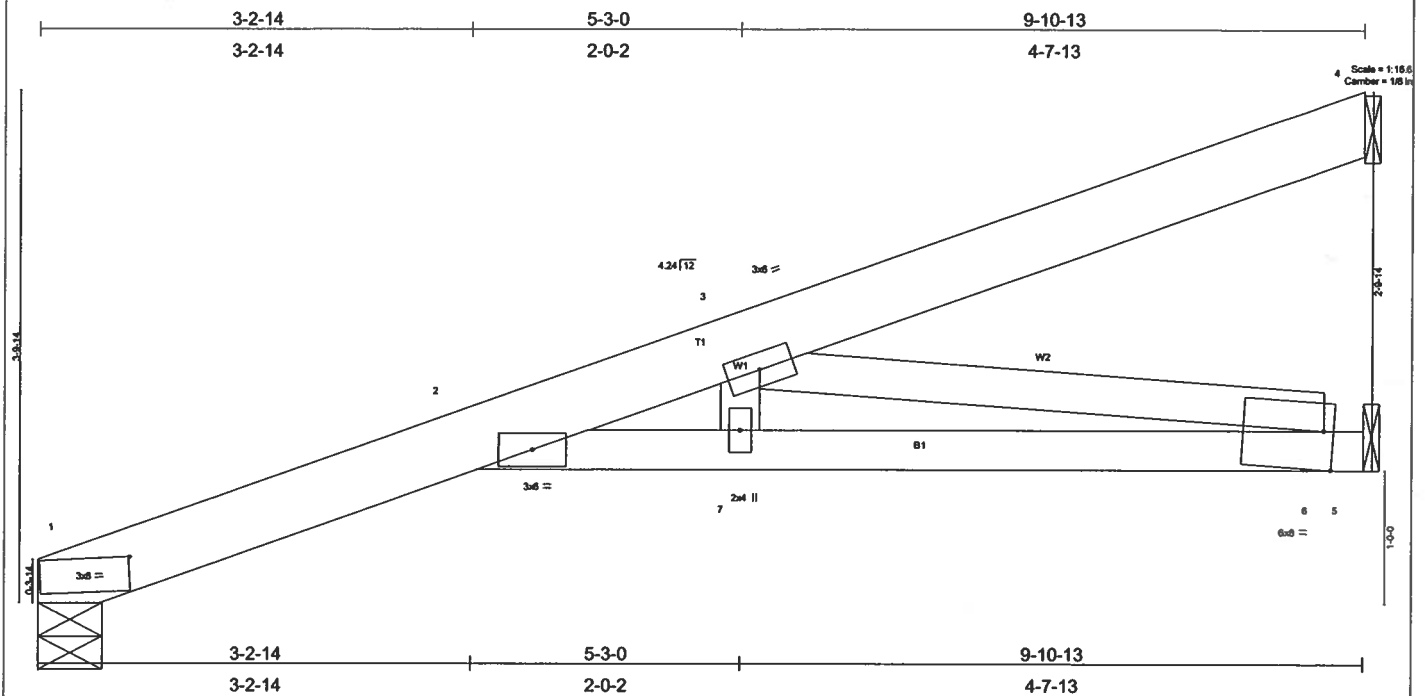


Plate Offsets (X,Y): [6:Edge,0-3-7], [6:8-11-8,0-6-12]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.72	Vert(LL) -0.15 2 >780 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.59	Vert(TL) -0.25 2 >466 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.10 5 n/a n/a		
	Code FBC2004/TPI2002			Weight: 42 lb	

LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1D	TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 1=331/0-5-11, 4=264/Mechanical, 5=399/Mechanical
Max Horz 1=202(load case 2)
Max Uplift 1=124(load case 4), 4=-208(load case 2), 5=-107(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-172/0, 2-3=-1508/517, 3-4=-94/68
BOT CHORD 2-7=-726/1534, 6-7=-726/1534, 5-6=0/0
WEBS 3-7=0/193, 3-6=-1559/738

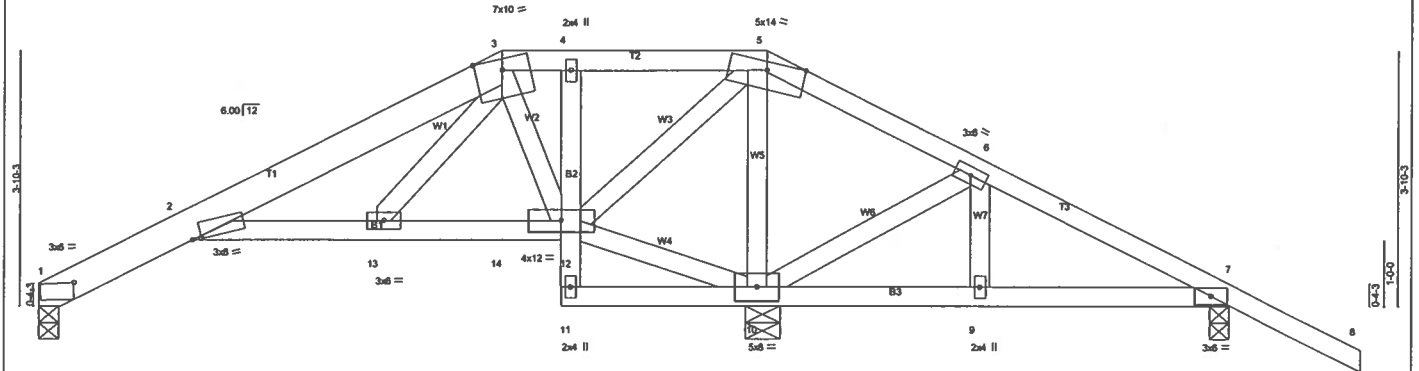
- NOTES**
- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Bearing at joint(s) 1 considers parallel to grain value using 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 124 lb uplift at joint 1, 208 lb uplift at joint 4 and 107 lb uplift at joint 5.
 - 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
Trapezoidal Loads (plf)
Vert: 1=-11(F=27, B=27)-to-2=-53(F=6, B=6), 2=-42(F=6, B=6)-to-4=-134(F=-40, B=-40), 2=-24(F=3, B=3)-to-5=-74(F=-22, B=-22)

Job L149328	Truss T01	Truss Type SPECIAL	Qty 1	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.200 s Jul 13 2005 MITek Industries, Inc. Tue Feb 07 07:42:28 2006 Page 1		

1-0-0	2-4-0	7-0-0	7-10-14	11-0-0	14-2-12	18-0-0	20-0-0
-0-0	2-4-0	4-8-0	0-10-14	3-1-2	3-2-12	3-9-4	2-0-0

Scale = 1:33.5



2-4-0	5-1-7	7-0-0	7-10-14	11-0-0	14-2-12	18-0-0
2-4-0	2-9-7	1-10-9	0-10-14	3-1-2	3-2-12	3-9-4

Plate Offsets (X,Y): [2:0-1-9,0-0-2], [2:1-9-15,0-6-12]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.41	Vert(LL) -0.07	2-13	>999	240		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.57	Vert(TL) -0.11	2-13	>999	180			
BCLL 10.0	Rep Stress Incr NO	WB 0.44	Horz(TL) 0.06	10	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 97 lb

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
T1 2 X 6 SYP No.1D	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
BOT CHORD 2 X 4 SYP No.2 *Except*	10-0-0 oc bracing: 11-12.
B2 2 X 4 SYP No.3	JOINTS 1 Brace at Jt(s): 13
WEBS 2 X 4 SYP No.3	

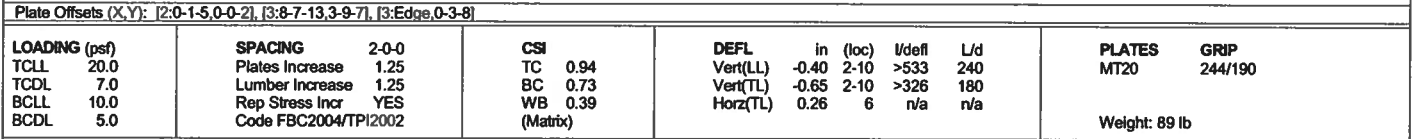
REACTIONS (lb/size) 1=268/0-3-8, 7=195/0-3-8, 10=2958/0-6-7
Max Horz 1=109(load case 5)
Max Uplift 1=120(load case 5), 7=424(load case 8), 10=1347(load case 4)
Max Grav 1=274(load case 8), 7=76(load case 4), 10=2958(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-107/162, 2-3=-386/230, 3-4=-57/225, 4-5=-64/258, 5-6=-533/1338, 6-7=-407/1134, 7-8=0/47
BOT CHORD 2-13=-106/350, 13-14=-31/97, 12-14=-31/97, 11-12=0/60, 4-12=-228/209, 10-11=-172/109, 9-10=-989/408, 7-9=-989/408
WEBS 3-13=-154/466, 3-12=-588/307, 10-12=-1121/535, 5-12=-547/1296, 5-10=-1699/757, 6-10=-307/215, 6-9=-74/99

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
 - Provide adequate drainage to prevent water ponding.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 1, 424 lb uplift at joint 7 and 1347 lb uplift at joint 10.
 - Girder carries hip end with 7-0-0 end setback.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 11-0-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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=-65, 2-3=-54, 3-5=-118(F=-64), 5-8=-54, 2-14=-30, 12-14=-65(F=-35), 10-11=-65(F=-35), 7-10=-30
Concentrated Loads (lb)
Vert: 10=539(F) 14=539(F)

Scale = 1:33.2
 Bar Size = 1/4 in



REACTIONS (lb/size) 1=698/0-3-8, 6=864/0-3-8
Max Horz 1=126(load case 6)
Max Uplift 1=238(load case 5), 6=371(load case 6)

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=20ft$; $TCDL=4.2psf$; $BGCLD=3.0psf$; 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 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 238 lb uplift at joint 1 and 371 lb uplift at joint 6.

LOAD CASE(S) Standard

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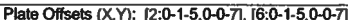
LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1D	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3	JOINTS 1 Brace at Jt(s): 6

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-282/161, 2-3=-1365/655, 3-4=-1365/655, 4-5=-282/161
BOT CHORD 2-6=483/1260, 4-6=483/1260
WEBS 3-6=-38/350

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=20ft$; TCDFL=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 241 lb uplift at joint 1 and 241 lb uplift at joint 5.

LOAD CASE(S) Standard

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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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T05	HIP	1	1	Job Reference (optional)
Builders FirstSource, Lake City, Fl 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 07:58:53 2006 Page 1		

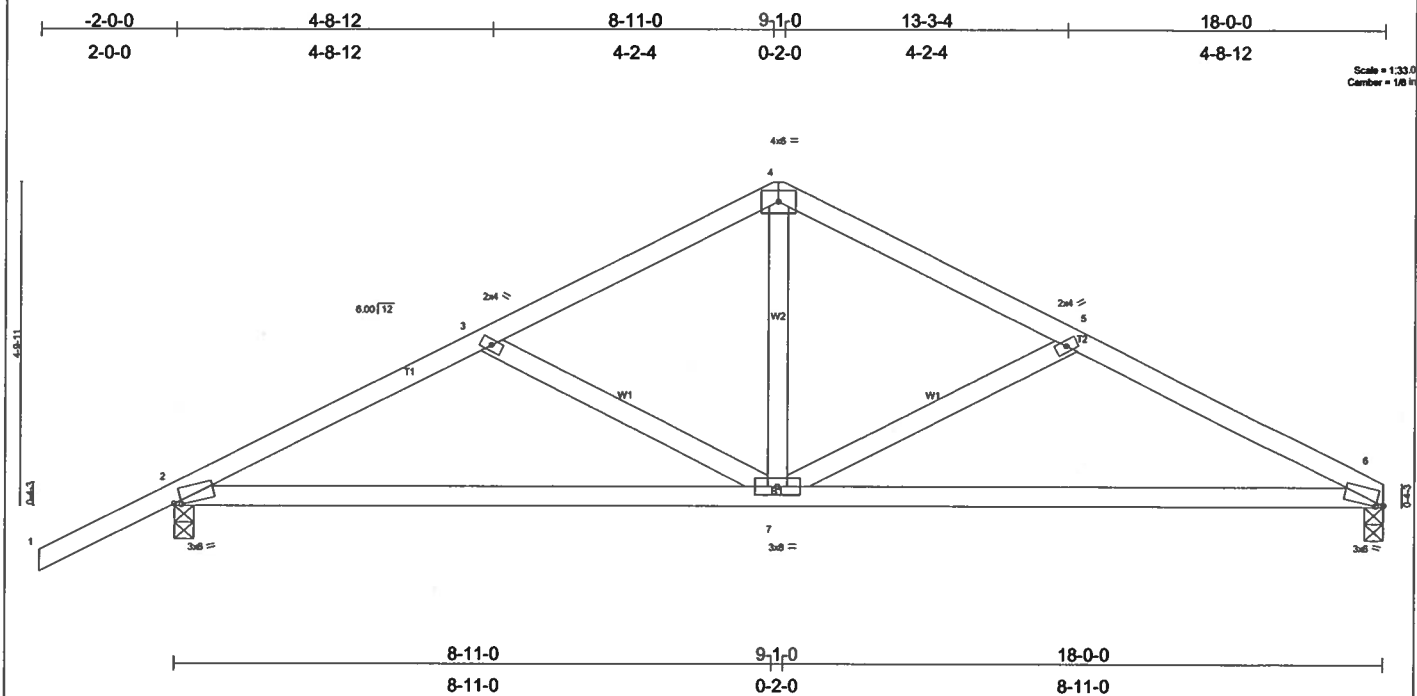


Plate Offsets (X,Y): [2:0-1-5,0-0-7], [6:0-1-5,0-0-7]											
LOADING (psf)		SPACING 2-0-0		CSI		DEFL			PLATES GRIP		
TCLL	20.0	Plates Increase	1.25	TC	0.29	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(LL)	-0.14	6-7	>999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.18	Vert(TL)	-0.24	6-7	>899		
BCDL	5.0	Code FBC2004/TP12002		(Matrix)		Horz(TL)	0.03	6	n/a		
										Weight: 81 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 5-3-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-7-6 oc bracing.

REACTIONS (lb/size) 6=737/0-3-8, 2=867/0-3-8
Max Horz 2=126(load case 5)
Max Uplift6=239(load case 6), 2=371(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1179/516, 3-4=-928/409, 4-5=-930/412, 5-6=-1198/548
BOT CHORD 2-7=377/1013, 6-7=-421/1040
WEBS 3-7=-283/214, 5-7=-313/264, 4-7=-162/553

NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDF=3.0psf; Category II; Ex 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.

LOAD CASE(S) Standard

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

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-8-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 85 lb

REACTIONS (lb/size) 6=737/0-3-8, 2=867/0-3-8
Max Horz 2=119(load case 5)
Max Uplift6=-233(load case 6), 2=-379(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1239/467, 3-4=-1176/502, 4-5=-1333/577, 5-6=-1200/467
BOT CHORD 2-9=333/1045, 8-9=-331/1051, 7-8=-292/853, 6-7=-303/988
WEBS 3-9=0/111, 3-8=73/210, 4-8=-566/212, 5-8=-186/665, 5-7=-22/275

NOTES

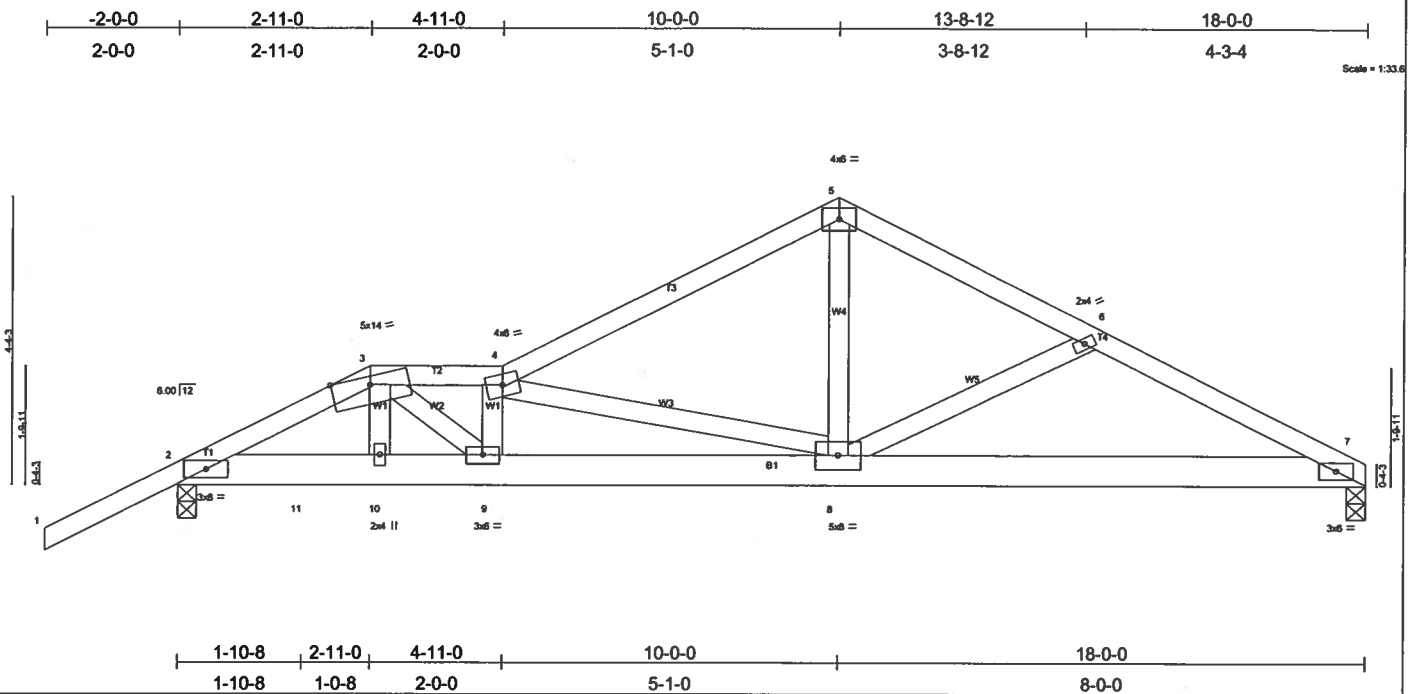
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=20ft$; $TCDL=4.2psf$; $BCDL=3.0psf$; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber $DOL=1.60$ plate grip $DOL=1.60$. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 6 and 379 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T08	SPECIAL	1	1	Job Reference (optional)

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.35	Vert(LL) -0.08 8-9 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.60	Vert(TL) -0.12 8-9 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.03 7 n/a n/a		
	Code FBC2004/TPI2002				
				Weight: 100 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-3 oc bracing.

REACTIONS (lb/size) 7=785/0-3-8, 2=1312/0-3-8
Max Horz 2=123(load case 5)
Max Uplift 7=251(load case 6), 2=548(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-3=1905/694, 3-4=2077/866, 4-5=1150/491, 5-6=1135/502, 6-7=1357/612
BOT CHORD 2-11=569/1664, 10-11=569/1664, 9-10=580/1712, 8-9=819/2115, 7-8=486/1170
WEBS 3-10=142/480, 3-9=270/460, 4-9=373/250, 4-8=1179/542, 5-8=226/705, 6-8=245/212

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 7 and 548 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 493 lb down and 214 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

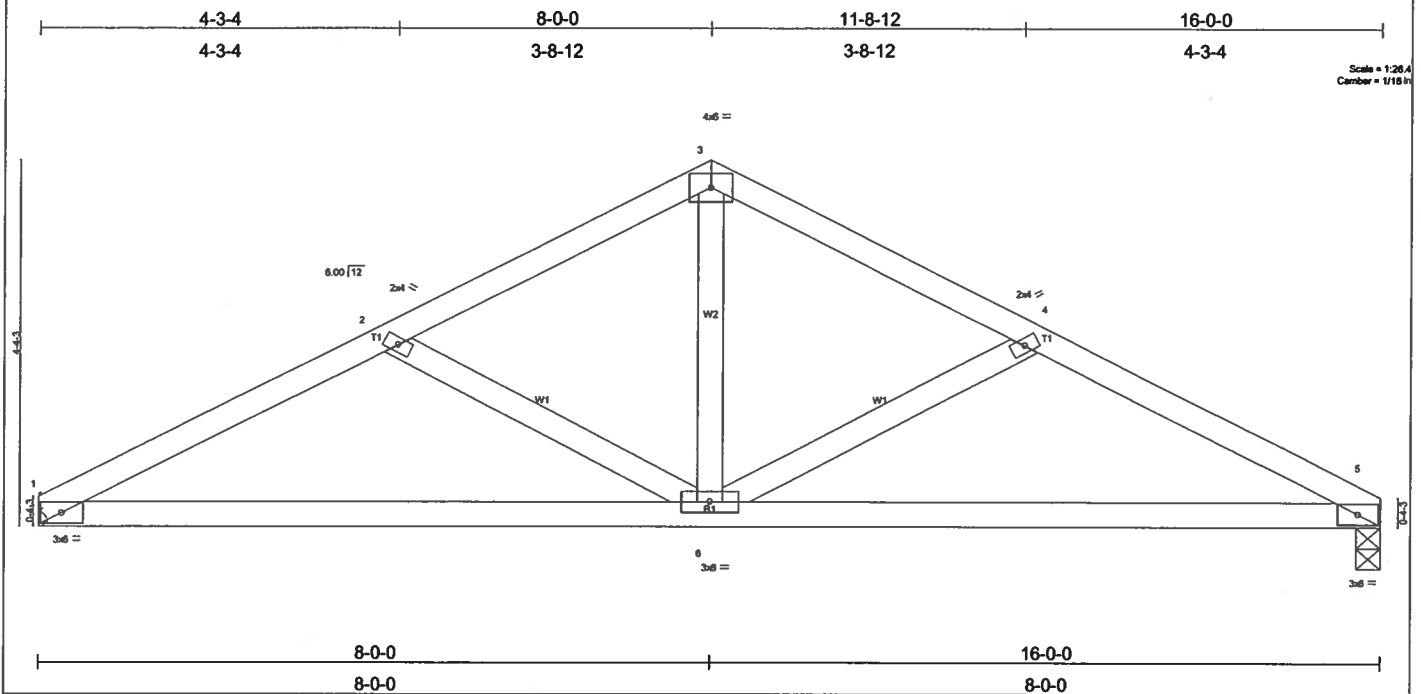
LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-5=-54, 5-7=-54, 2-7=-30
Concentrated Loads (lb)
Vert: 11=493(F)

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T09	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.21	Vert(LL)	-0.09	1-6	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.42	Vert(TL)	-0.16	1-6	>999	180		
BCCL 10.0	Rep Stress Incr	YES	WB 0.17	Horz(TL)	0.02	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)							
									Weight: 69 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 5-8-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-8-11 oc bracing.

REACTIONS (lb/size) 1=663/Mechanical, 5=663/0-3-8
 Max Horz 1=-59(load case 3)
 Max Uplift 1=-216(load case 5), 5=-215(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-1087/532, 2-3=-845/407, 3-4=-845/407, 4-5=-1077/527
 BOT CHORD 1-6=-413/945, 5-6=-406/932
 WEBS 2-6=-282/244, 3-6=-187/516, 4-6=-270/237

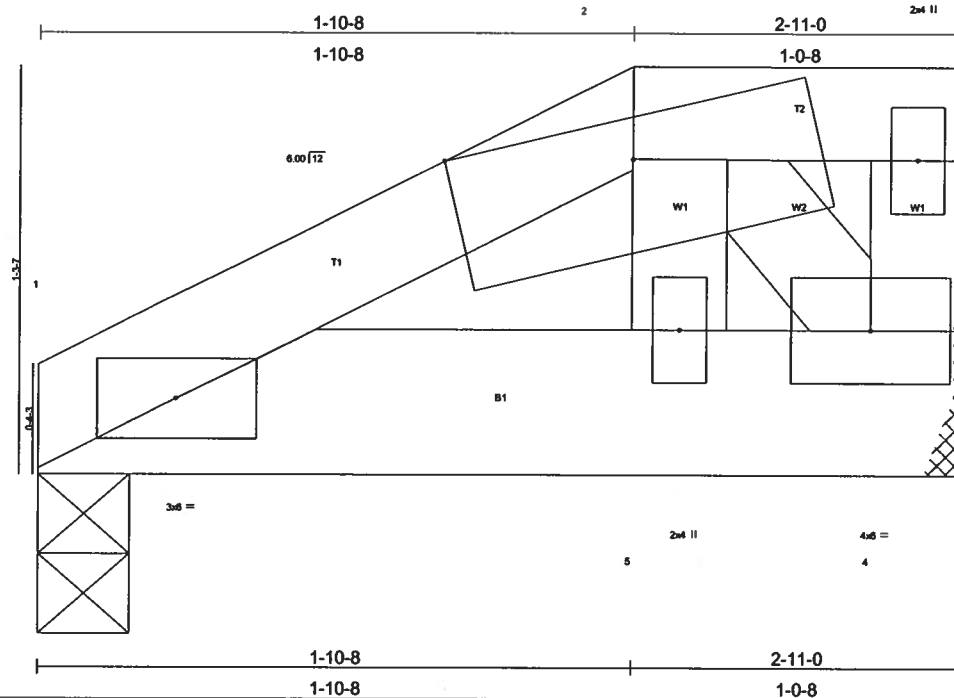
NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 3) Refer to girder(s) for truss to truss connections.
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 1 and 215 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T09A	MONO HIP	1	5/4 = 1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.13	Vert(LL) -0.00 5 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.13	Vert(TL) -0.00 1-5 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.00 4 n/a n/a		
	Code FBC2004/TPI2002			Weight: 14 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=493/0-3-8, 4=493/Mechanical
Max Horz 1=42(load case 4)
Max Uplift 1=177(load case 4), 4=183(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-321/88, 2-3=-0/0, 3-4=-24/17
BOT CHORD 1-5=-105/269, 4-5=-125/335
WEBS 2-5=-135/411, 2-4=-475/178

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 177 lb uplift at joint 1 and 183 lb uplift at joint 4.
- 5) Girder carries tie-in span(s): 16-0-0 from 0-0-0 to 2-11-0
- 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=-54, 2-3=-54, 1-4=-321(F=-291)

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T10G	COMMON	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 08:05:05 2006 Page 1		

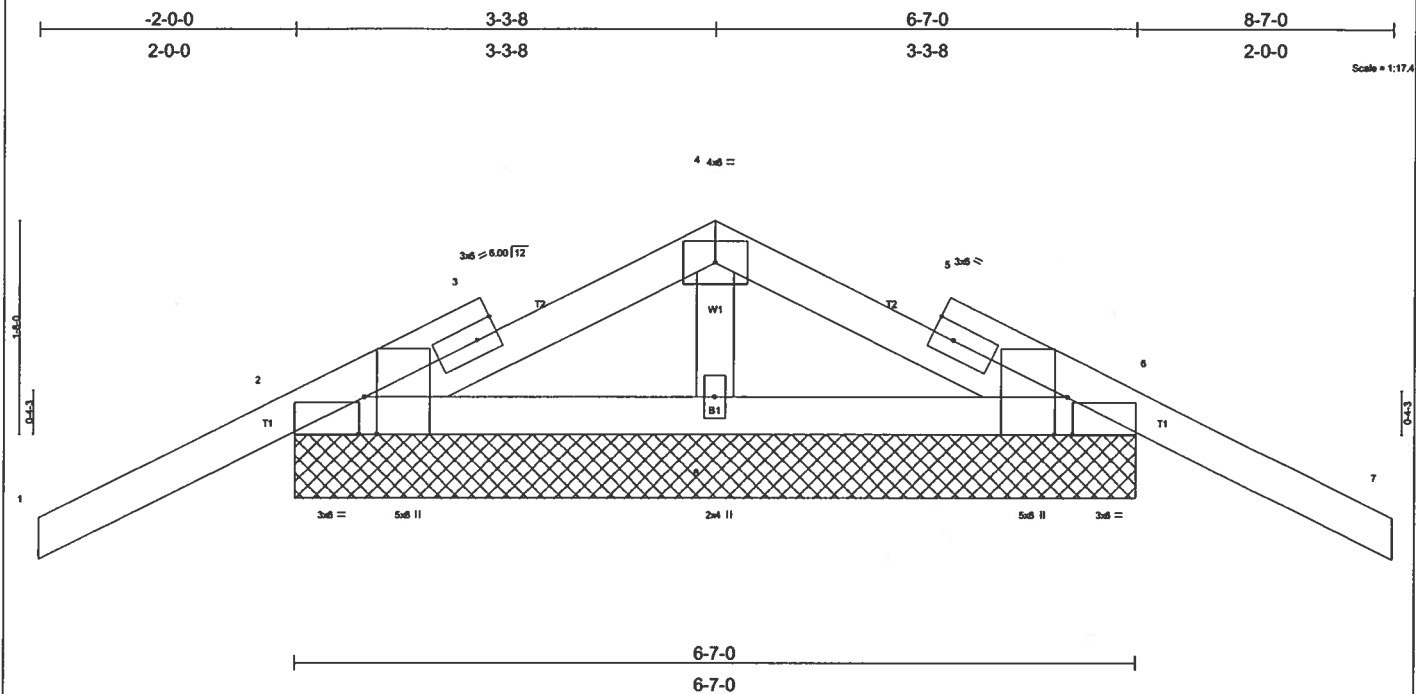


Plate Offsets (X,Y): [2-0-3-8,Edge], [2-0-0-8,Edge], [6-0-3-8,Edge], [6-0-0-8,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	U/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.49	Vert(LL) -0.04	7	n/r	120		MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.08	Vert(TL) -0.06	7	n/r	90			
BCLL 10.0	Rep Stress Incr NO	WB 0.05	Horz(TL) 0.00	6	n/a	n/a			
BCDL 5.0	Code FBC2004/TP12002	(Matrix)							
								Weight: 32 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 6-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=487/6-7-0, 6=487/6-7-0, 8=430/6-7-0
Max Horz 2=-57(load case 6)
Max Uplift 2=298(load case 5), 6=307(load case 6), 8=79(load case 5)
Max Grav 2=493(load case 9), 6=493(load case 10), 8=430(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-25/99, 2-3=-5/32, 3-4=-11/128, 4-5=-12/128, 5-6=-4/32, 6-7=-25/99
BOT CHORD 2-8=-85/124, 6-8=-85/124
WEBS 4-8=-307/158

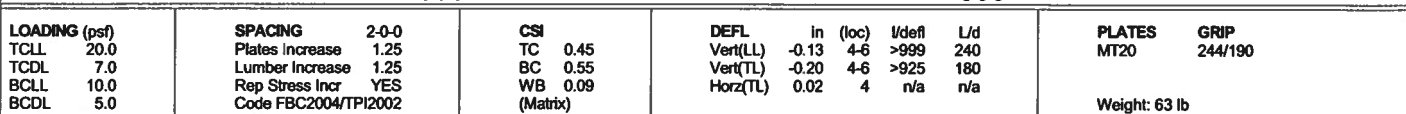
NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- 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"
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2, 307 lb uplift at joint 6 and 79 lb uplift at joint 8.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-114(F=-60), 4-7=-114(F=-60), 2-6=-30

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NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCFL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 342 lb uplift at joint 2 and 342 lb uplift at joint 4.

LOAD CASE(S) Standard

Job L149328	Truss T11G	Truss Type COMMON	Qty 1	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, Fl 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 08:18:31 2006 Page 1		

Scale = 1:32

LOADING (psf)		SPACING		CSI		DEFL		PLATES		GRIP	
TCLL	20.0	Plates Increase	1.25	TC	0.49	in (loc)	l/defl	L/d	MT20	244/190	
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(LL)	-0.03	11	n/r	120	
BCLL	10.0	Rep Stress Incr	NO	WB	0.10	Vert(TL)	-0.05	11	n/r	90	
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Horz(TL)	0.00	10	n/a	n/a	
Weight: 77 lb											

LUMBER		BRACING	
TOP CHORD	2 X 4 SYP No.2	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	2 X 4 SYP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2 X 4 SYP No.3		

REACTIONS (lb/size) 2=516/16-0-0, 10=516/16-0-0, 14=424/16-0-0, 15=277/16-0-0, 16=464/16-0-0, 13=277/16-0-0, 12=464/16-0-0
Max Horz 2=-90(load case 6)
Max Uplift 2=-284(load case 5), 10=-297(load case 6), 14=-61(load case 5), 15=-144(load case 5), 16=-161(load case 5), 13=-141(load case 6), 12=-166(load case 6)
Max Grav 2=520(load case 9), 10=520(load case 10), 14=424(load case 1), 15=281(load case 9), 16=464(load case 9), 13=281(load case 10), 12=464(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-16/99, 2-3=-45/35, 3-4=-56/149, 4-17=-17/102, 5-17=0/109, 5-6=-9/155, 6-7=-9/155, 7-18=0/109, 8-18=-17/102, 8-9=-21/149, 9-10=-28/22, 10-11=-16/99
BOT CHORD 2-16=-55/118, 15-16=-55/118, 14-15=-55/118, 13-14=-55/118, 12-13=-55/118, 10-12=-55/118
WEBS 6-14=-352/75, 5-15=-245/171, 4-16=-353/220, 7-13=-245/171, 8-12=-353/220

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 2, 297 lb uplift at joint 10, 61 lb uplift at joint 14, 144 lb uplift at joint 15, 161 lb uplift at joint 16, 141 lb uplift at joint 13 and 166 lb uplift at joint 12.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-17=-114(F=-60), 6-17=-141(F=-87), 6-18=-141(F=-87), 11-18=-114(F=-60), 2-10=-30

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LUMBER		BRACING	
TOP CHORD	2 X 4 SYP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-10 oc purlins.
BOT CHORD	2 X 4 SYP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2 X 4 SYP No.3		

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-955/402, 3-4=-951/396
BOT CHORD 2-5=-242/775, 4-5=-242/775
WEBS 3-5=0/307

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=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 MT20 plates unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 4 and 345 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T13	COMMON	5	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MITek Industries, Inc. Tue Feb 07 08:19:31 2006 Page 1		

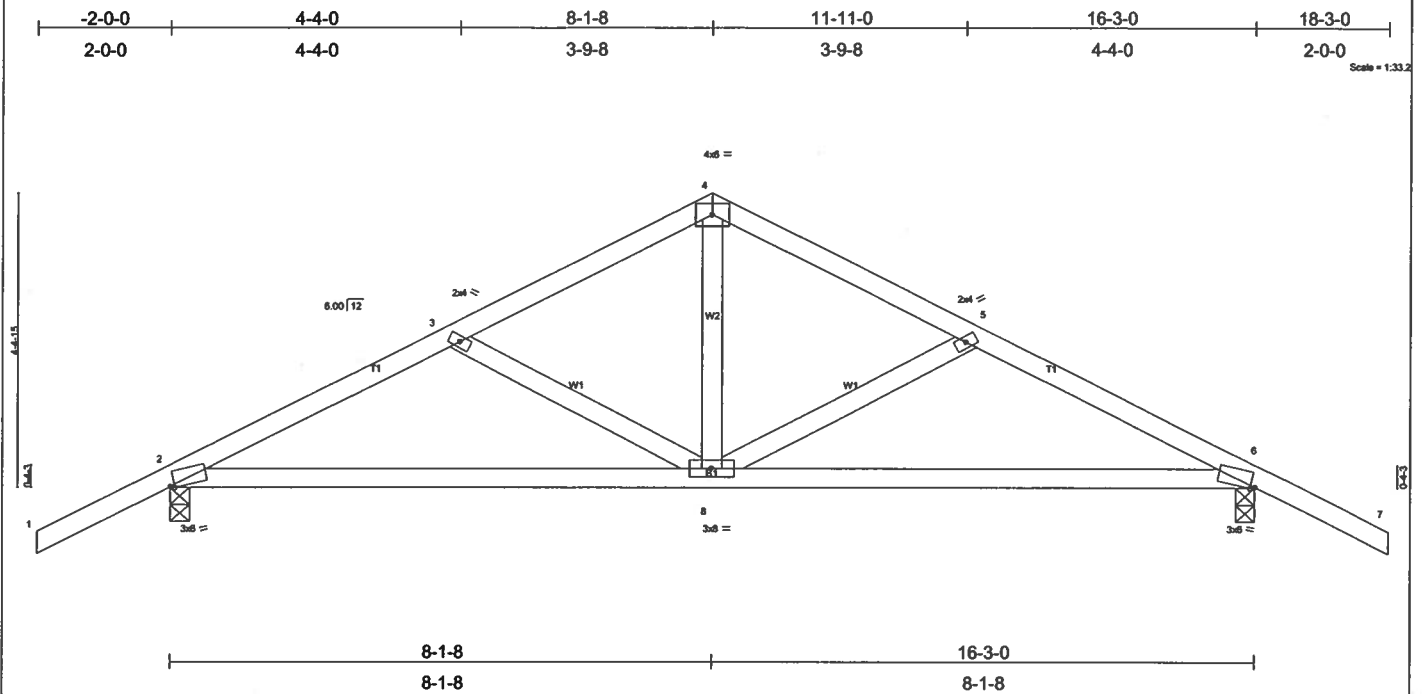


Plate Offsets (X,Y): [2-0-0-13,Edge], [6-0-0-13,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	-0.08	6-8	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.38	Vert(TL)	-0.13	6-8	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.15	Horz(TL)	0.02	6	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002								
								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

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.

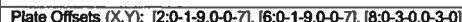
REACTIONS (lb/size) 2=786/0-3-8, 6=786/0-3-8
Max Horz 2=95(load case 5)
Max Uplift 2=345(load case 5), 6=345(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1028/431, 3-4=-809/340, 4-5=-809/340, 5-6=-1028/431, 6-7=0/47
BOT CHORD 2-8=-247/879, 6-8=-227/879
WEBS 3-8=-243/187, 4-8=-106/468, 5-8=-243/187

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 mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 2 and 345 lb uplift at joint 6.

LOAD CASE(S) Standard

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BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-5-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-1-12 oc bracing.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T14G	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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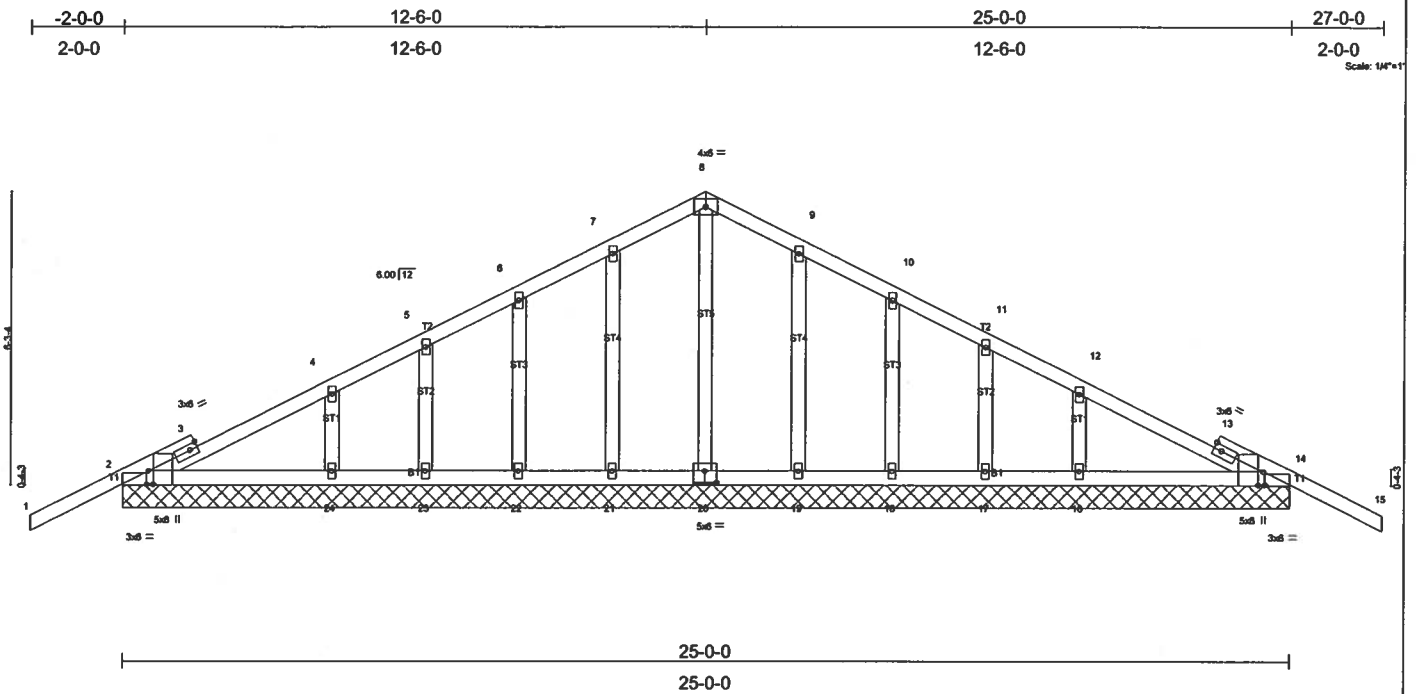


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [14:0-3-8,Edge], [14:0-0-8,Edge], [20:0-3-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.12	Vert(LL) -0.02 15 n/r 120		
BCLL 10.0	Lumber Increase 1.25	WB 0.19	Vert(TL) -0.03 15 n/r 90		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.01 14 n/a n/a		
	Code FBC2004/TPI2002			Weight: 136 lb	

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

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

REACTIONS (lb/size) 2=528/25-0-0, 14=528/25-0-0, 20=361/25-0-0, 21=287/25-0-0, 22=312/25-0-0, 23=181/25-0-0, 24=540/25-0-0, 19=287/25-0-0, 18=312/25-0-0, 17=181/25-0-0, 16=540/25-0-0
Max Horz 2=-121(load case 6)
Max Uplift 2=-264(load case 5), 14=-282(load case 6), 21=-127(load case 5), 22=-139(load case 5), 23=-110(load case 5), 24=-191(load case 5), 19=-124(load case 6), 18=-140(load case 6), 17=-107(load case 6), 16=-197(load case 6)
Max Grav 2=532(load case 9), 14=532(load case 10), 20=361(load case 1), 21=290(load case 9), 22=312(load case 1), 23=181(load case 1), 24=541(load case 9), 19=290(load case 10), 18=312(load case 1), 17=181(load case 1), 16=541(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-15/99, 2-3=-109/37, 3-4=-122/190, 4-5=-39/112, 5-6=-1/143, 6-7=0/162, 7-8=0/214, 8-9=0/214, 9-10=0/162, 10-11=0/143, 11-12=-2/112, 12-13=-74/190, 13-14=-61/29, 14-15=-15/99
BOT CHORD 2-24=-77/170, 23-24=-77/170, 22-23=-77/170, 21-22=-77/170, 20-21=-77/170, 19-20=-77/170, 18-19=-77/170, 17-18=-77/170, 16-17=-77/170, 14-16=-77/170
WEBS 8-20=-299/12, 7-21=-233/151, 6-22=-243/174, 5-23=-157/132, 4-24=-404/243, 9-19=-233/151, 10-18=-243/174, 11-17=-157/132, 12-16=-404/243

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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.
- 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"
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2, 282 lb uplift at joint 14, 127 lb uplift at joint 21, 139 lb uplift at joint 22, 110 lb uplift at joint 23, 191 lb uplift at joint 24, 124 lb uplift at joint 19, 140 lb uplift at joint 18, 107 lb uplift at joint 17 and 197 lb uplift at joint 16.
- 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-8=-114(F=-60), 8-15=-114(F=-60), 2-14=-30

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PLATES **GRIP**
MT20 **244/190**

Weight: 21 lb

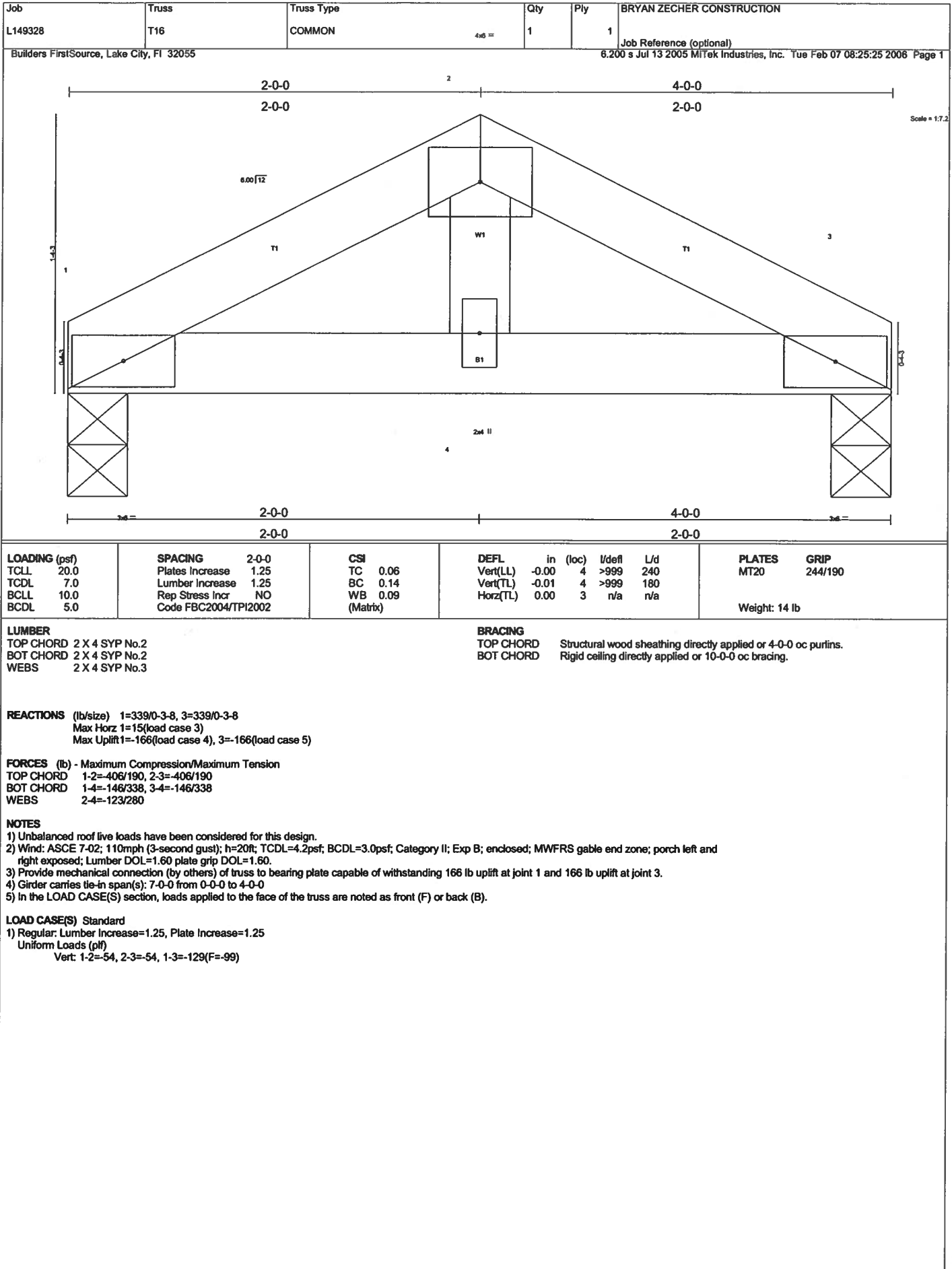
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

Max Horz 2=52(load case 5)
Max Uplift2=-246(load case 5), 4=-246(load case 6)
Max Grav 2=278(load case 9), 4=278(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-103/80, 3-4=-103/80, 4-5=0/47
BOT CHORD 2-6=0/99, 4-6=0/99
WEBS 3-6=-130/66

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=20ft$; $TCDL=4.2psf$; $BCDL=3.0psf$; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch 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 246 lb uplift at joint 2 and 246 lb uplift at joint 4.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T17	HIP	1	1	Job Reference (optional)

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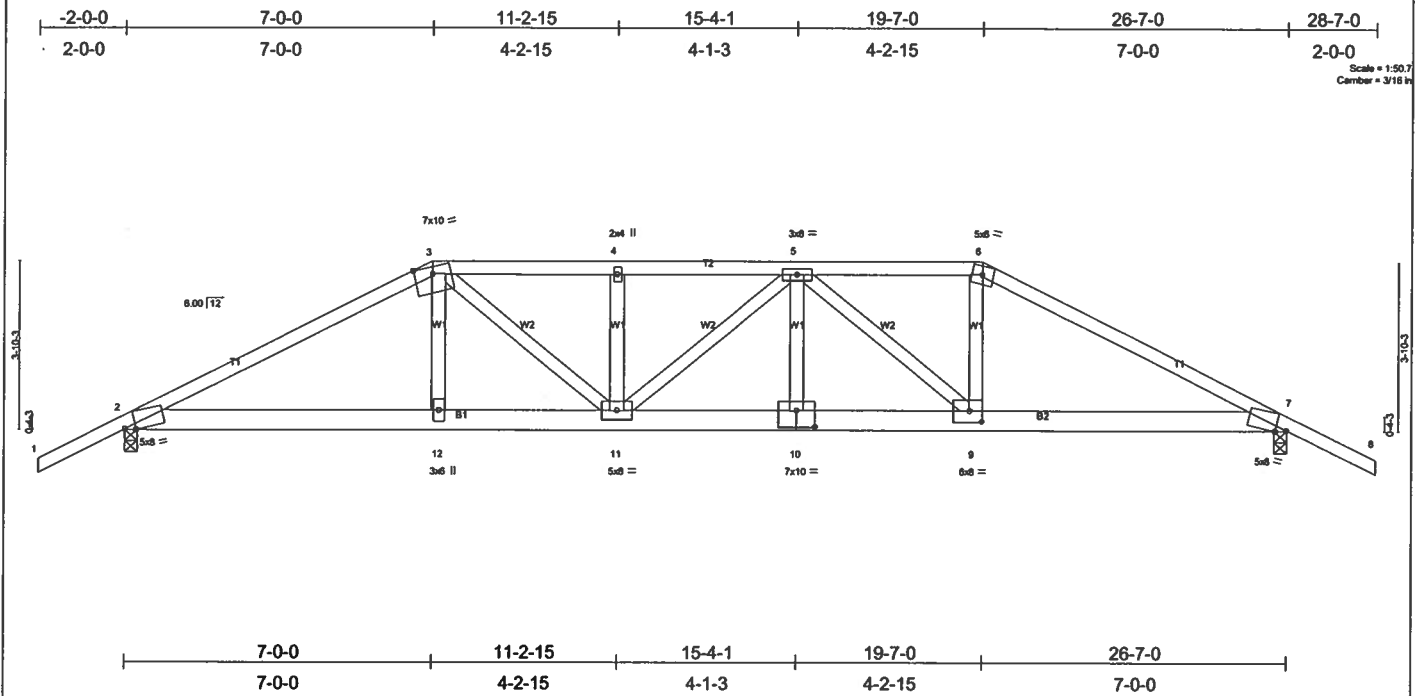


Plate Offsets (X,Y): [2:0-2-15,0-0-14], [7:0-2-15,0-0-14], [9:0-3-8,0-3-0], [10:0-5-0,0-4-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/def l/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.60	Vert(LL) 0.26 10-11 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.61	Vert(TL) -0.42 10-11 >757 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.10 7 n/a n/a		
	Code FBC2004/TP12002			Weight: 151 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-2-4 oc bracing.

REACTIONS (lb/size) 2=2376/0-3-8, 7=2376/0-3-8
Max Horz 2=89(load case 4)
Max Uplift 2=1366(load case 4), 7=1366(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/51, 2-3=4489/2419, 3-4=4842/2709, 4-5=4841/2709, 5-6=3991/2228, 6-7=4480/2413, 7-8=0/51
BOT CHORD 2-12=2119/3934, 11-12=2135/3968, 10-11=2628/4863, 9-10=2628/4863, 7-9=2074/3926
WEBS 3-12=404/811, 3-11=727/1233, 4-11=498/409, 5-11=64/39, 5-10=60/287, 5-9=1247/740, 6-9=837/1577

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1366 lb uplift at joint 2 and 1366 lb uplift at joint 7.
- Girder carries hip end with 7-0-0 end setback.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 19-7-0, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-118(F=-64), 6-8=-54, 2-12=-30, 9-12=-65(F=-35), 7-9=-30
Concentrated Loads (lb)
Vert: 12=-539(F) 9=-539(F)

Job

L149328

Truss

T18

Truss Type

HIP

Qty

1

Ply

1

BRYAN ZECHER CONSTRUCTION

Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055

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-2-0-0

4-9-4

9-0-0

13-3-8

17-7-0

21-9-12

26-7-0

28-7-0

2-0-0

4-9-4

4-2-12

4-3-8

4-3-8

4-2-12

4-9-4

2-0-0

Scale = 1/50.7

Camber = 1/8 in

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

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.39	Vert(LL)	0.35	2-11	>905	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.54	Vert(TL)	-0.29	2-11	>999	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.21	Horz(TL)	0.07	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 134 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins.

BOT CHORD Rigid ceiling directly applied or 4-9-12 oc bracing.

REACTIONS (lb/size)

2=1220/0-3-8, 8=1220/0-3-8

Max Horz 2=101(load case 5)

Max Uplift 2=785(load case 5), 8=785(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-1923/1835, 3-4=-1677/1696, 4-5=-1467/1581, 5-6=-1463/1576, 6-7=-1681/1700, 7-8=-1924/1836, 8-9=0/47

BOT CHORD 2-11=-1490/1672, 10-11=-1335/1565, 8-10=-1491/1673

WEBS 3-11=-254/268, 4-11=-575/489, 5-11=-237/154, 5-10=-242/157, 6-10=-576/490, 7-10=-252/266

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; 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 adequate drainage to prevent water ponding.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 785 lb uplift at joint 2 and 785 lb uplift at joint 8.

LOAD CASE(S) Standard

Job L149328	Truss T19	Truss Type HIP	Qty 1	Ply 1	BRYAN ZECHER CONSTRUCTION
Builders FirstSource, Lake City, FL 32055			6.200 s Jul 13 2005 MiTek Industries, Inc. Tue Feb 07 08:37:44 2006 Page 1		

Scale = 1/20
Camber = 1/16"

Plate Offsets (X,Y): [2-0-4-12,0-1-8], [7-0-4-12,0-1-8], [11-0-3-0,0-3-0]

LOADING (psf)	SPACING		CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25		TC 0.39	Vert(LL) 0.18	11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.38	Vert(TL) -0.17	11-12	>999	180		
BCLL 10.0	Rep Stress Incr YES		WB 0.32	Horz(TL) 0.07	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							

Weight: 141 lb

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 5-0-3 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 2=1220/0-3-8, 7=1220/0-3-8
Max Horz 2=-115(load case 6)
Max Uplift 2=800(load case 5), 7=800(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1978/1923, 3-4=-1482/1509, 4-5=-1277/1417, 5-6=-1483/1510, 6-7=-1977/1923, 7-8=0/47
BOT CHORD 2-12=-1545/1695, 11-12=-1545/1695, 10-11=-1056/1276, 9-10=-1545/1694, 7-9=-1545/1694
WEBS 3-12=-244/176, 3-11=-489/571, 4-11=-478/375, 4-10=-125/128, 5-10=-478/374, 6-10=-488/570, 6-9=-243/176

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 800 lb uplift at joint 2 and 800 lb uplift at joint 7.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T20	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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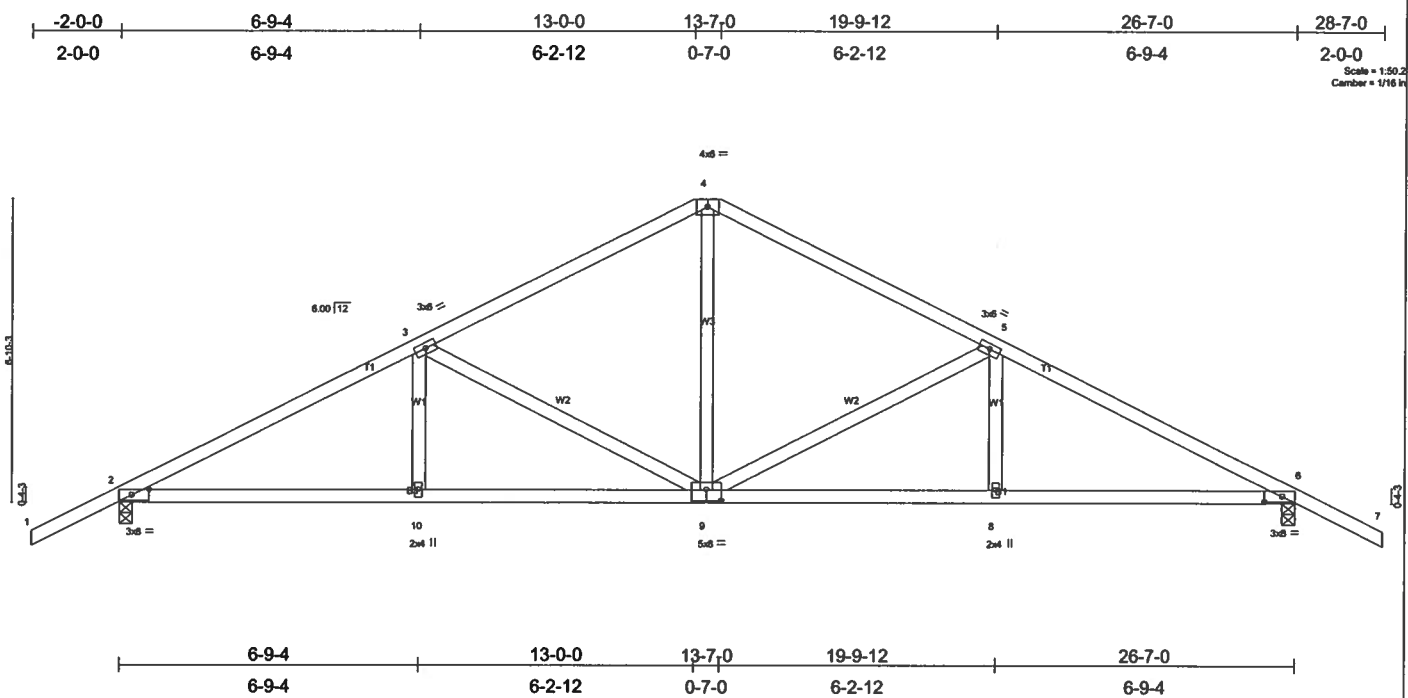


Plate Offsets (X,Y): [2-0-4-12,0-1-8], [6-0-4-12,0-1-8], [9-0-4-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	Vert(LL)	0.21	9-10	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.43	Vert(TL)	-0.19	9-10	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.74	Horz(TL)	0.07	6	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TPI2002								
								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 4-2-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 4-11-12 oc bracing.

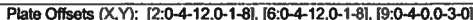
REACTIONS (lb/size) 2=1220/0-3-8, 6=1220/0-3-8
 Max Horz 2=-131(load case 6)
 Max Uplift 2=813(load case 5), 6=813(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-1937/1895, 3-4=-1321/1373, 4-5=-1321/1373, 5-6=-1937/1895, 6-7=0/47
 BOT CHORD 2-10=-1511/1653, 9-10=-1511/1653, 8-9=-1511/1653, 6-8=-1511/1653
 WEBS 3-10=-298/214, 3-9=-637/712, 5-9=-637/712, 5-8=-298/214, 4-9=-941/761

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch 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 813 lb uplift at joint 2 and 813 lb uplift at joint 6.

LOAD CASE(S) Standard

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

REACTIONS (lb/size) 2=1220/0-3-8, 6=1220/0-3-8
Max Horz 2=-131(load case 6)
Max Uplift 2=-813(load case 5), 6=-813(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=1928/1885, 3-4=1317/1371, 4-5=1317/1371, 5-6=1928/1885, 6-7=0/47
BOT CHORD 2-10=1500/1644, 9-10=1500/1644, 8-9=1500/1644, 6-8=1500/1644
WEBS 3-10=302/217, 3-9=634/711, 4-9=951/771, 5-9=634/711, 5-8=302/217

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110 mph (3-second gust); $h=20ft$; $TCDL=4.2psf$; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber $DOL=1.60$ plate grip $DOL=1.60$. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 813 lb uplift at joint 2 and 813 lb uplift at joint 6.

LOAD CASE(S) Standard

Job

Truss

Truss Type

Qty

Ply

BRYAN ZECHER CONSTRUCTION

L149328

T21G

COMMON

1

1

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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-2-0-0

2-0-0

13-3-8

13-3-8

26-7-0

13-3-8

28-7-0

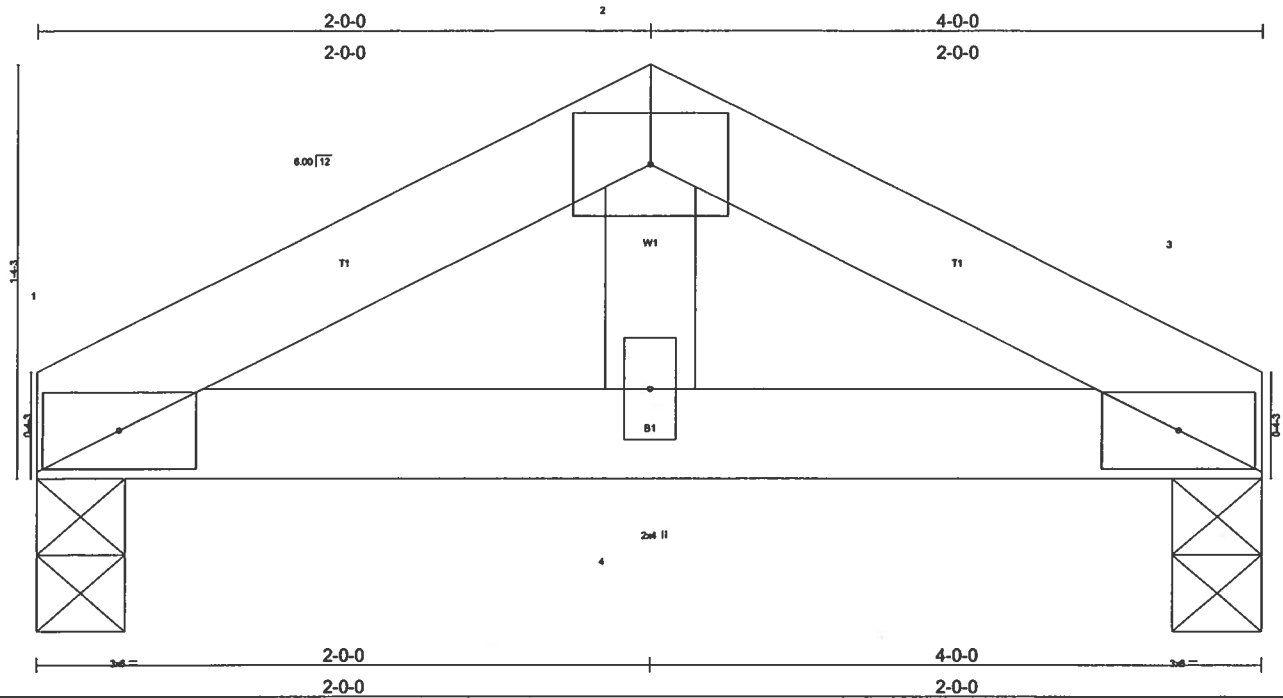
2-0-0

Scale = 1:50.2

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T22	COMMON	4x8 = 1	1	Job Reference (optional)

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2'-0"	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.10	Vert(LL) -0.00 4 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.06	Vert(TL) -0.00 4 >999 180		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.00 3 n/a n/a		
	Code FBC2004/TP12002			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 4'-0" oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (lb/size) 1=261/0-3-8, 3=261/0-3-8
 Max Horz 1=15(load case 3)
 Max Uplift 1=137(load case 4), 3=137(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-312/154, 2-3=-312/154
 BOT CHORD 1-4=-115/255, 3-4=-115/255
 WEBS 2-4=-88/187

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 1 and 137 lb uplift at joint 3.
- Girder carries tie-in span(s): 5'-0" from 0'-0" to 4'-0"
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

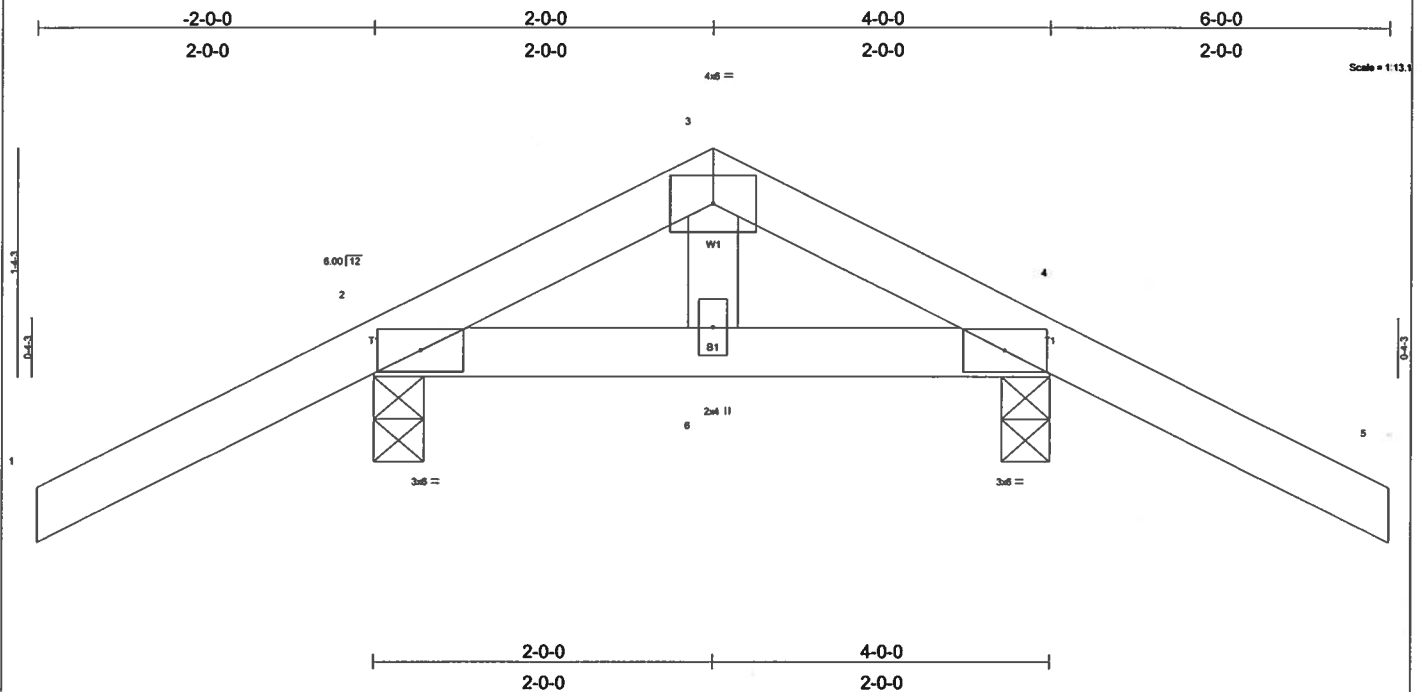
LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-54, 2-3=-54, 1-3=-87(F=-57)

Job	Truss	Truss Type	Qty	Ply	BRYAN ZECHER CONSTRUCTION
L149328	T23	COMMON	3	1	Job Reference (optional)

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LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.05	Vert(LL) -0.00 2 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.02	Vert(TL) -0.00 6 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 4 n/a n/a		
	Code FBC2004/TPI2002			Weight: 21 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 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

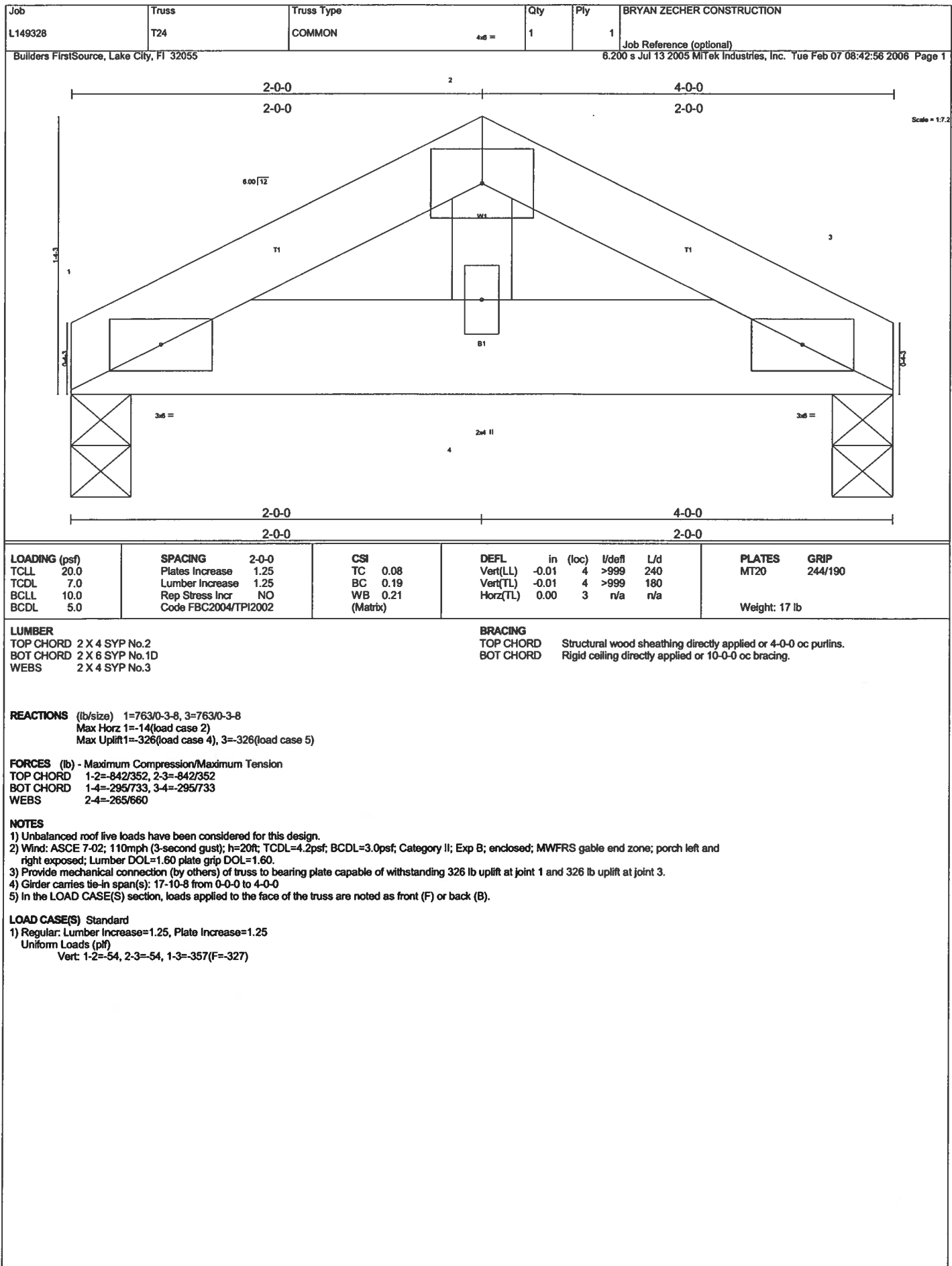
REACTIONS (lb/size) 2=272/0-3-8, 4=272/0-3-8
Max Horz 2=-52(load case 6)
Max Uplift 2=-246(load case 5), 4=-246(load case 6)
Max Grav 2=278(load case 9), 4=278(load case 10)

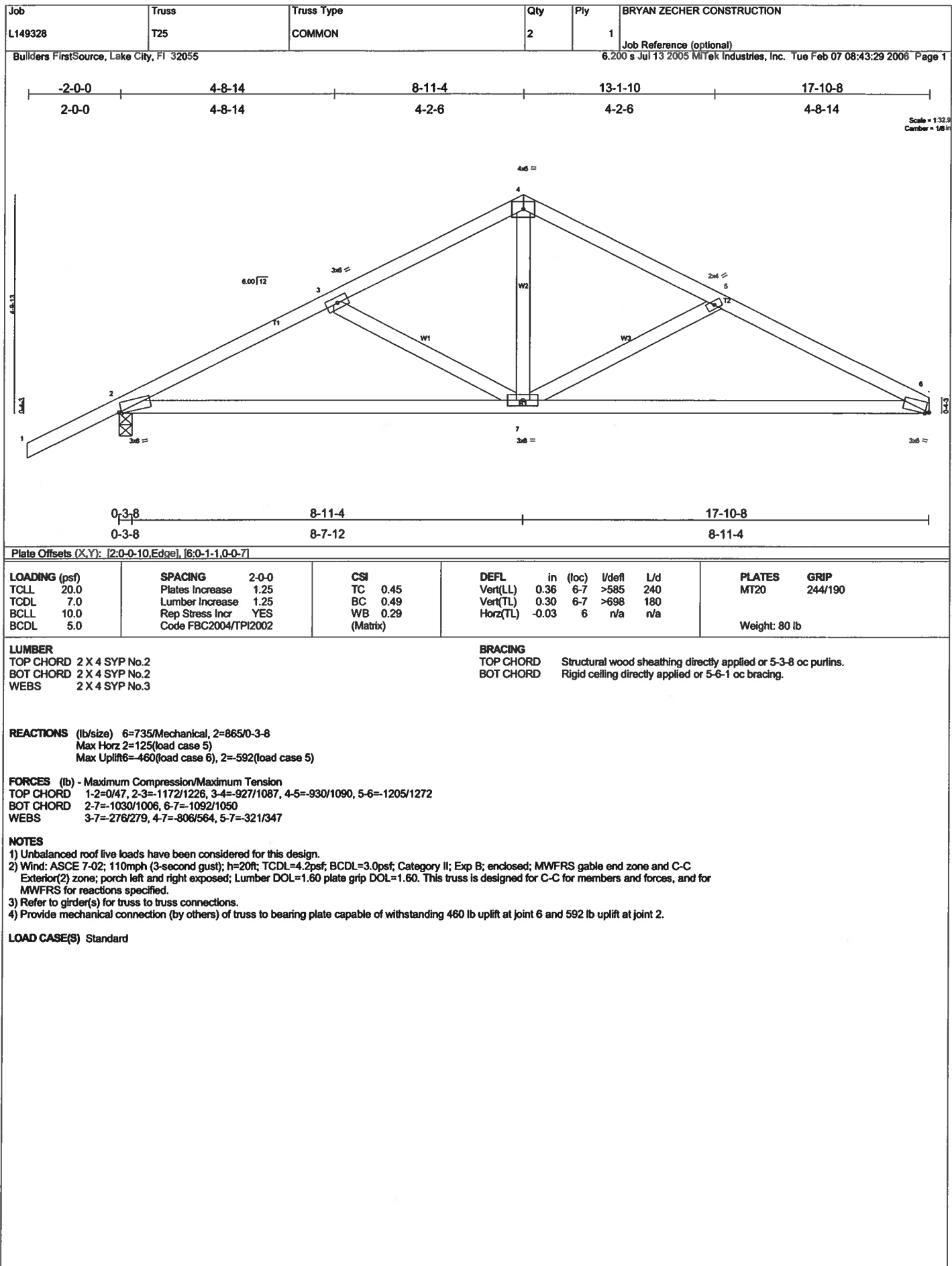
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-103/80, 3-4=-103/80, 4-5=0/47
BOT CHORD 2-6=0/99, 4-6=0/99
WEBS 3-6=-130/66

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 2 and 246 lb uplift at joint 4.

LOAD CASE(S) Standard





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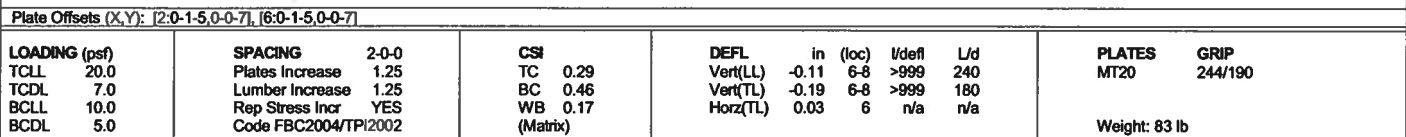
LUMBER		BRACING	
TOP CHORD	2 X 4 SYP No.2	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	2 X 4 SYP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2 X 4 SYP No.3		

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-15/99, 2-3=-105/123, 3-4=-119/316, 4-5=-21/218, 5-6=0/259, 6-7=0/259, 7-8=0/218, 8-9=-83/316, 9-10=-69/123, 10-11=-15/99
BOT CHORD 2-16=-180/182, 15-16=-180/182, 14-15=-180/182, 13-14=-180/182, 12-13=-180/182, 10-12=-180/182
WEBS 6-14=-440/105, 5-15=-140/109, 4-16=-449/281, 7-13=-140/109, 8-12=-449/281

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); $h=20ft$; $TCDF=4.2psf$; $BCDF=3.0psf$; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 2, 285 lb uplift at joint 10, 92 lb uplift at joint 14, 91 lb uplift at joint 15, 230 lb uplift at joint 16, 87 lb uplift at joint 13 and 234 lb uplift at joint 12.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-114(F=-60), 6-11=-114(F=-60), 2-10=-30

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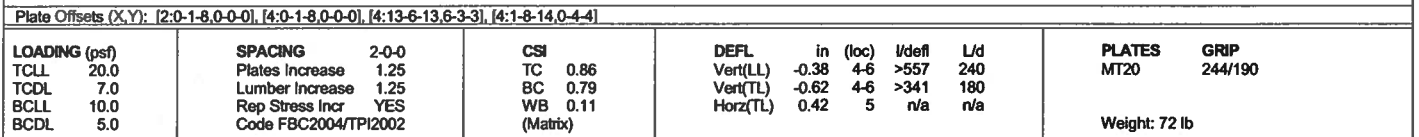
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-7-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-1150/482, 3-4=-902/377, 4-5=-902/377, 5-6=-1150/482, 6-7=0/47
BOT CHORD 2-8=-289/988, 6-8=-269/988
WEBS 3-8=279/212, 4-8=-127/529, 5-8=-279/212

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCFL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2 and 367 lb uplift at joint 6.

LOAD CASE(S) Standard



LOAD CASE(S) Standard